

Toward Evaluating Material Design Interface Paradigms for Novice Users

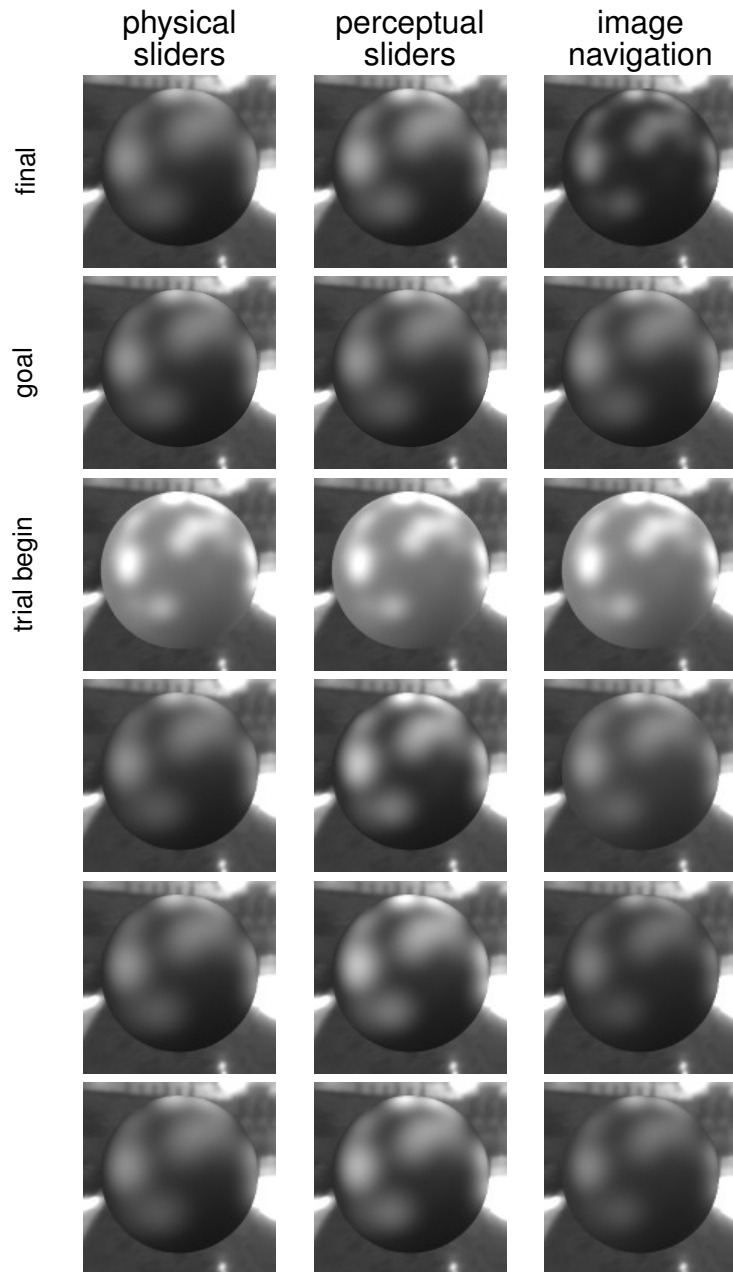
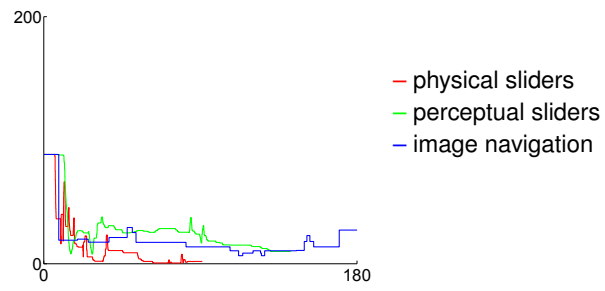
William B. Kerr Fabio Pellacini
Dartmouth College

**Subjects editing materials with three
material design interfaces**

Subject 1

Trial 1

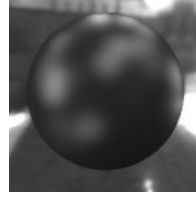
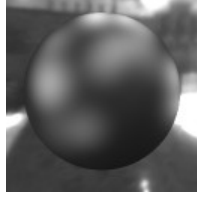
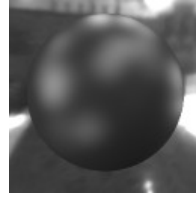
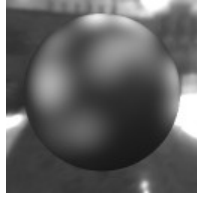
Error Over Time



physical
sliders

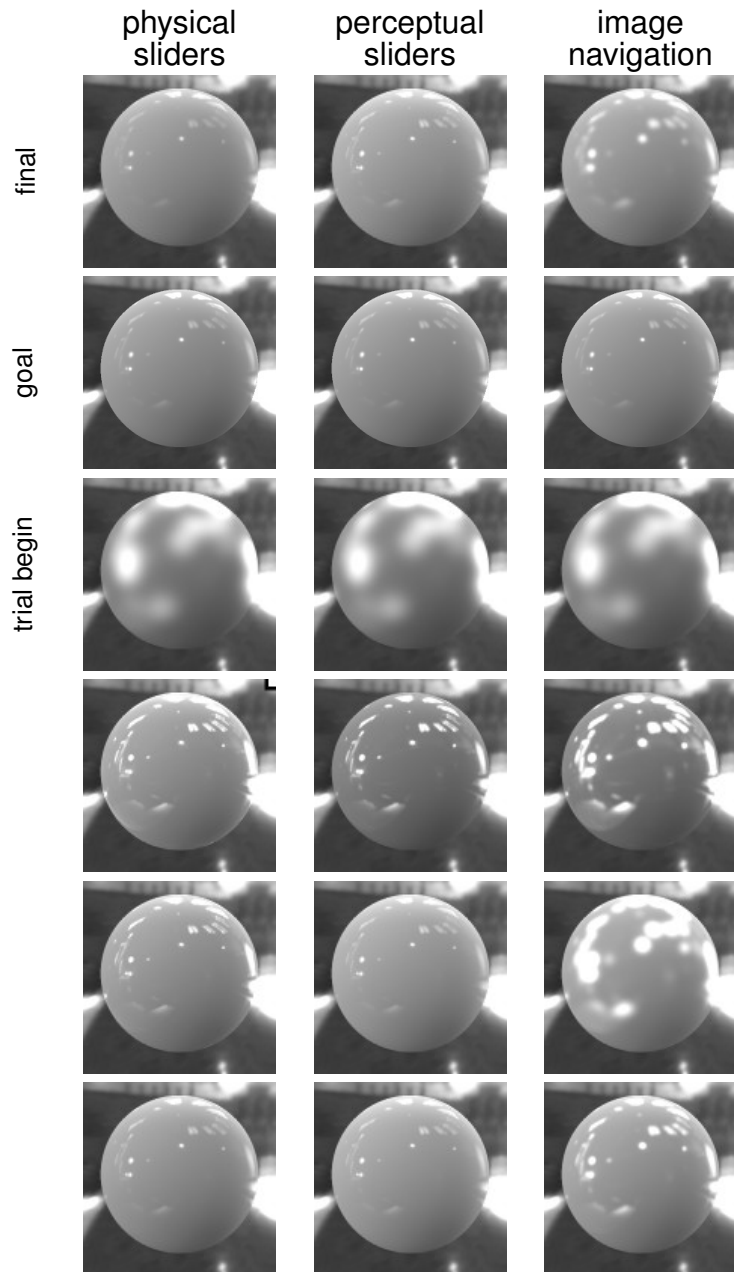
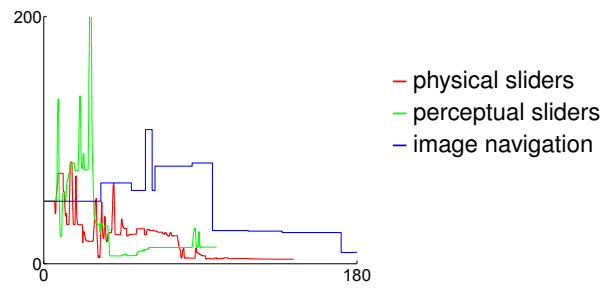
perceptual
sliders

image
navigation

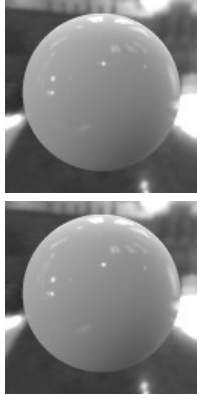


Trial 2

Error Over Time

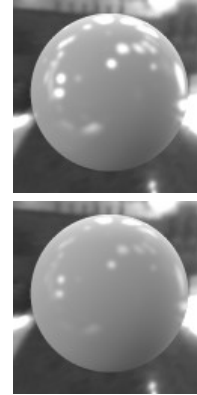


physical
sliders



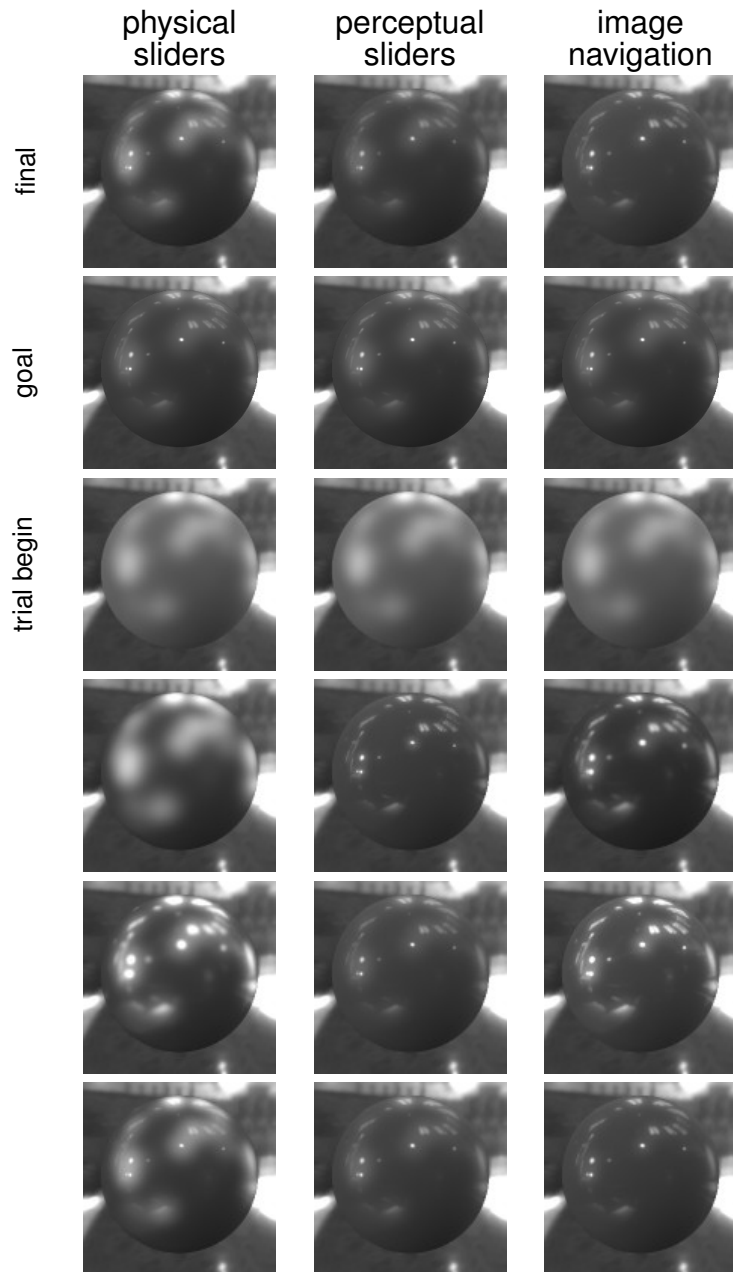
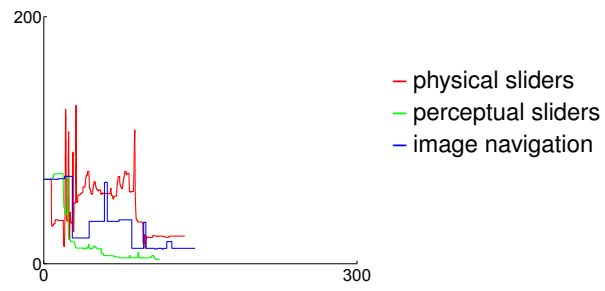
perceptual
sliders

image
navigation

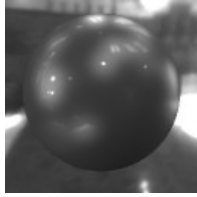


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

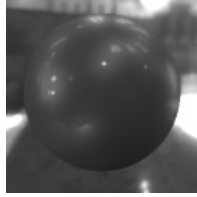
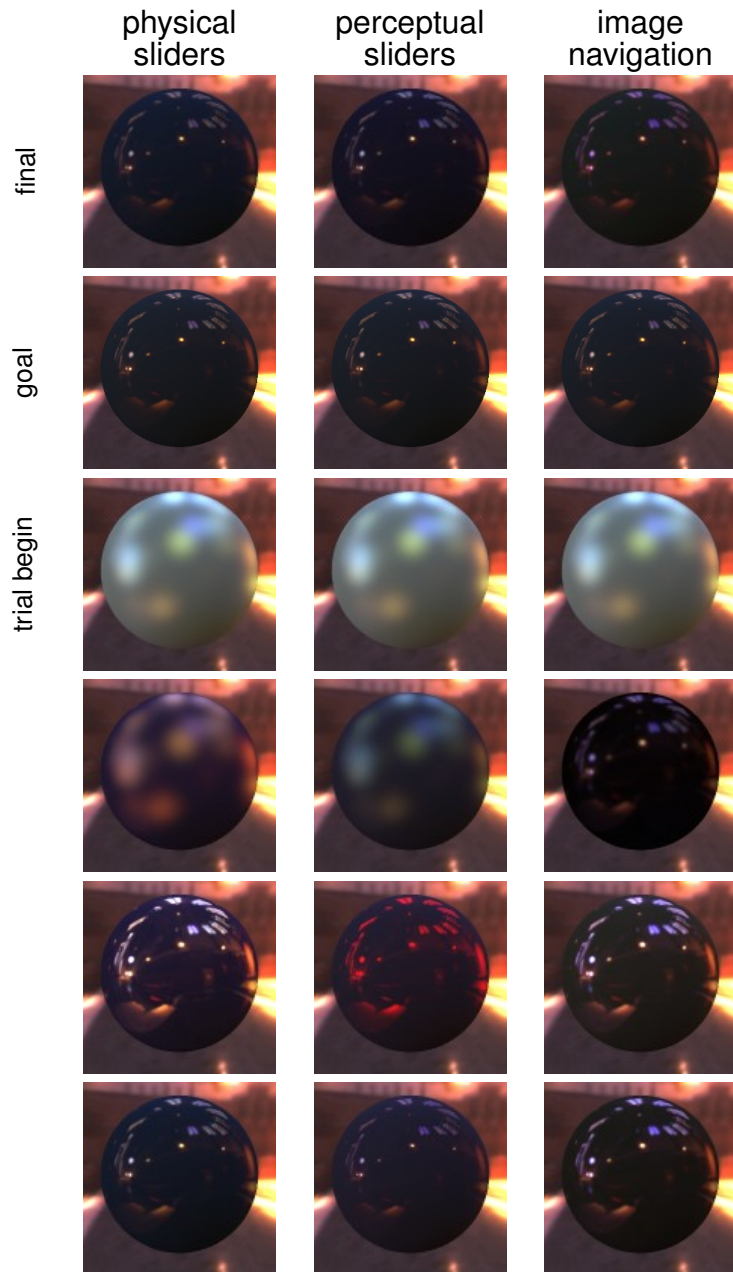
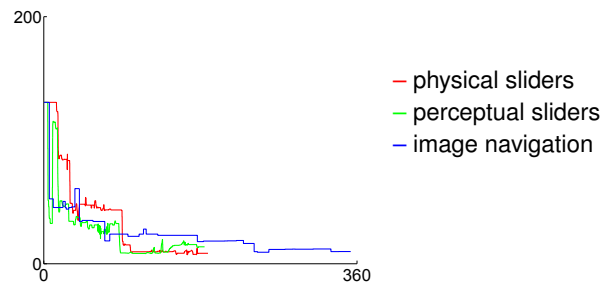


image
navigation

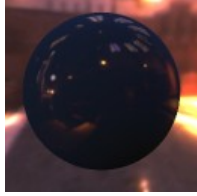
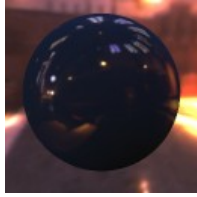


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

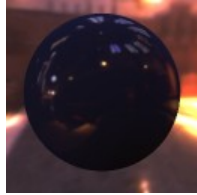
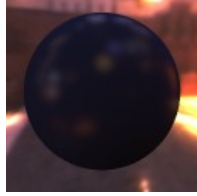
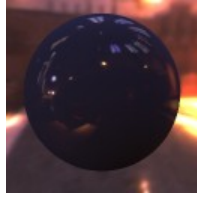
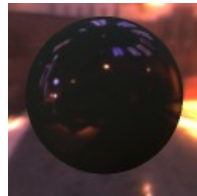
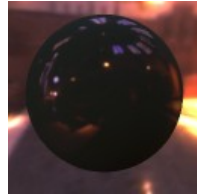
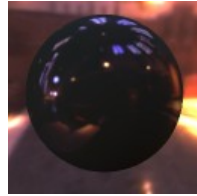
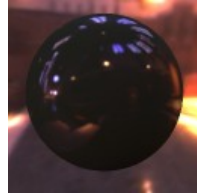
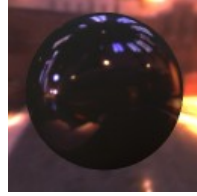
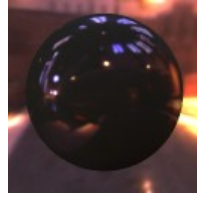


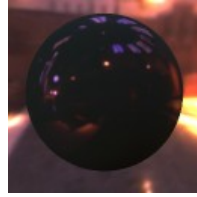
image
navigation



physical
sliders

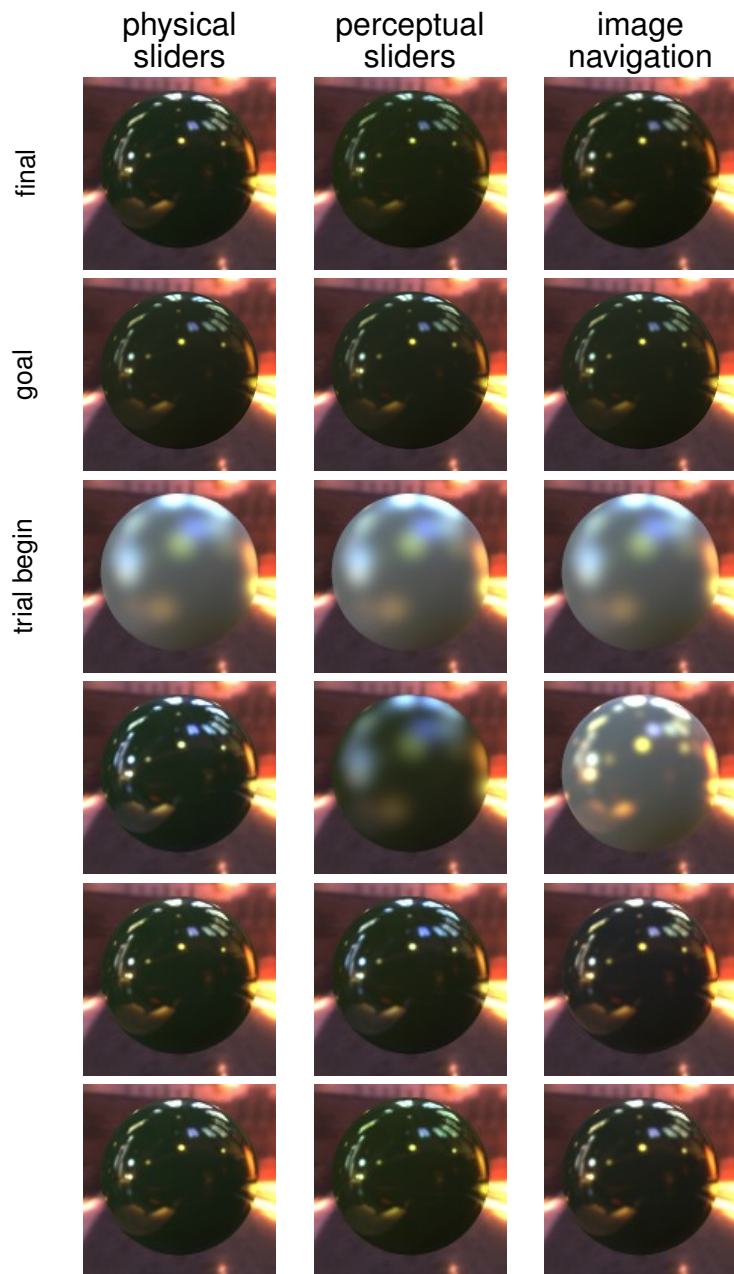
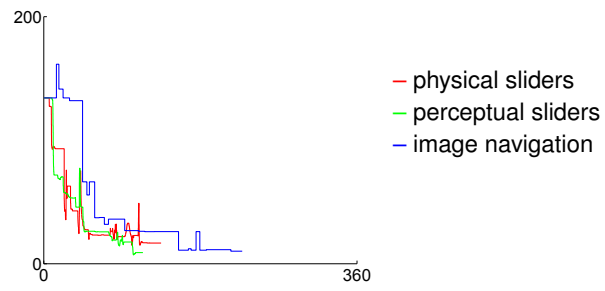
perceptual
sliders

image
navigation

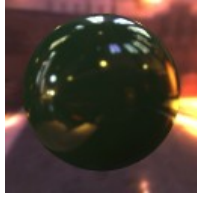


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

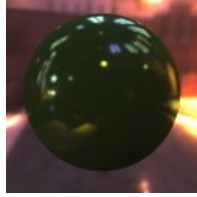
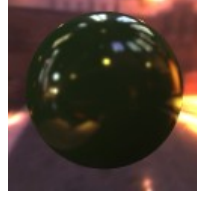
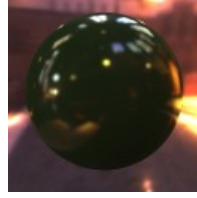
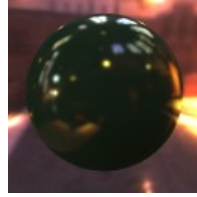
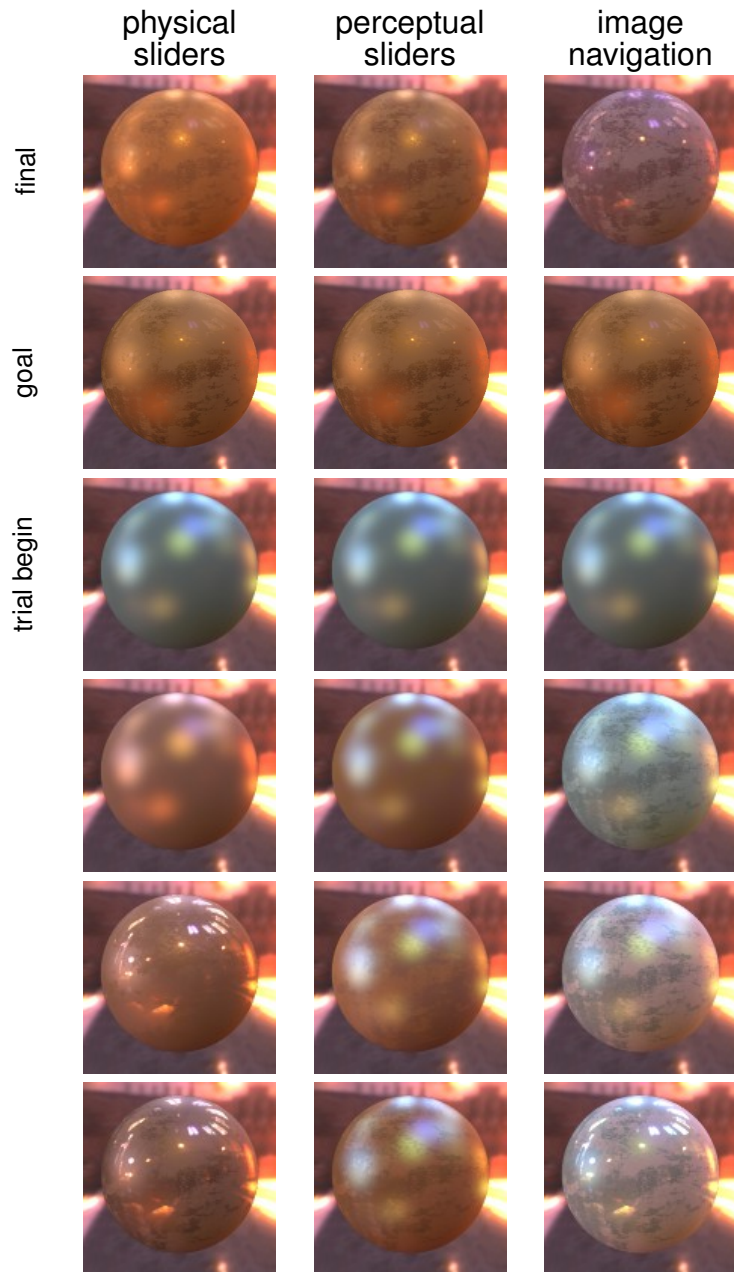
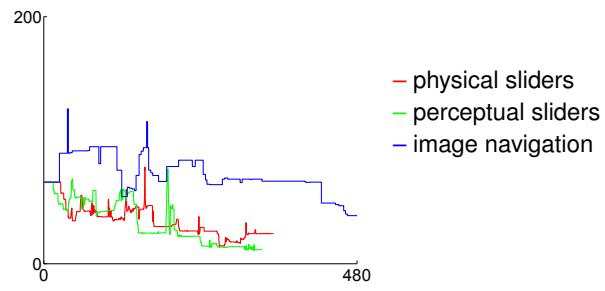


image
navigation



Trial 6

Error Over Time



physical
sliders



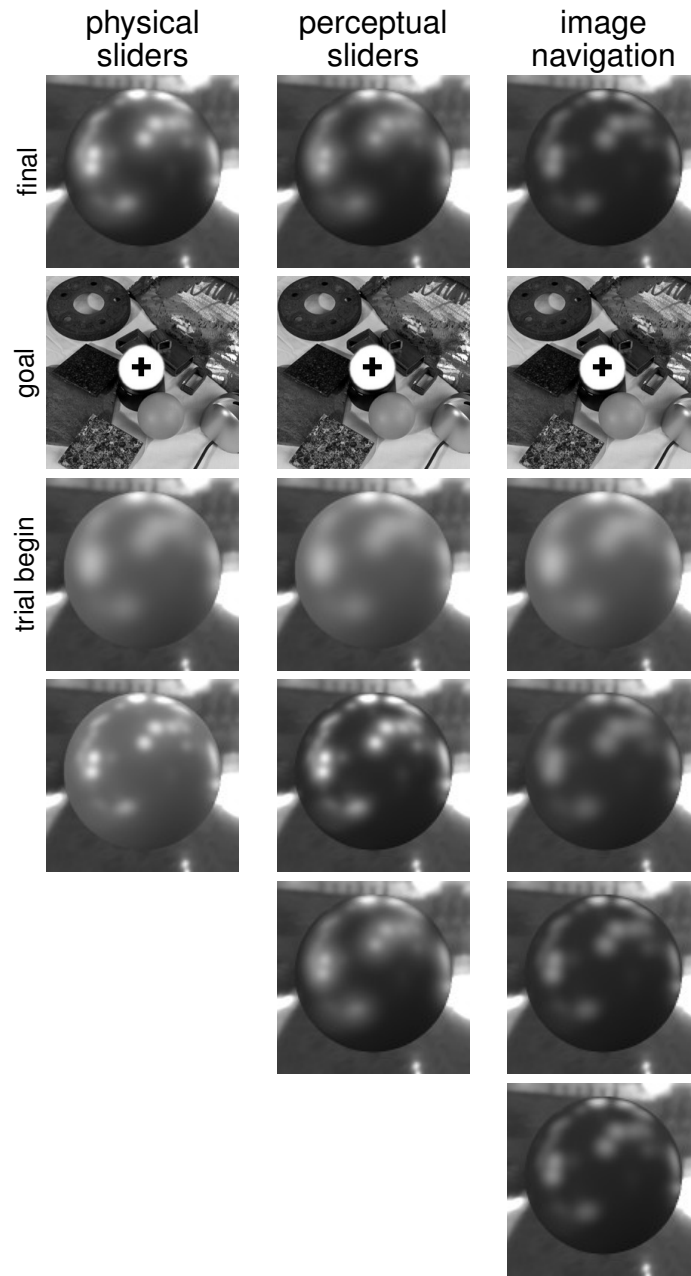
perceptual
sliders



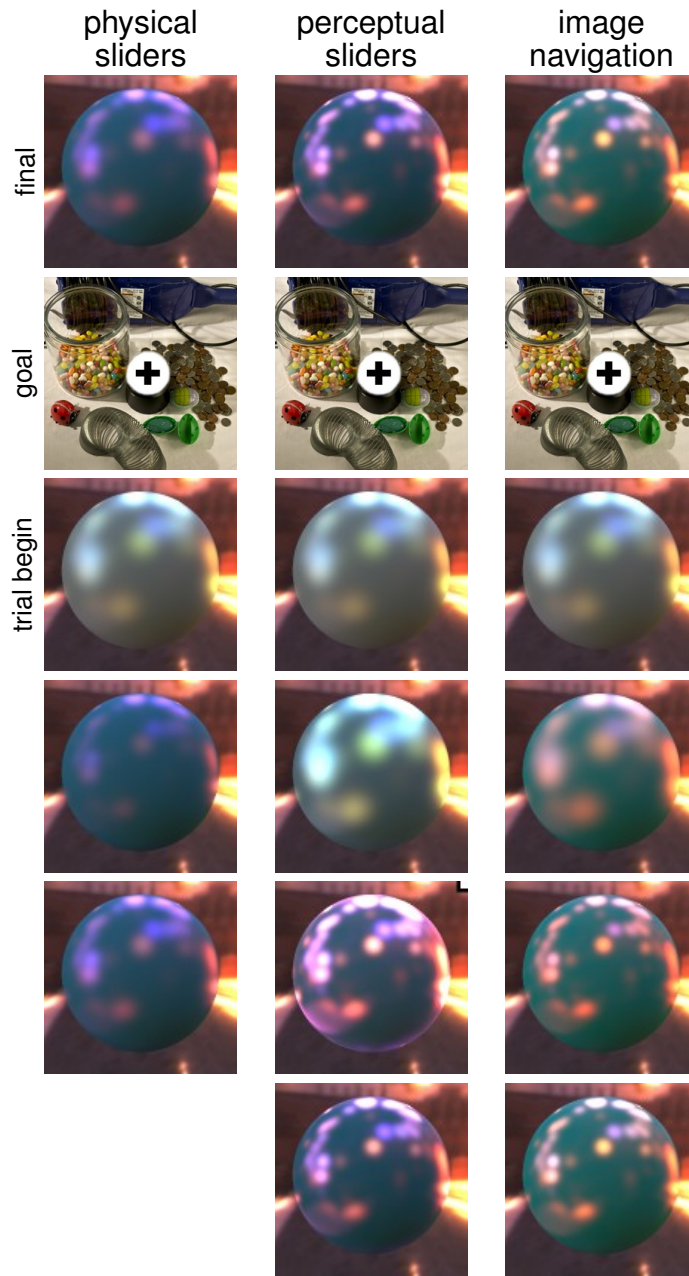
image
navigation



Trial 7



Trial 8



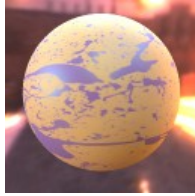
Trial 9

physical
sliders

perceptual
sliders

image
navigation

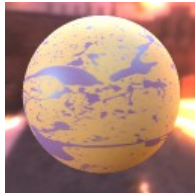
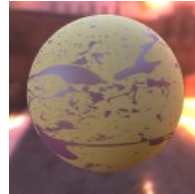
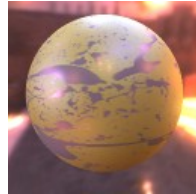
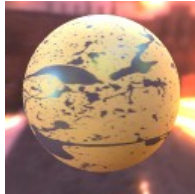
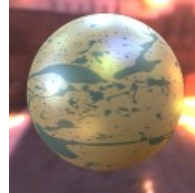
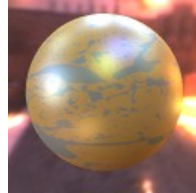
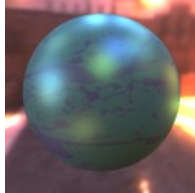
final



goal



trial
begin



physical
sliders

perceptual
sliders

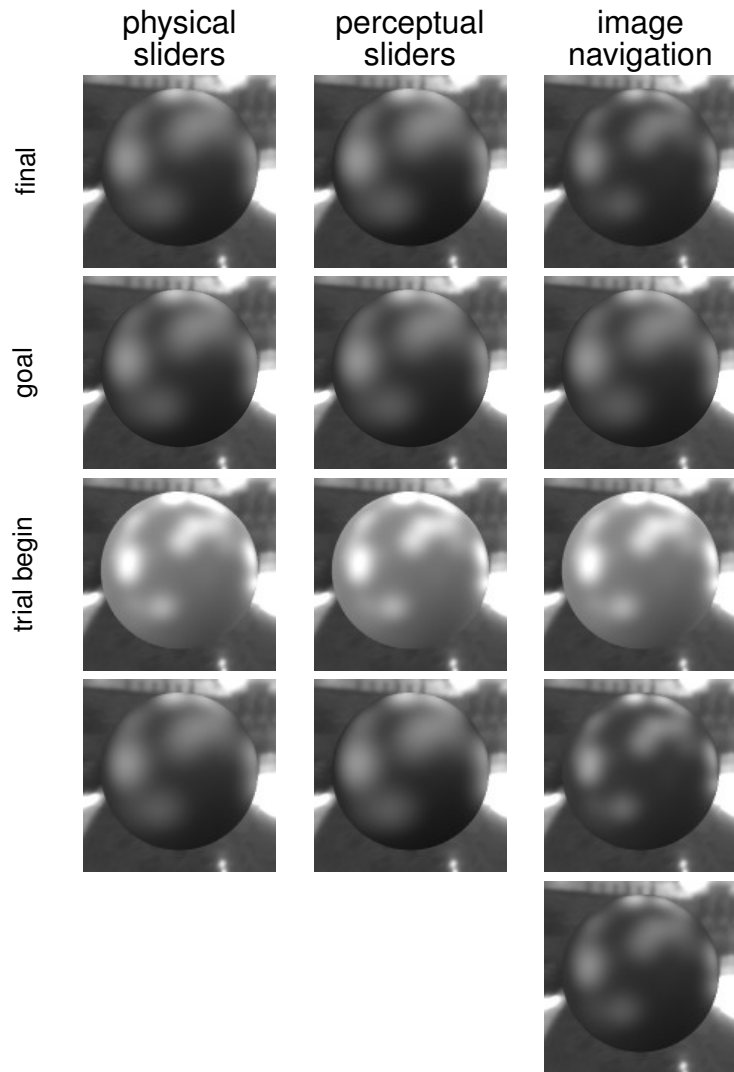
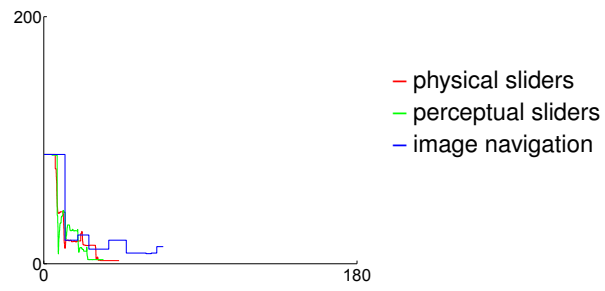
image
navigation



Subject 2

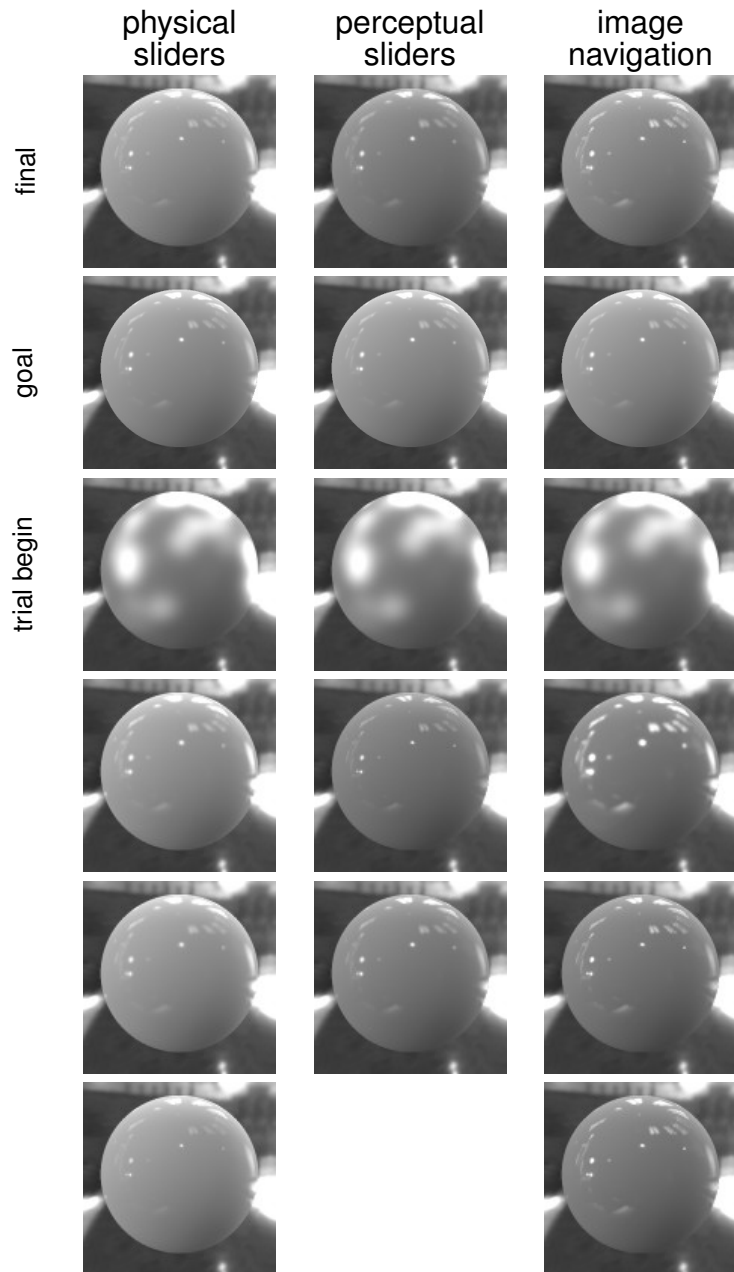
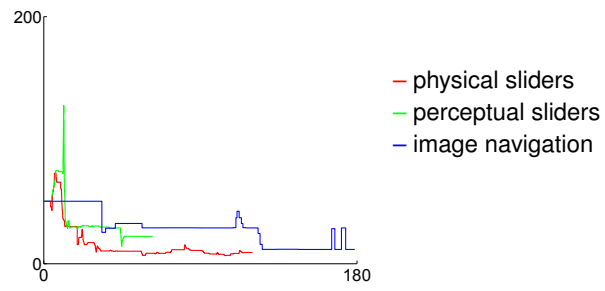
Trial 1

Error Over Time



Trial 2

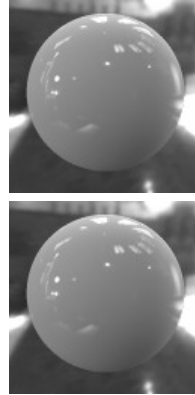
Error Over Time



physical
sliders

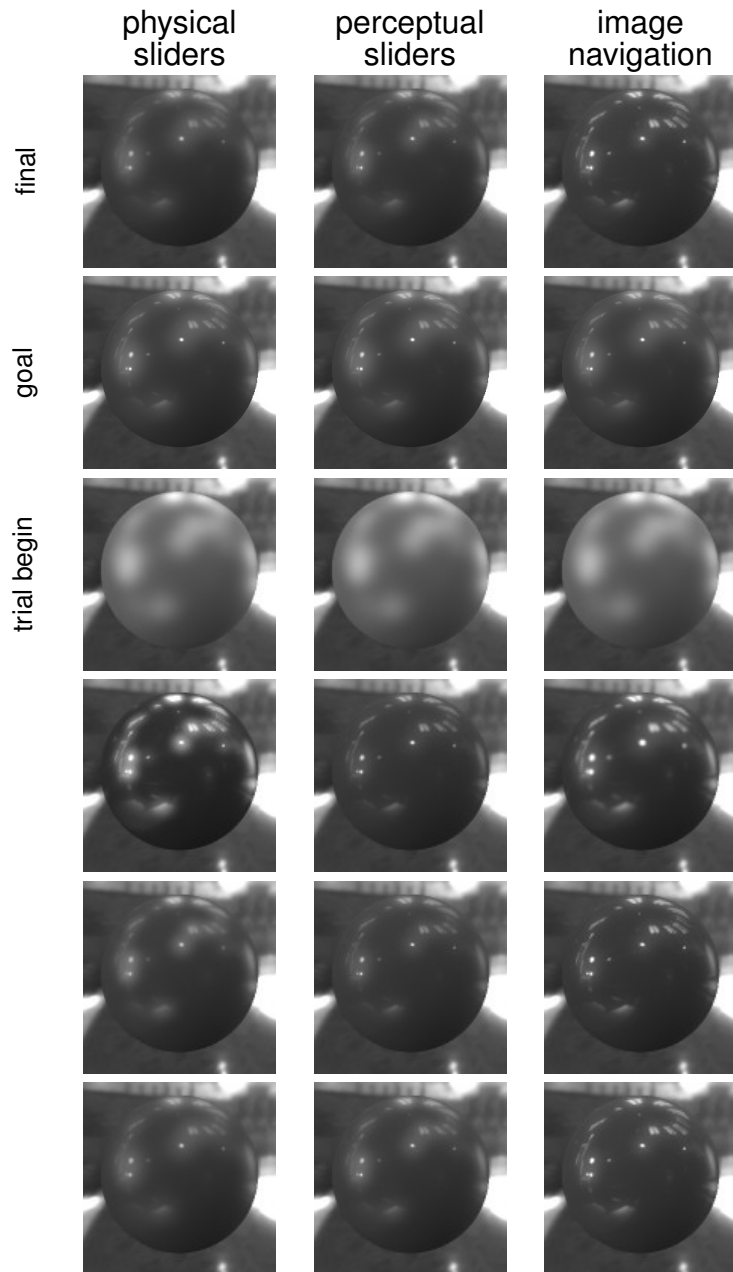
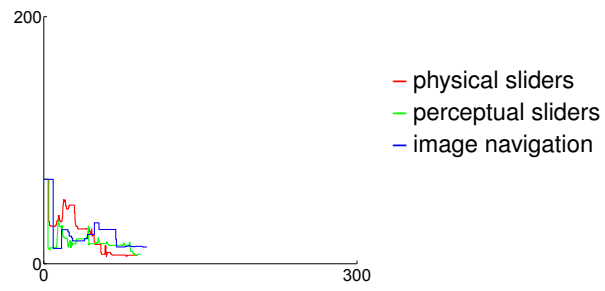
perceptual
sliders

image
navigation



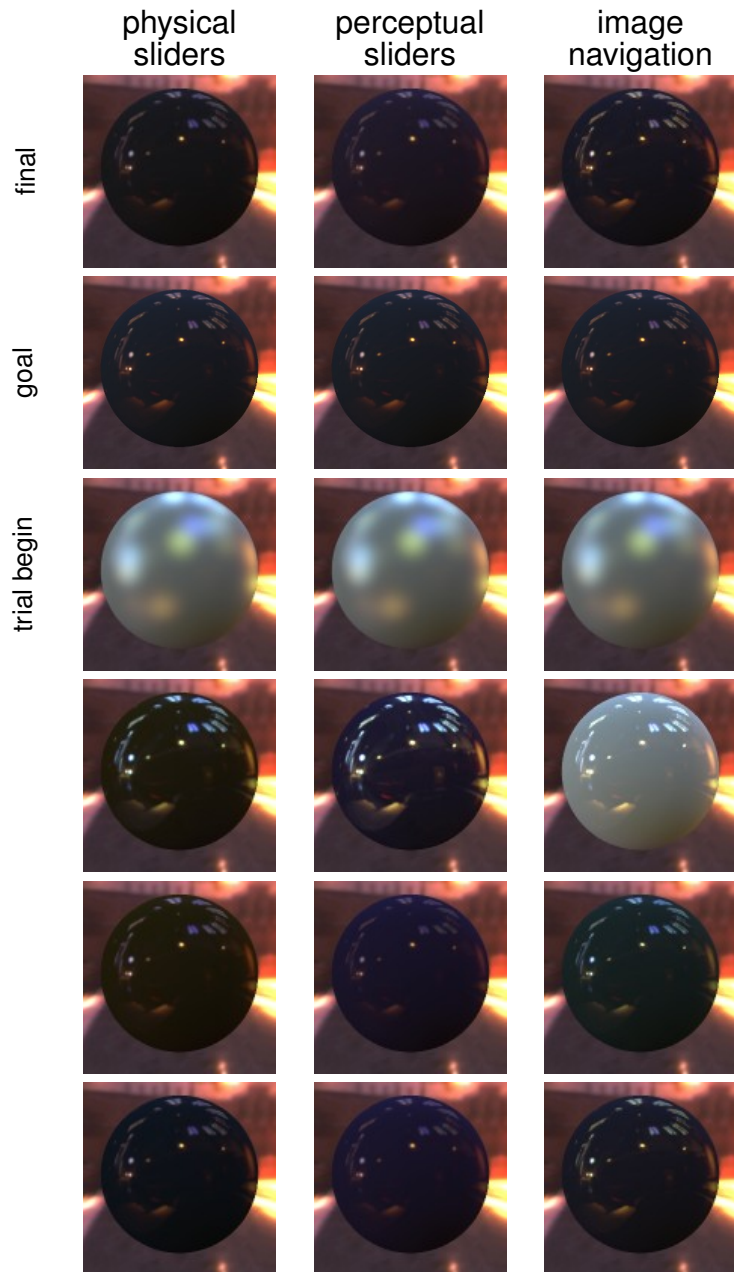
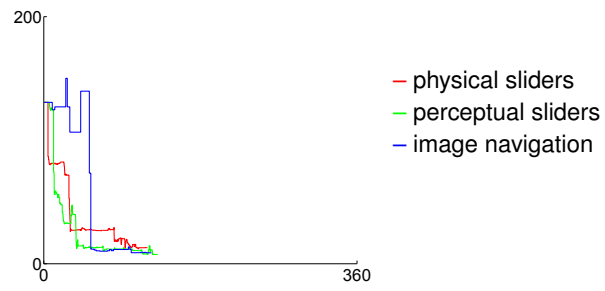
Trial 3

Error Over Time

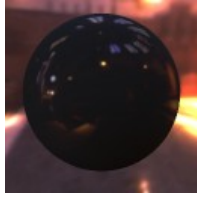


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

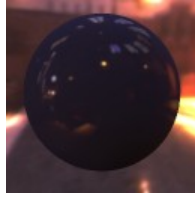
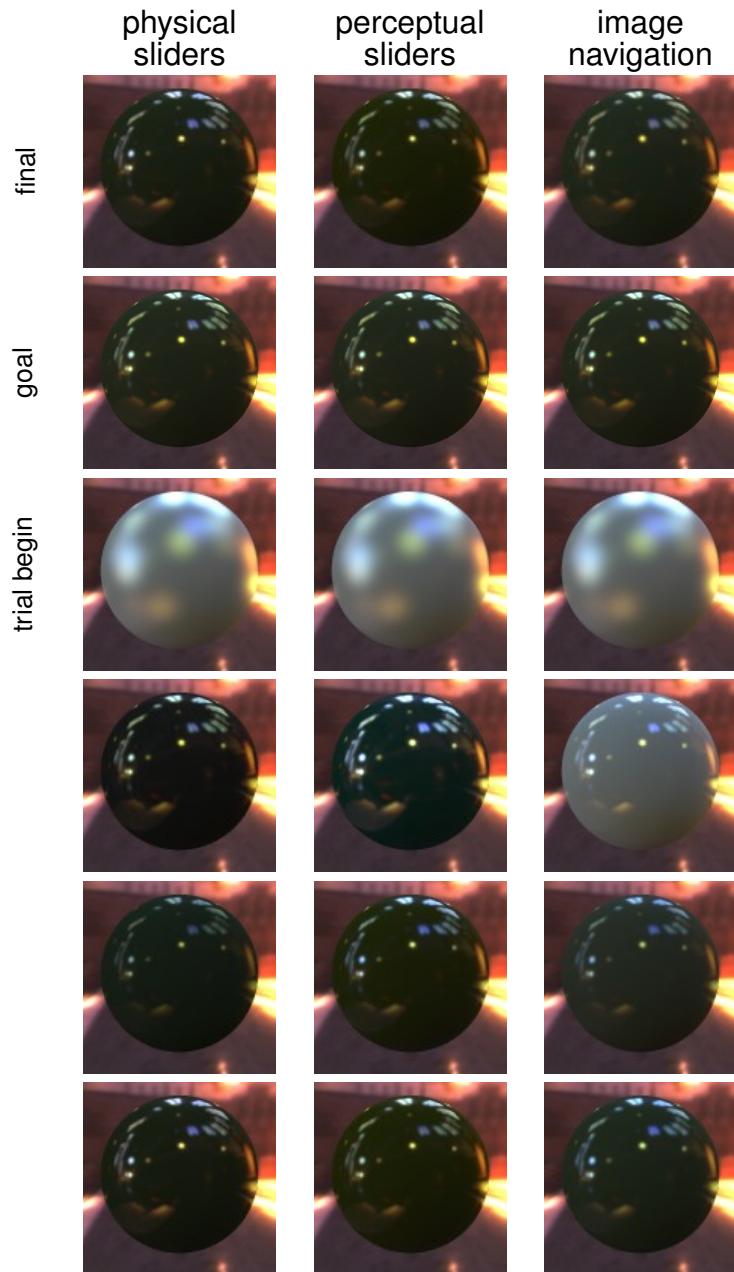
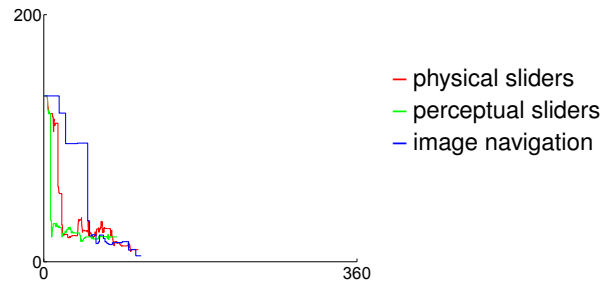


image
navigation

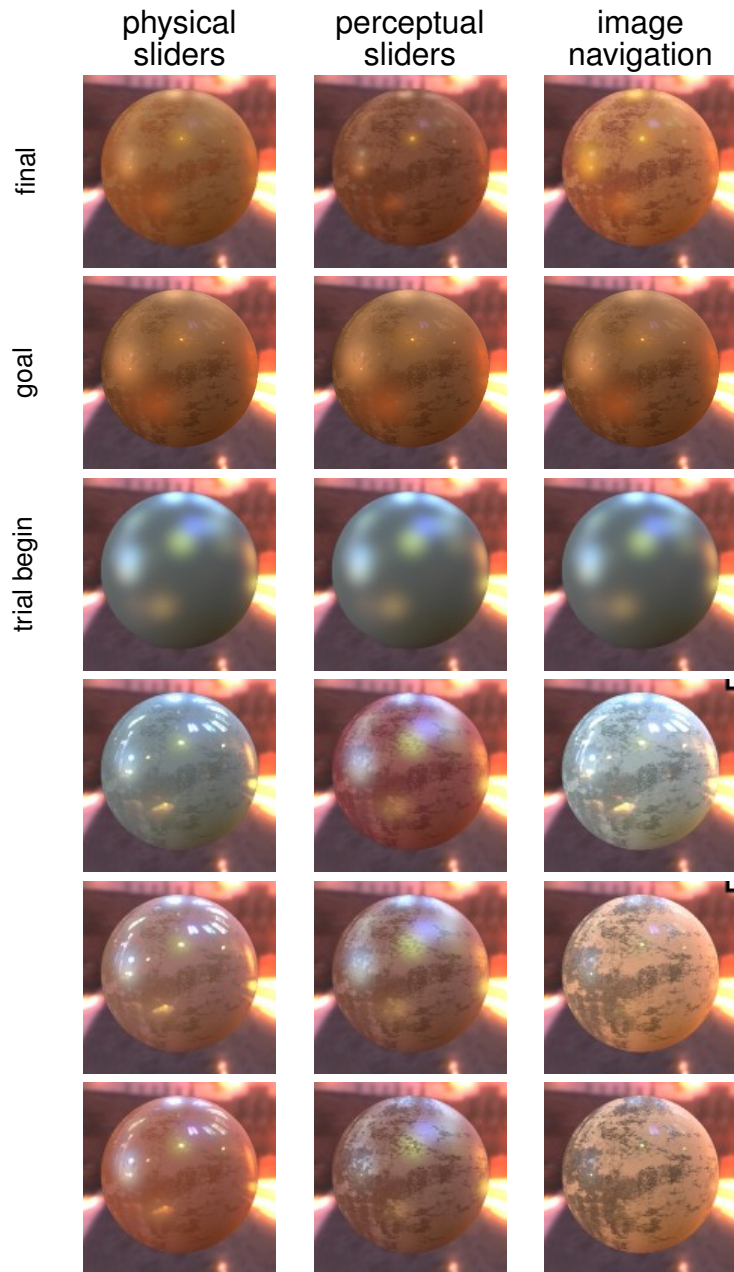
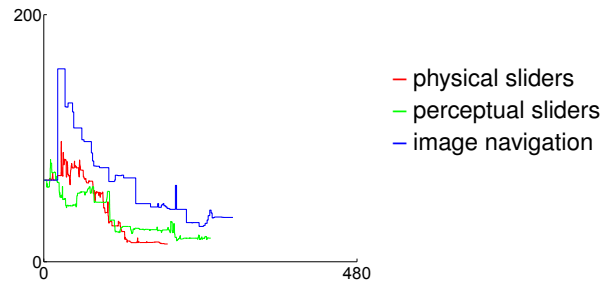
Trial 5

Error Over Time



Trial 6

Error Over Time



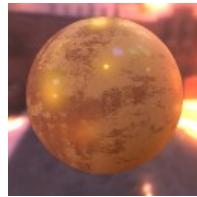
physical
sliders



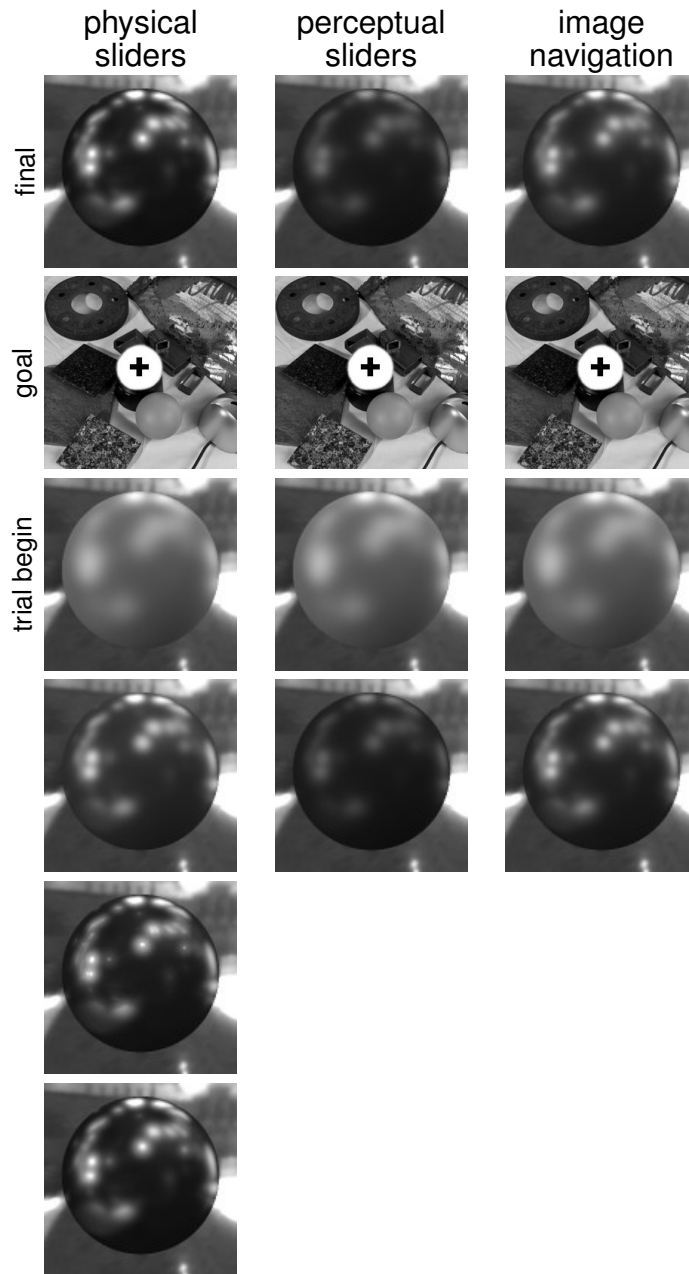
perceptual
sliders



image
navigation



Trial 7



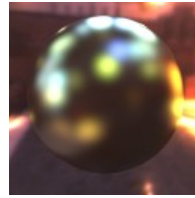
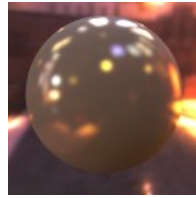
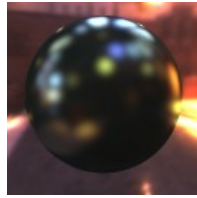
Trial 8

physical
sliders

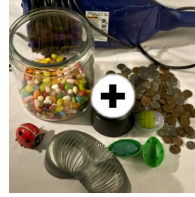
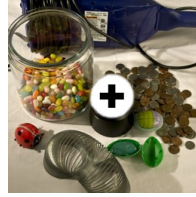
perceptual
sliders

image
navigation

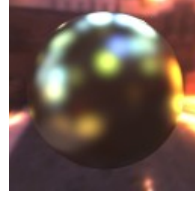
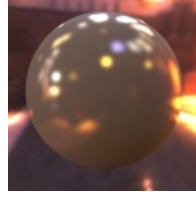
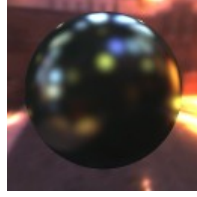
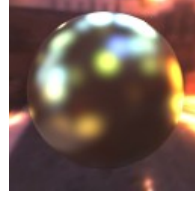
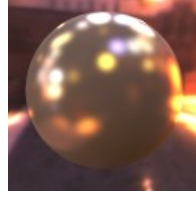
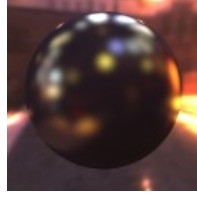
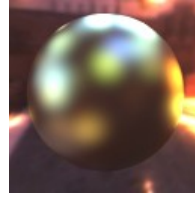
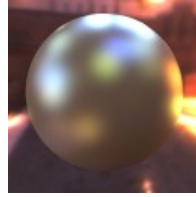
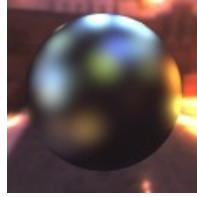
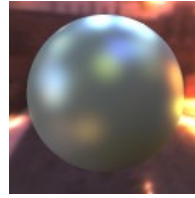
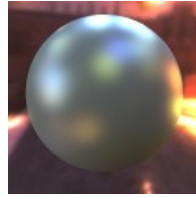
final



goal



trial
begin



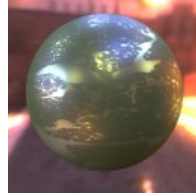
Trial 9

physical
sliders

perceptual
sliders

image
navigation

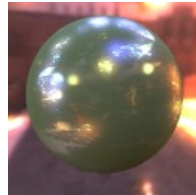
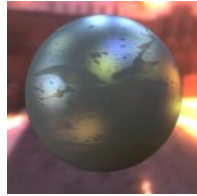
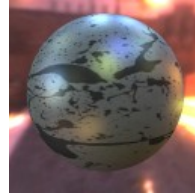
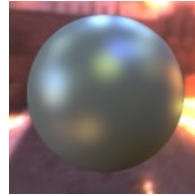
final



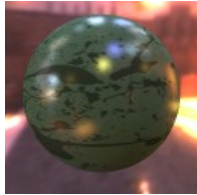
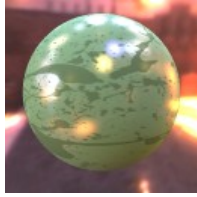
goal



trial
begin



physical
sliders



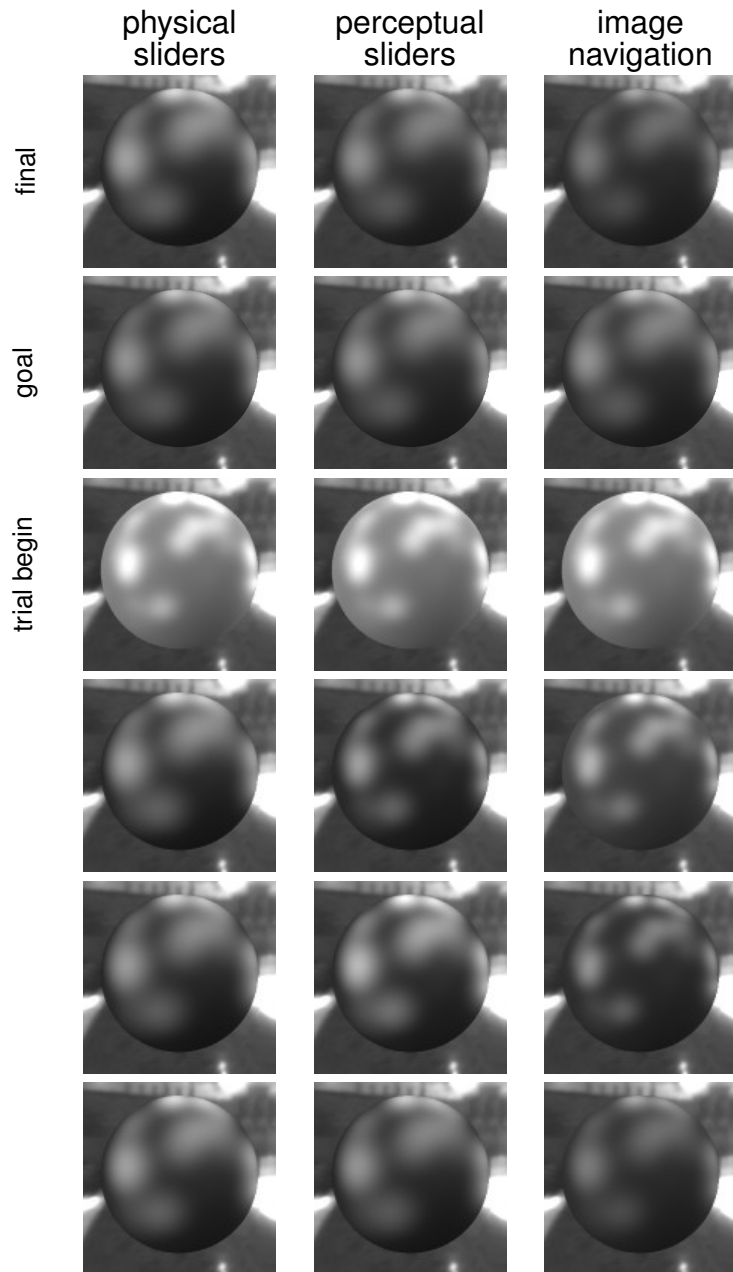
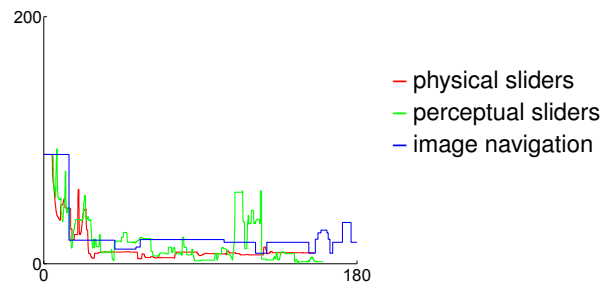
perceptual
sliders

image
navigation

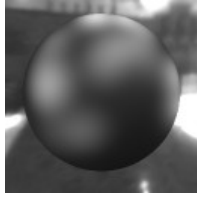
Subject 3

Trial 1

Error Over Time



physical
sliders



perceptual
sliders

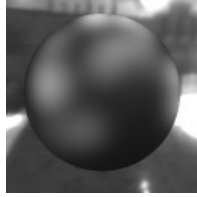
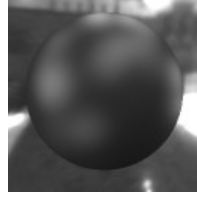
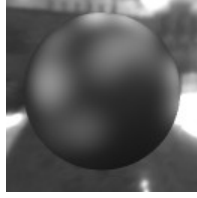
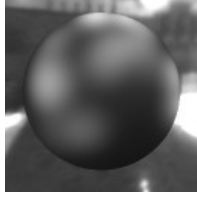
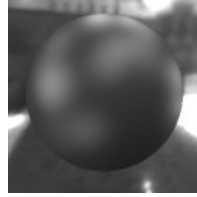
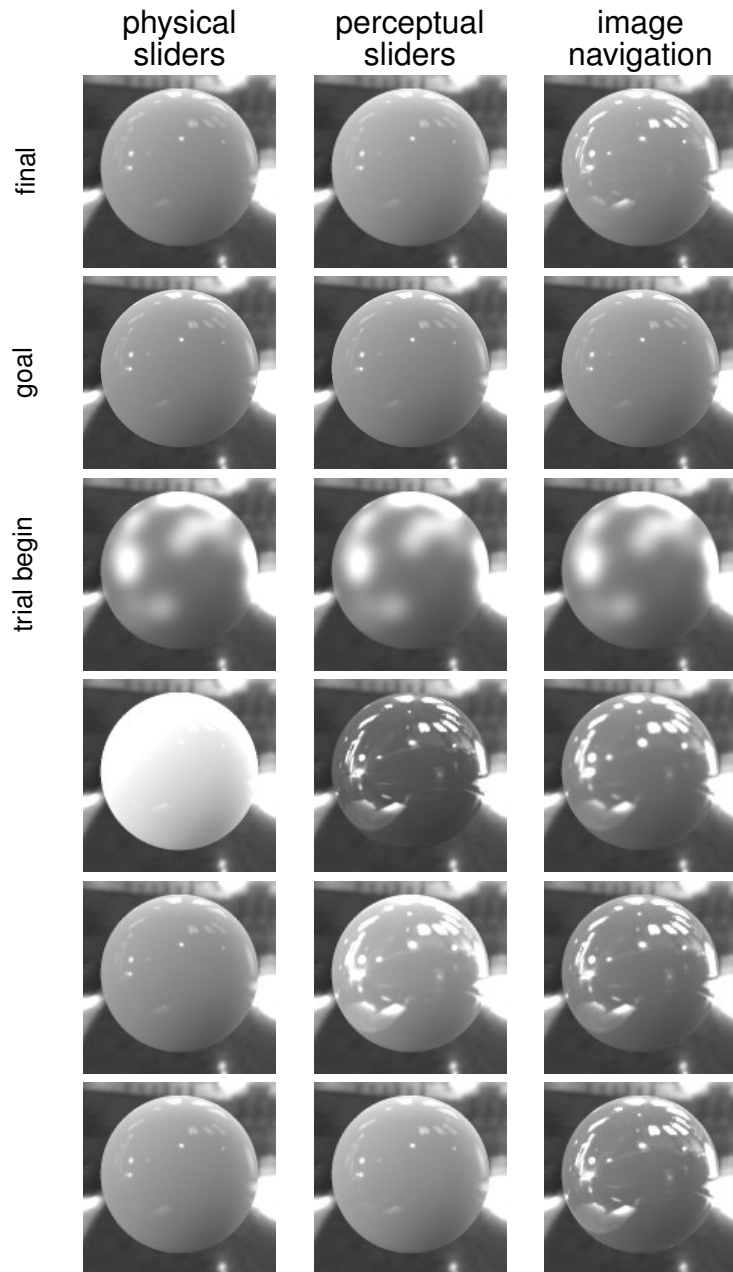
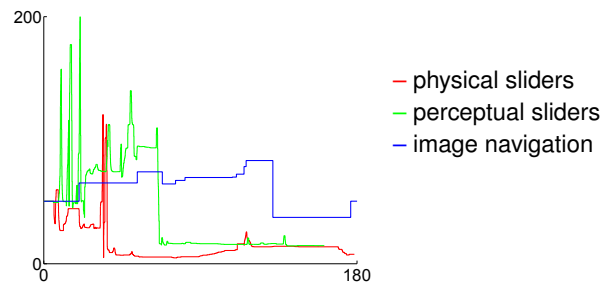


image
navigation

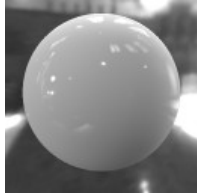


Trial 2

Error Over Time



physical
sliders



perceptual
sliders

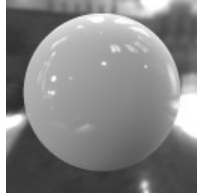
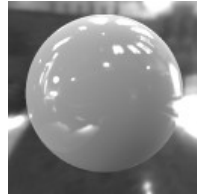
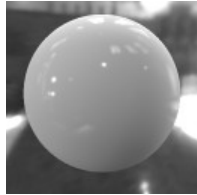
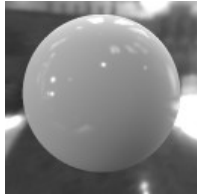
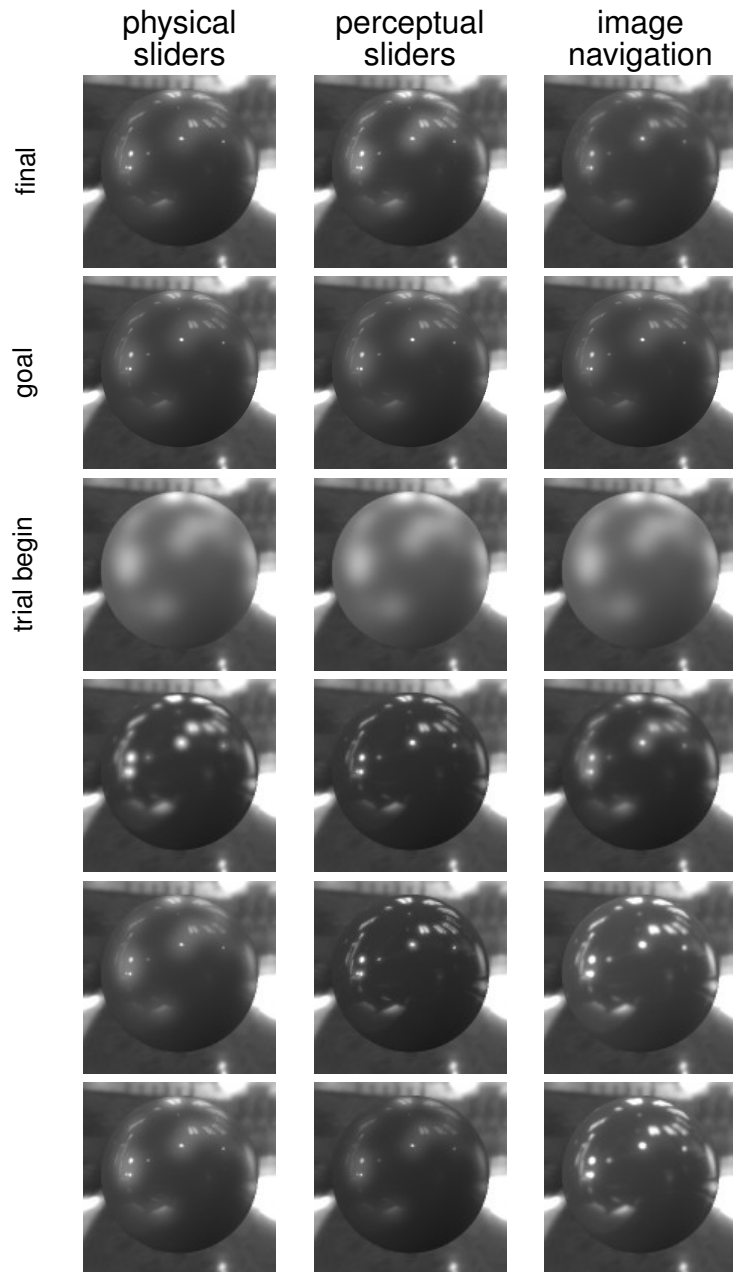
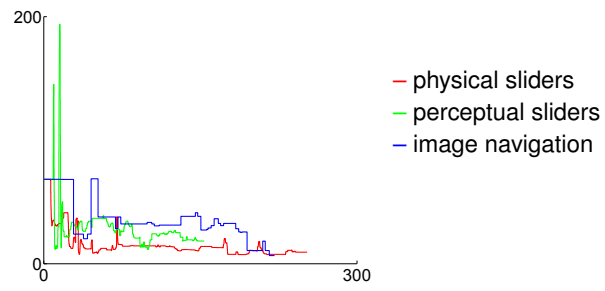


image
navigation

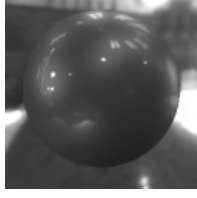
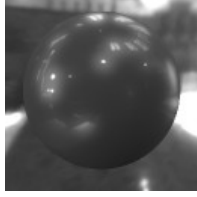
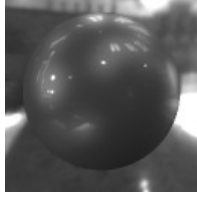
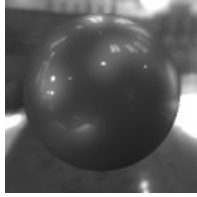


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

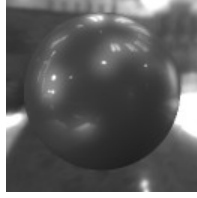
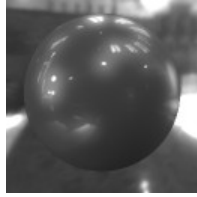
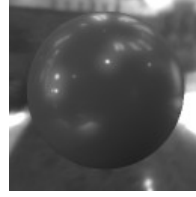
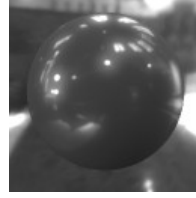
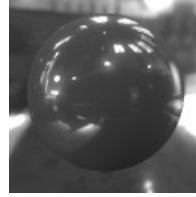
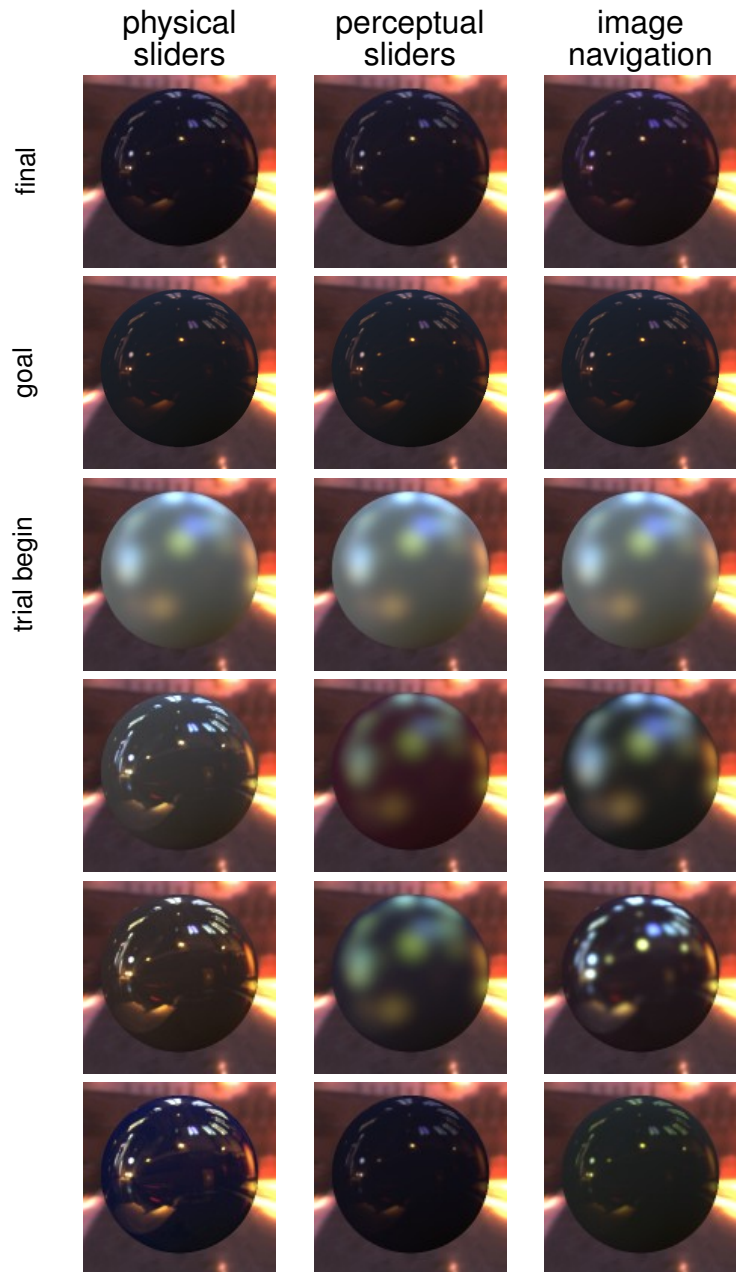
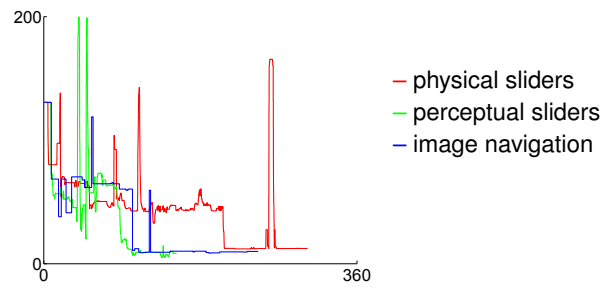


image
navigation

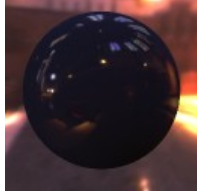
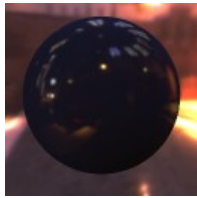
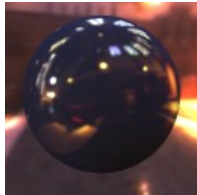
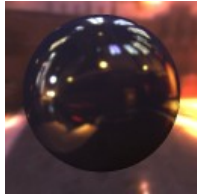
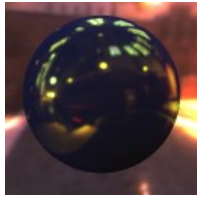


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

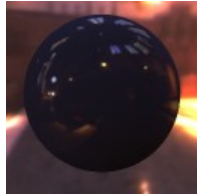
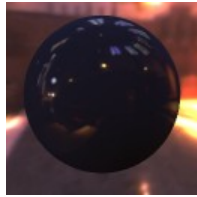
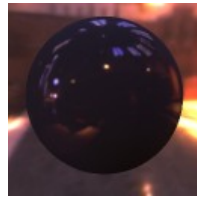
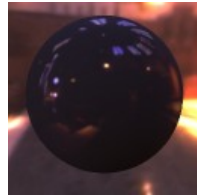
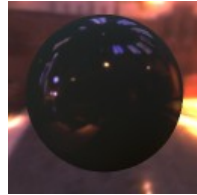
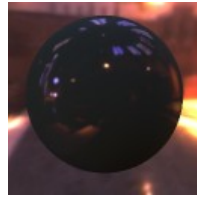
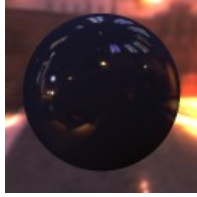


image
navigation



physical
sliders

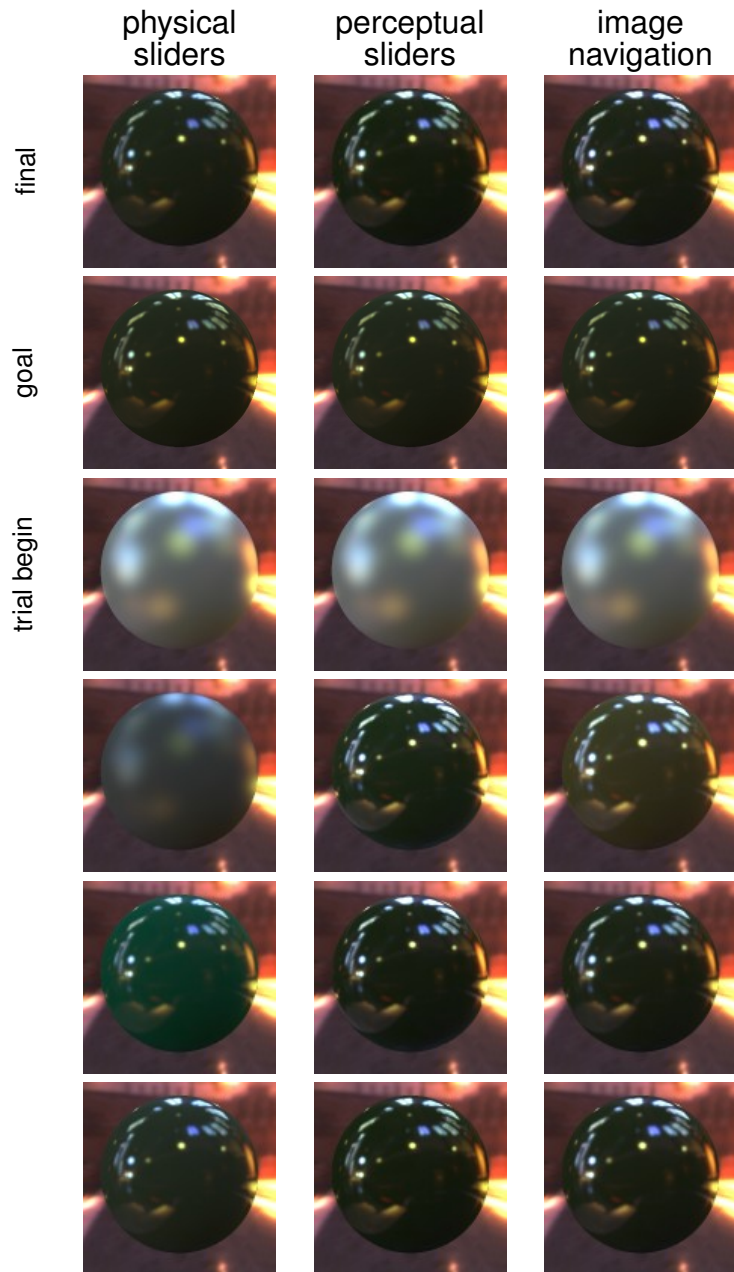
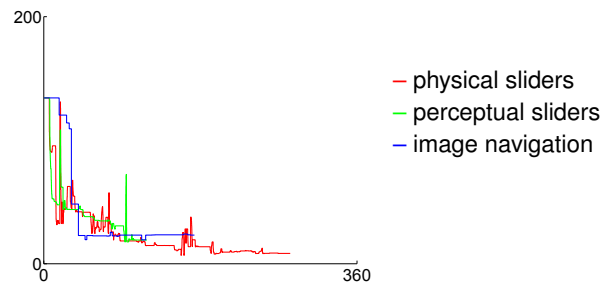


perceptual
sliders

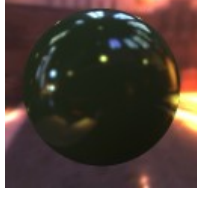
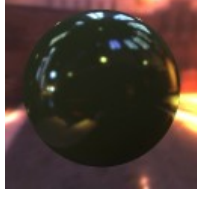
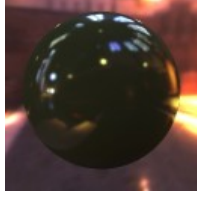
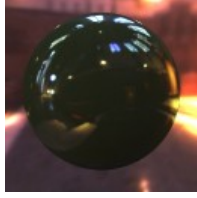
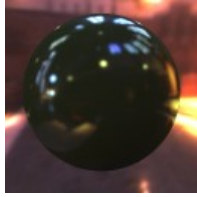
image
navigation

Trial 5

Error Over Time



physical
sliders



perceptual
sliders

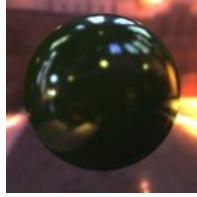
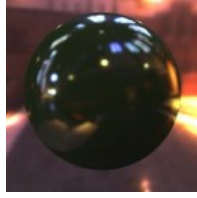
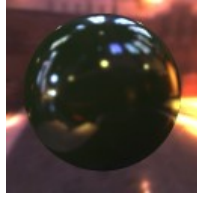
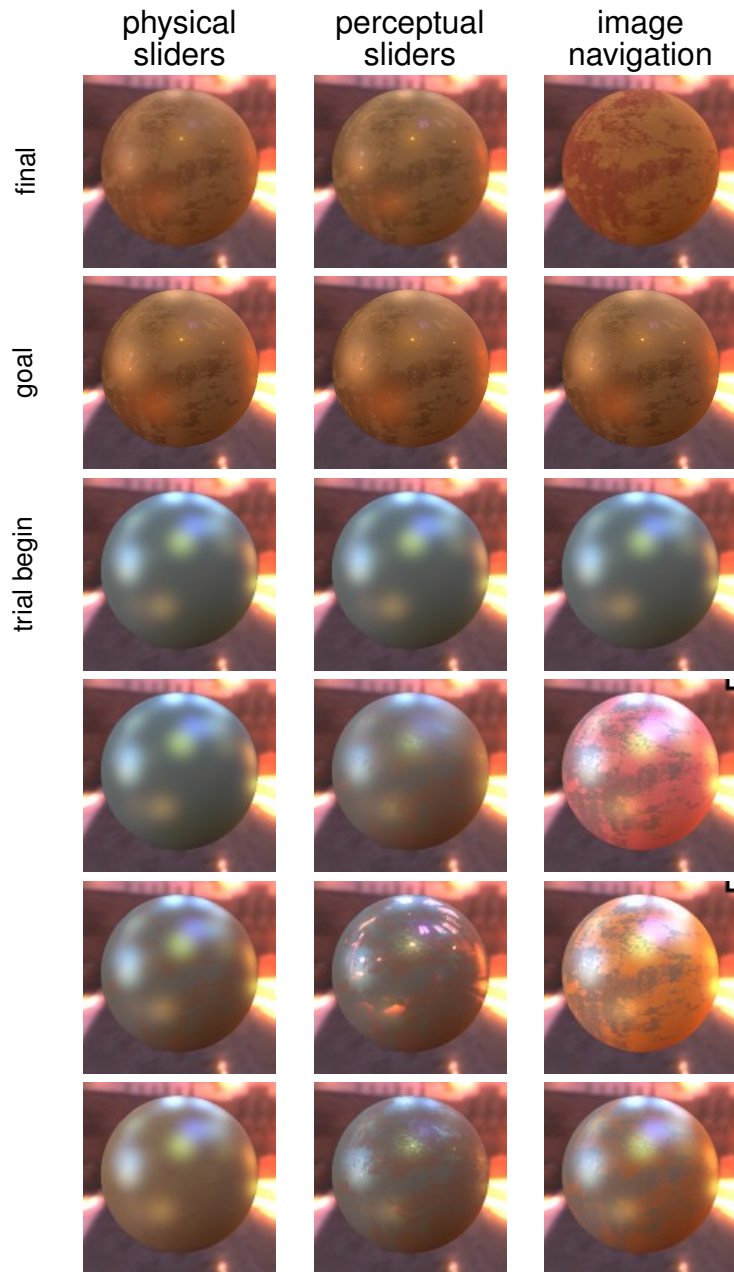
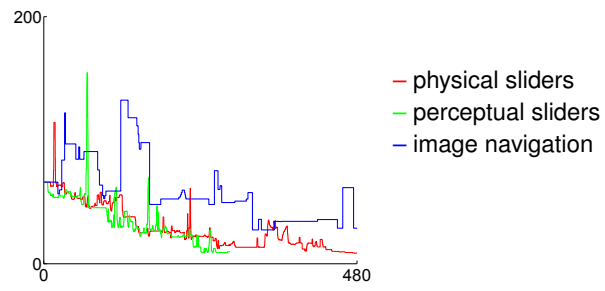


image
navigation



Trial 6

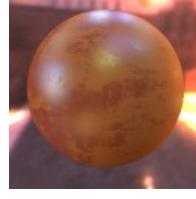
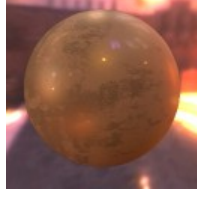
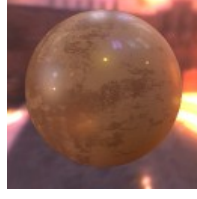
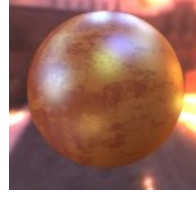
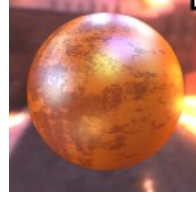
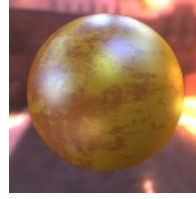
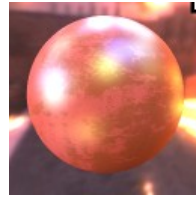
Error Over Time



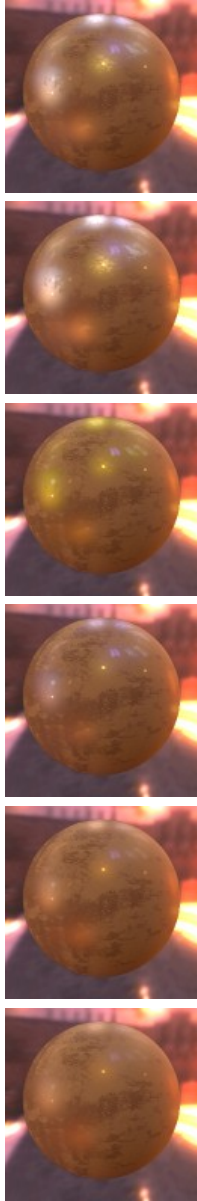
physical
sliders

perceptual
sliders

image
navigation



physical
sliders



perceptual
sliders

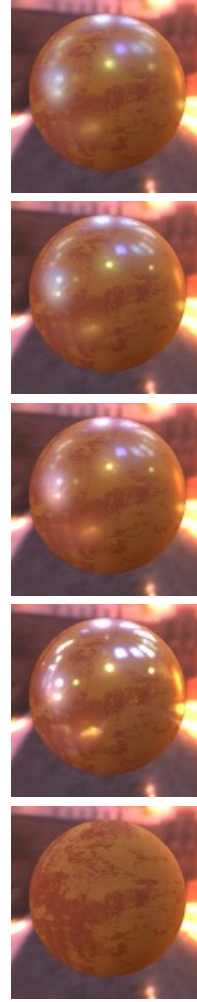
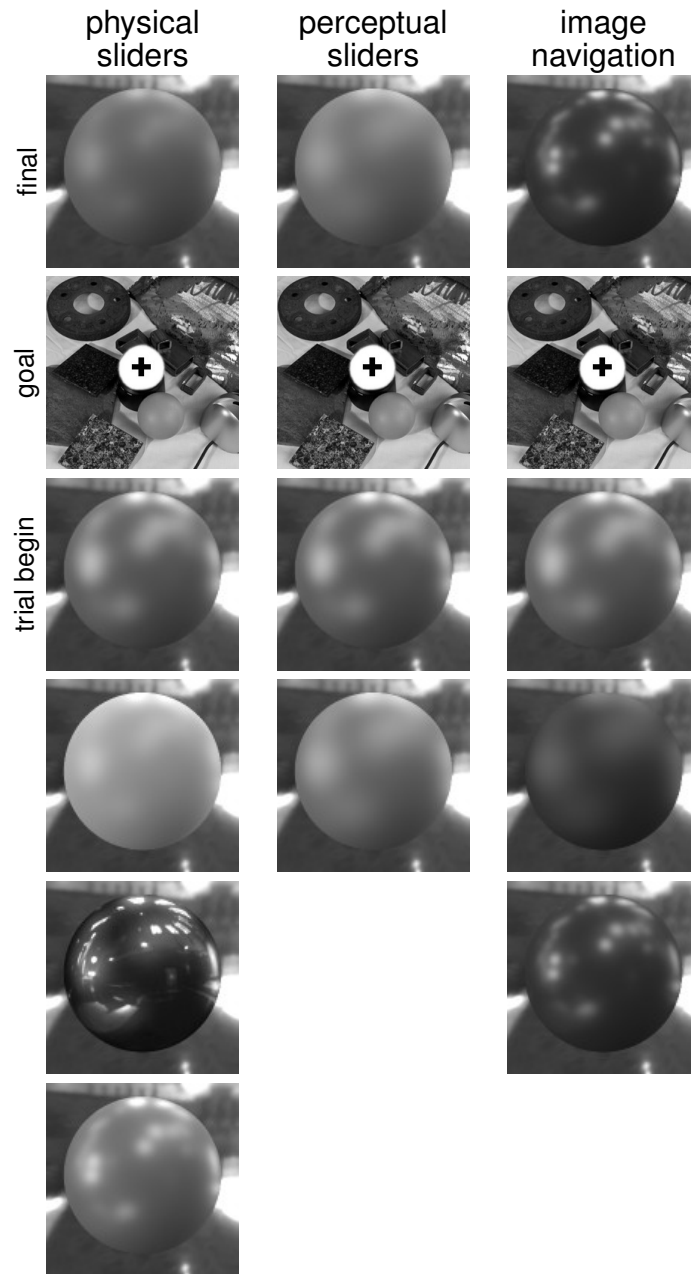
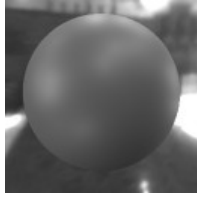


image
navigation

Trial 7



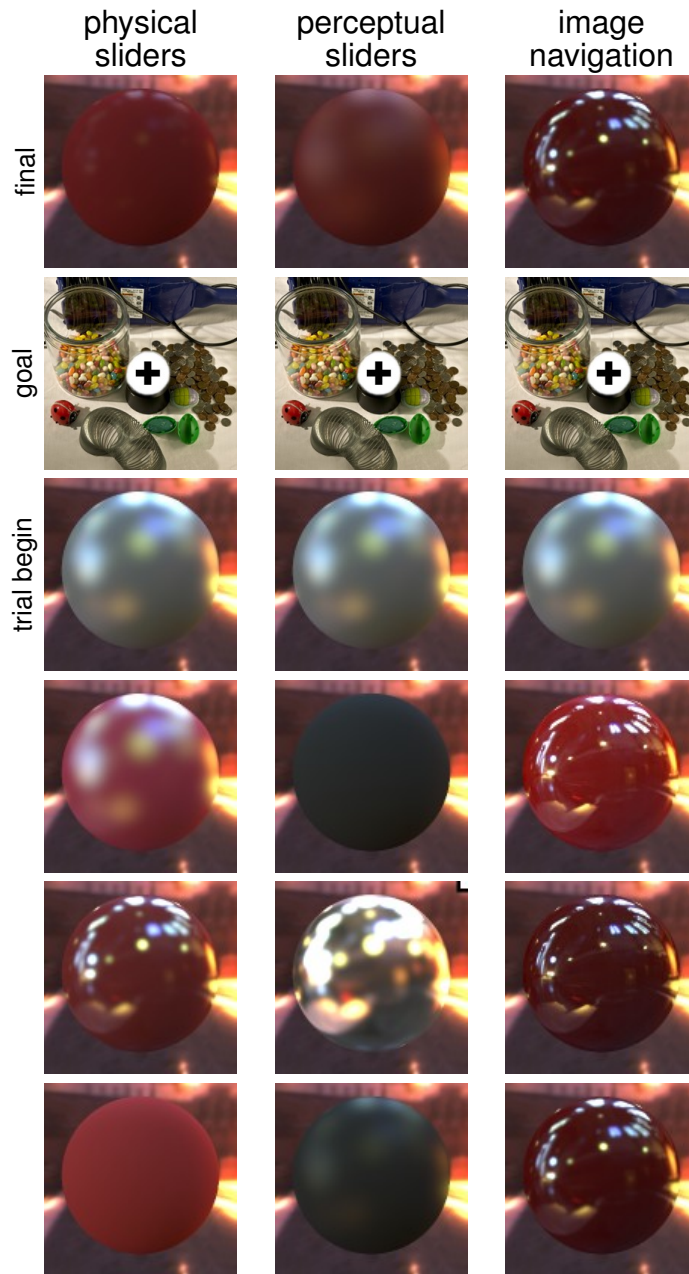
physical
sliders



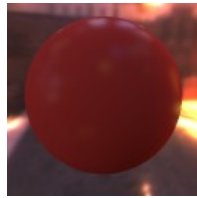
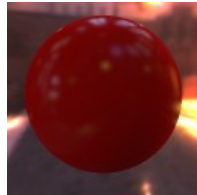
perceptual
sliders

image
navigation

Trial 8



physical
sliders



perceptual
sliders

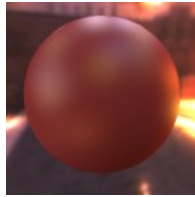
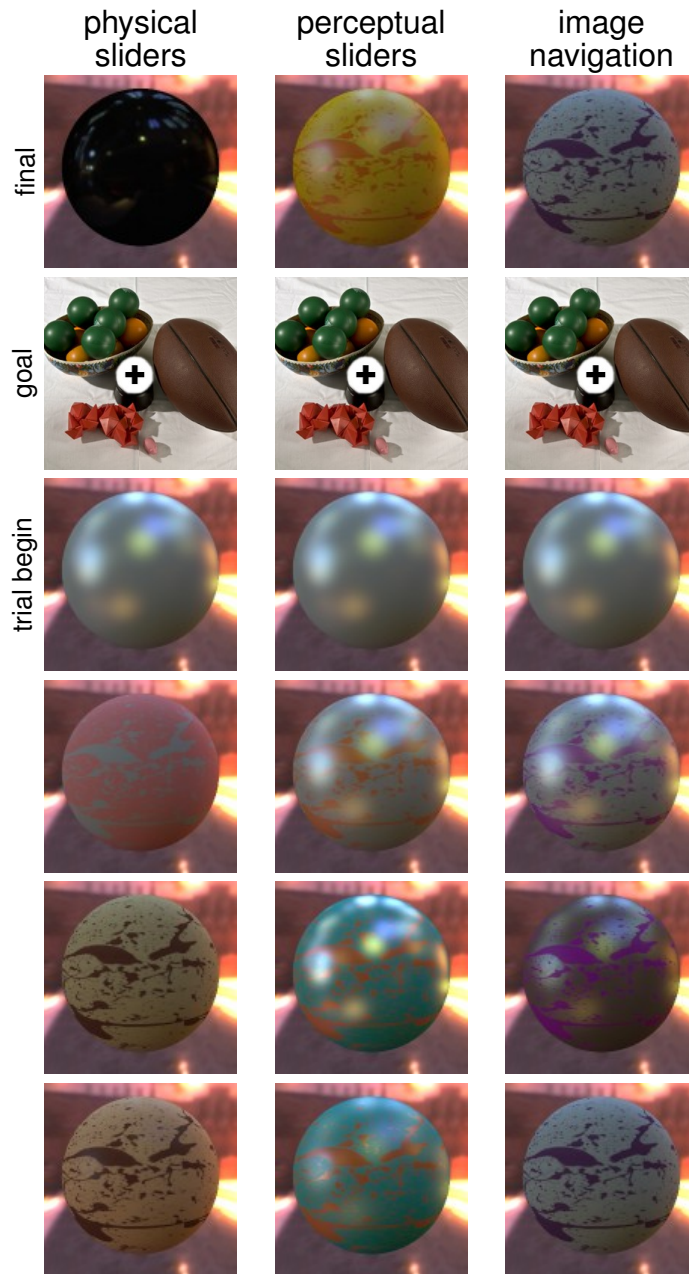
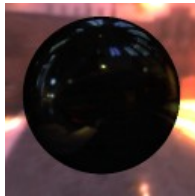
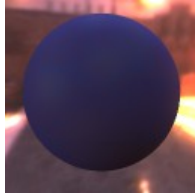
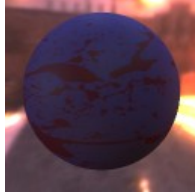


image
navigation

Trial 9



physical
sliders



perceptual
sliders

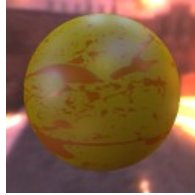
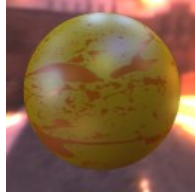
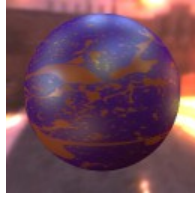
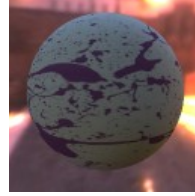
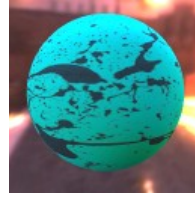
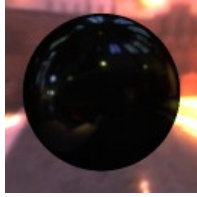


image
navigation



physical
sliders



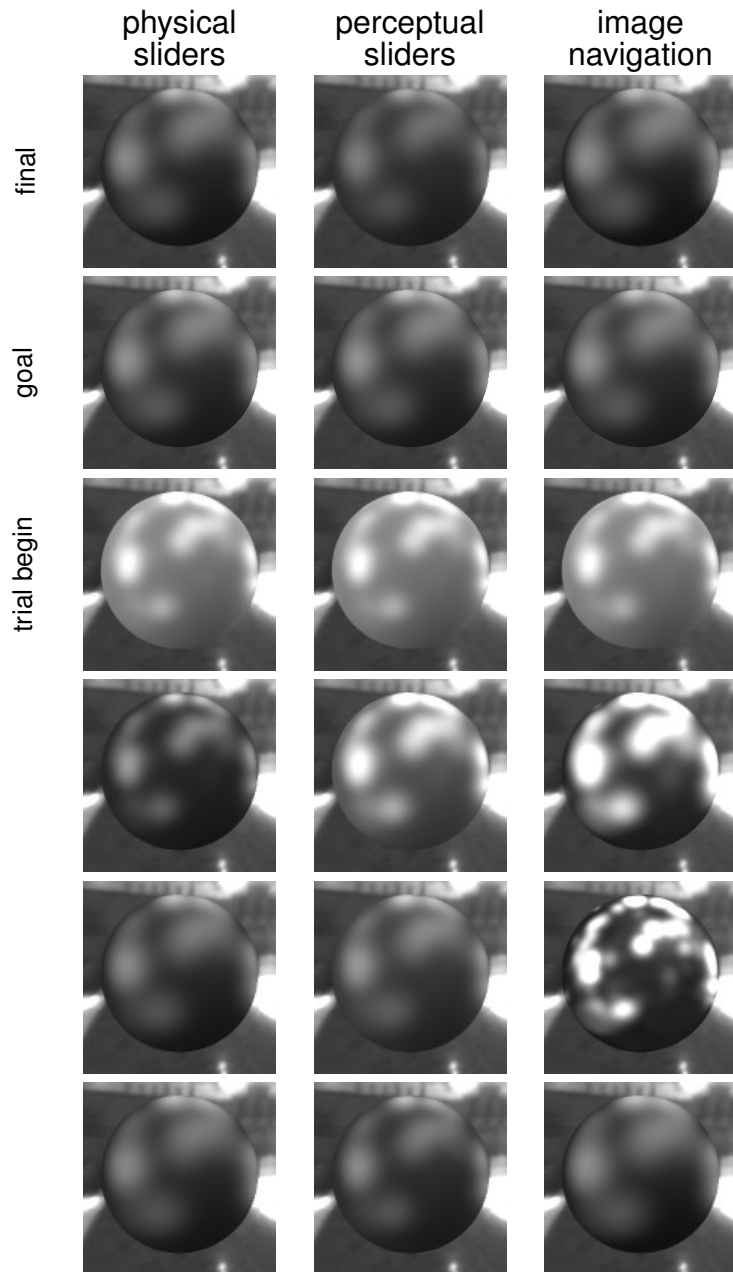
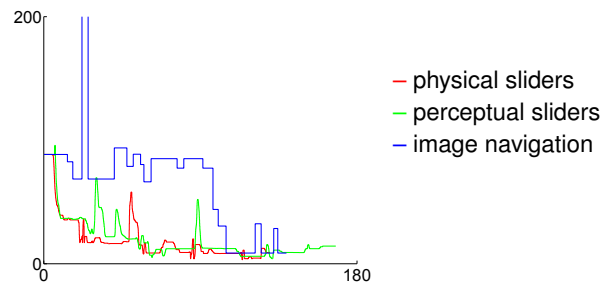
perceptual
sliders

image
navigation

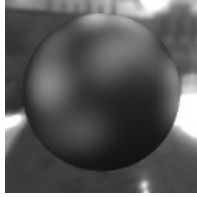
Subject 4

Trial 1

Error Over Time



physical
sliders



perceptual
sliders

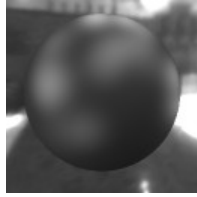
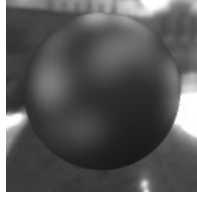
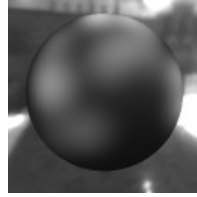
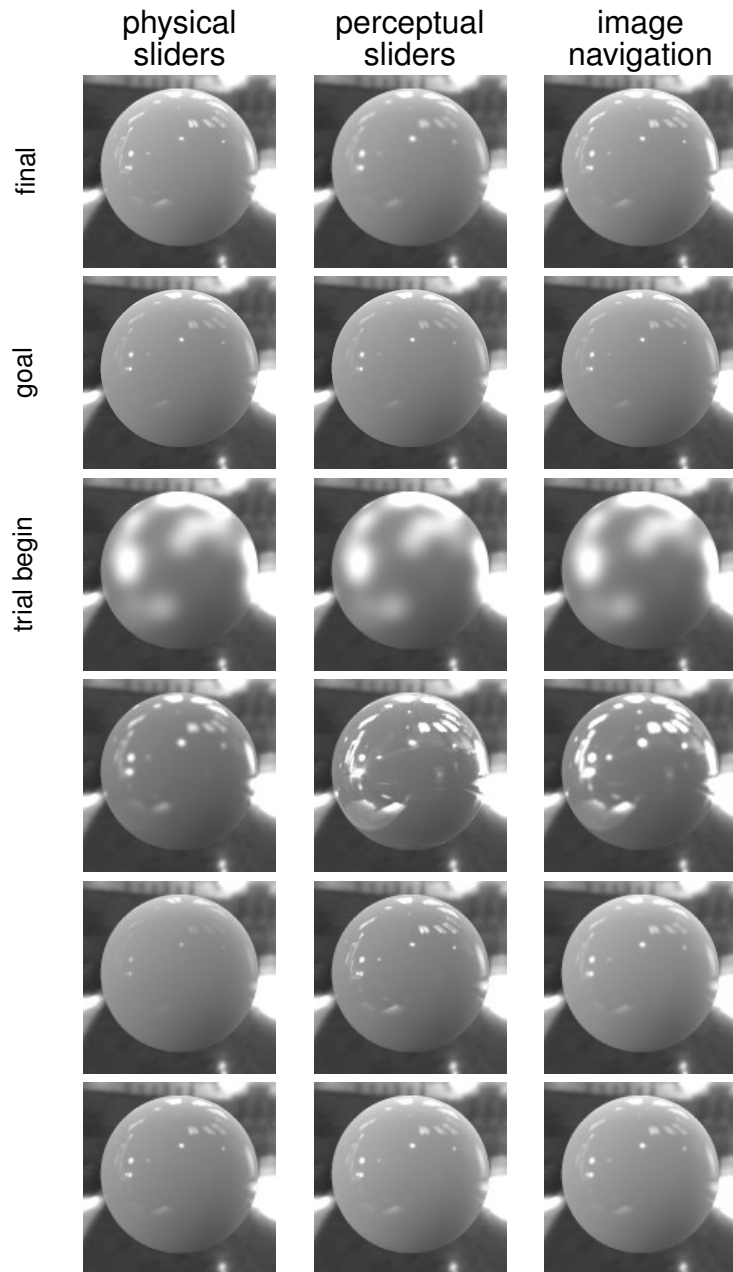
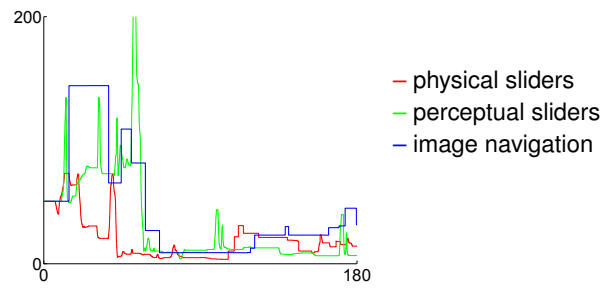


image
navigation

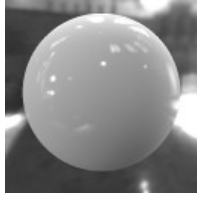


Trial 2

Error Over Time



physical
sliders



perceptual
sliders

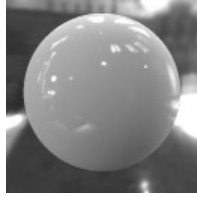
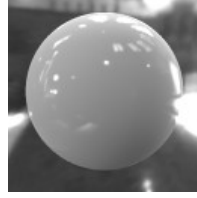
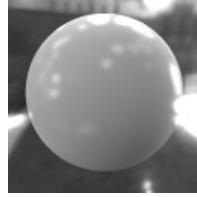
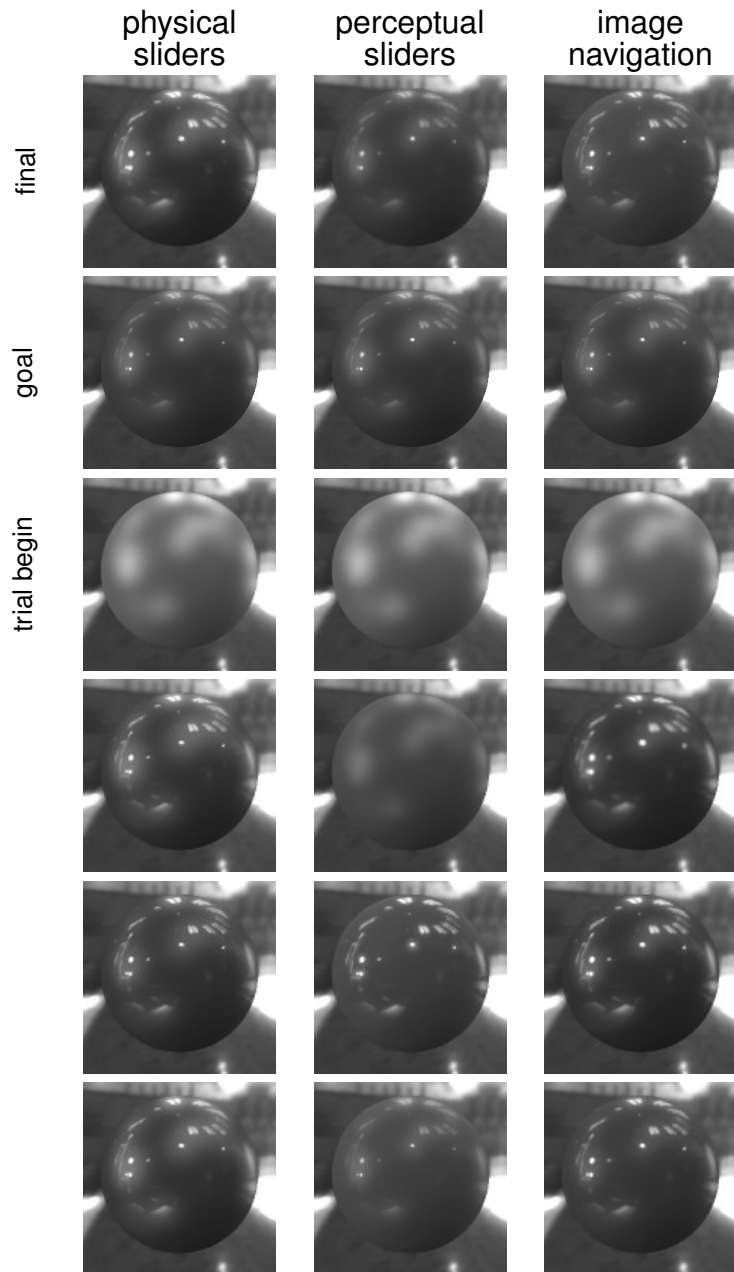
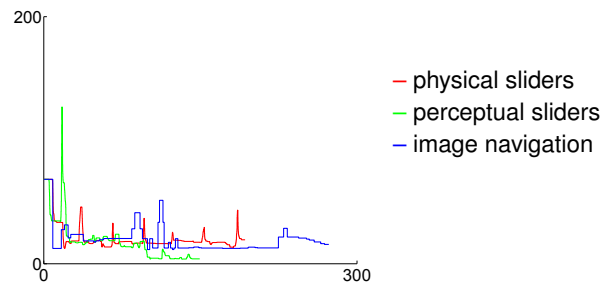


image
navigation

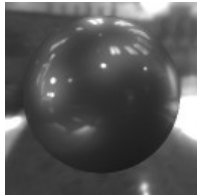
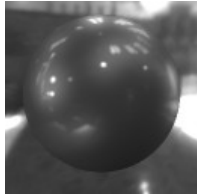
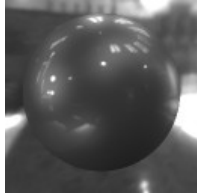


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

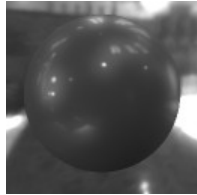
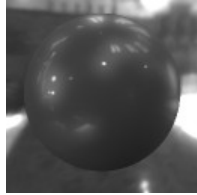
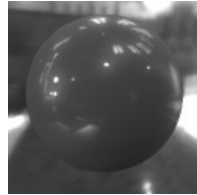
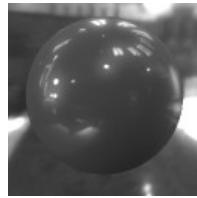
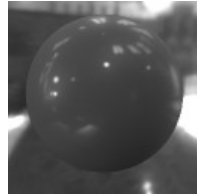
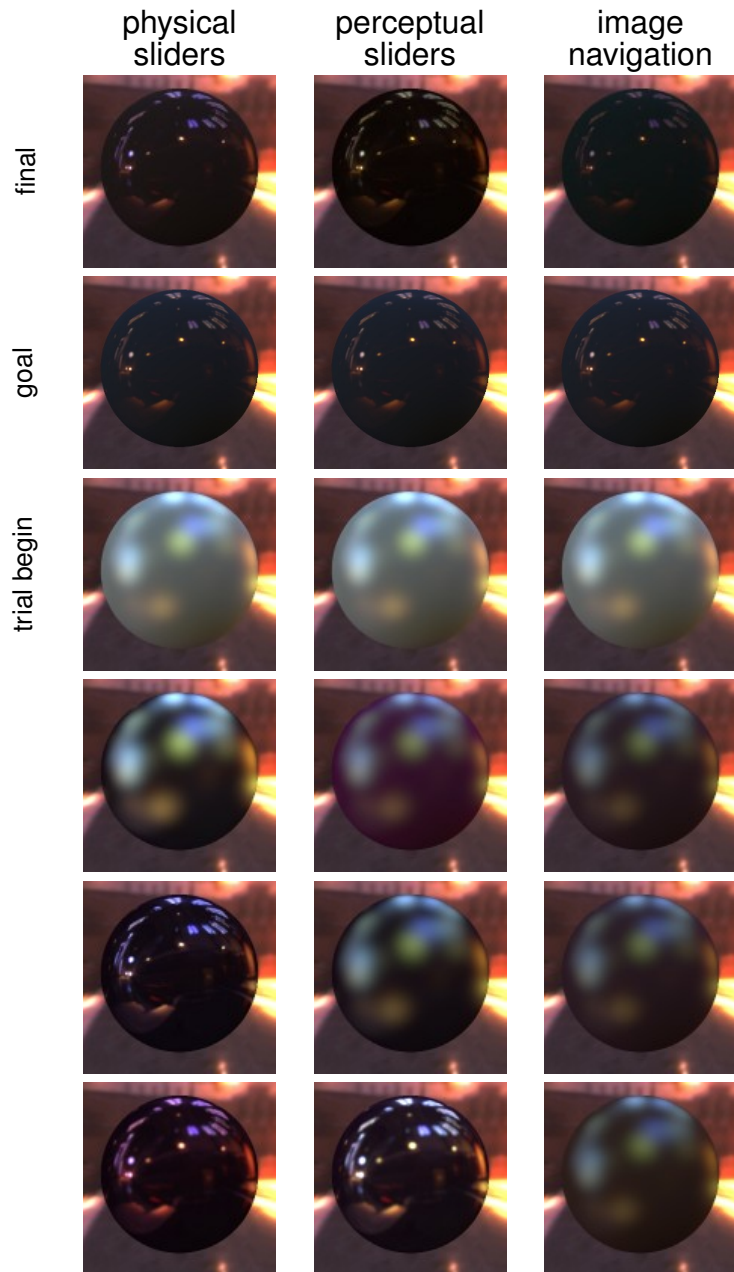
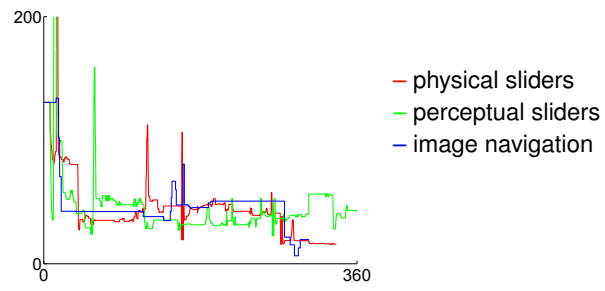


image
navigation

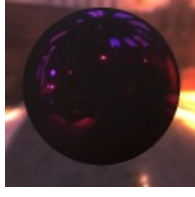
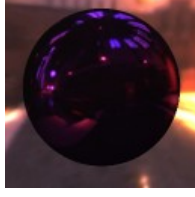
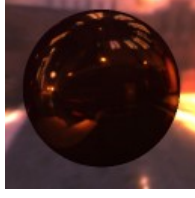
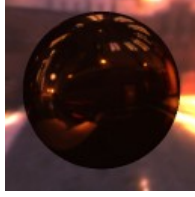
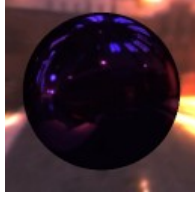
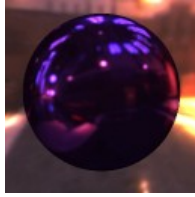


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

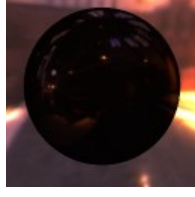
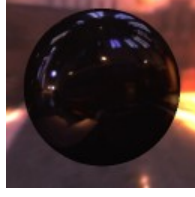
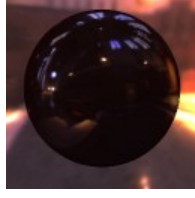
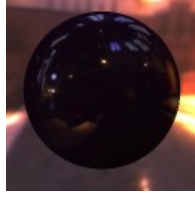
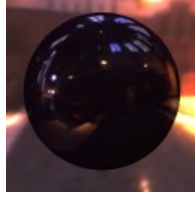
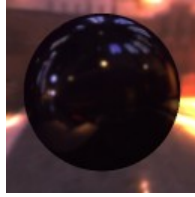
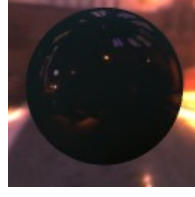
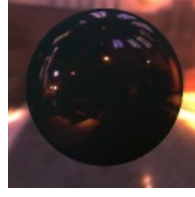
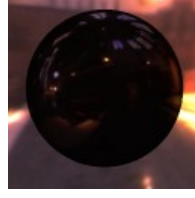
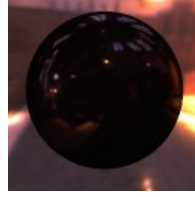
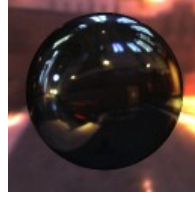
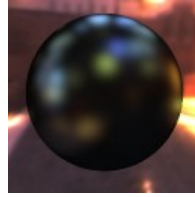
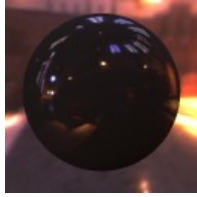


image
navigation



physical
sliders



perceptual
sliders

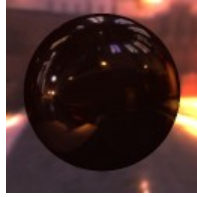
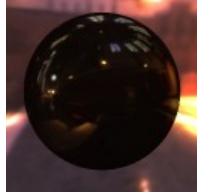
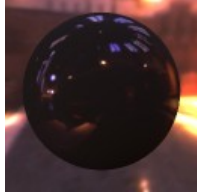
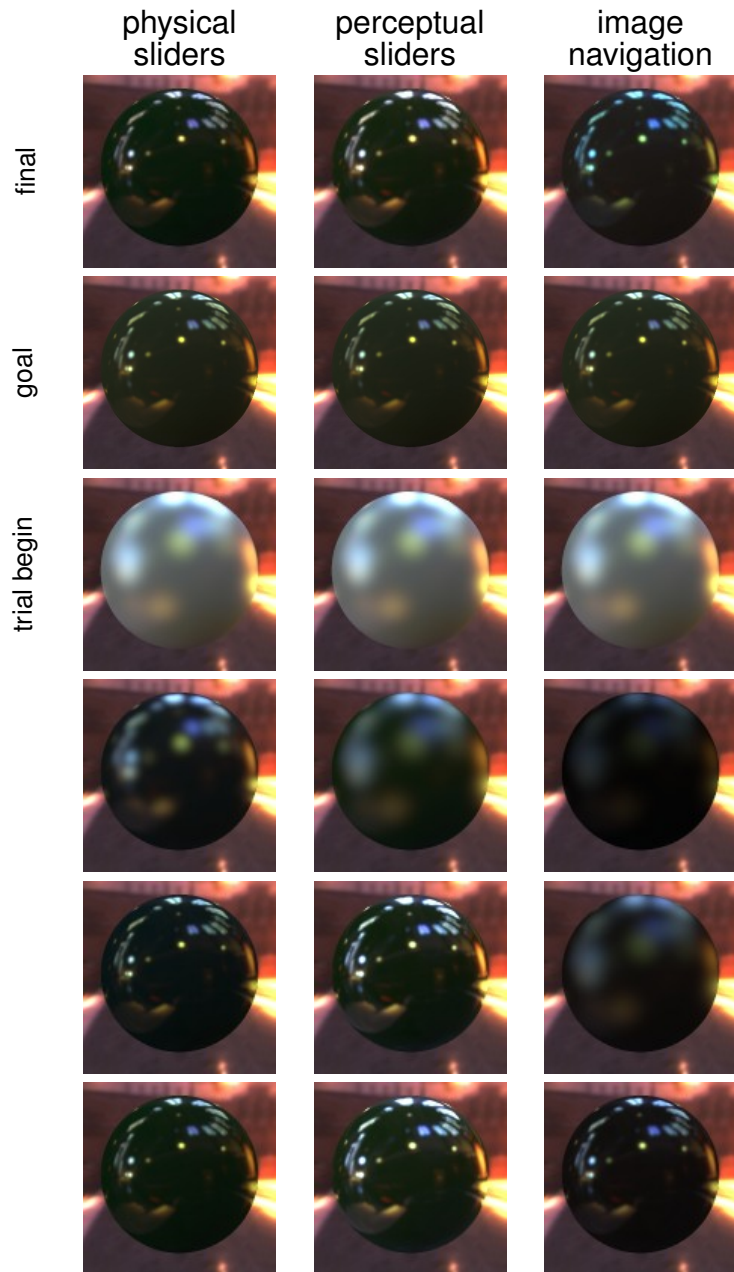
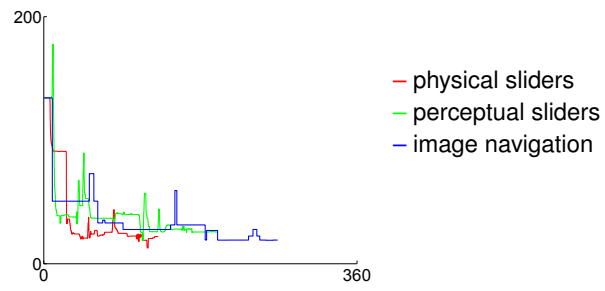


image
navigation

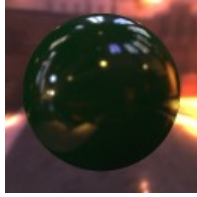


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

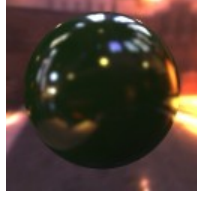
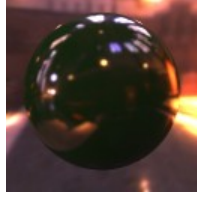
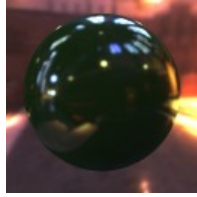
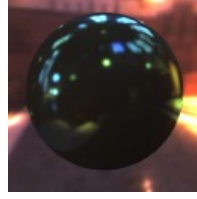
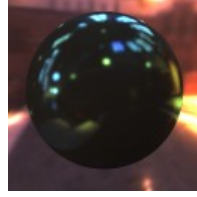
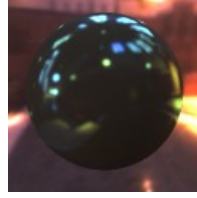
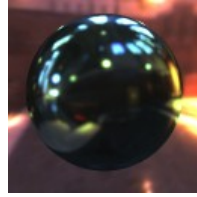
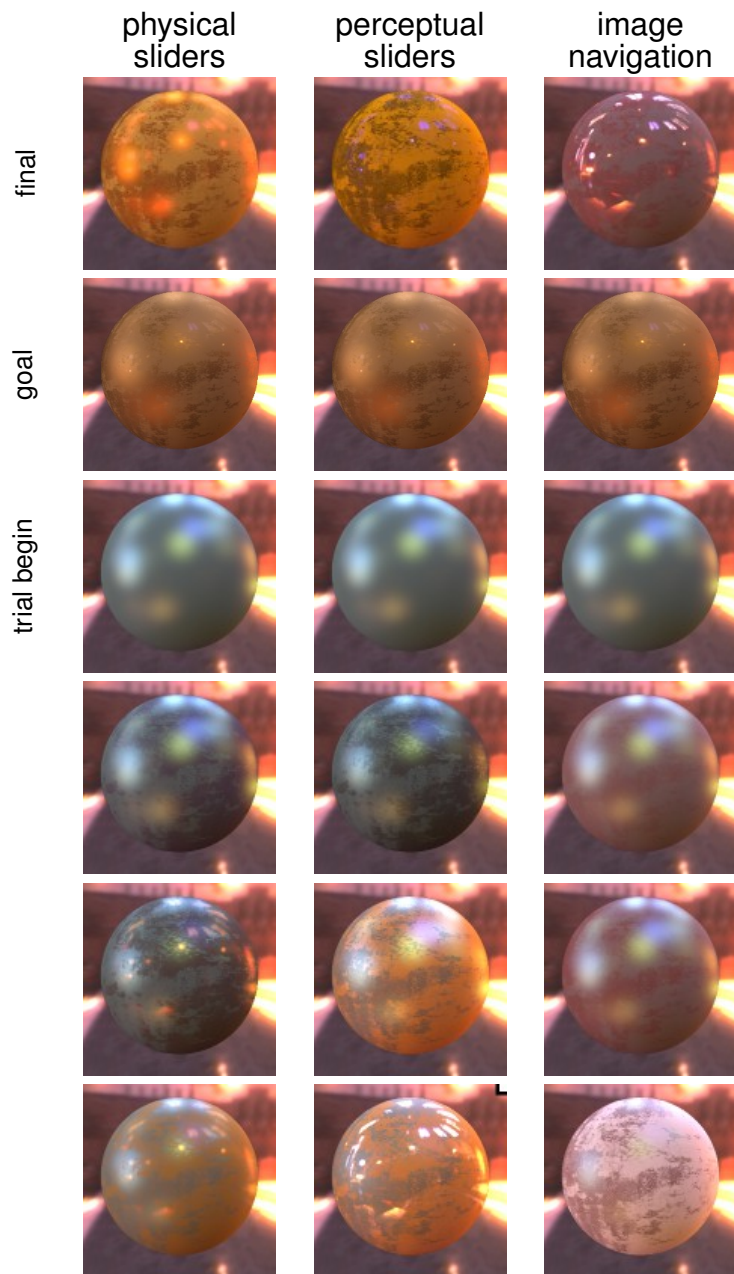
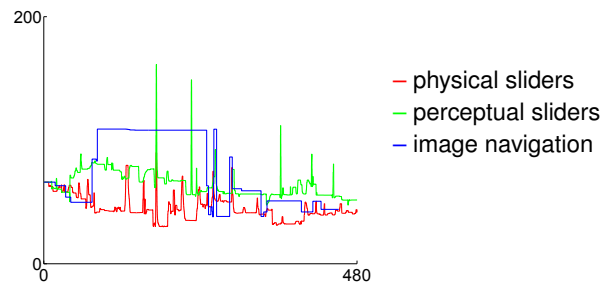


image
navigation

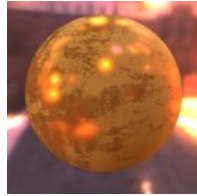


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

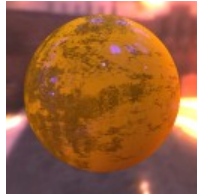
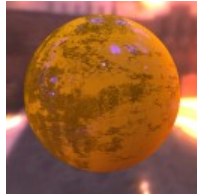
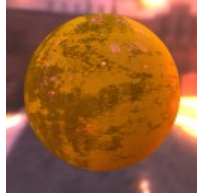
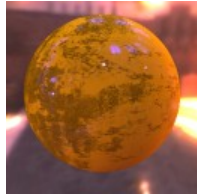
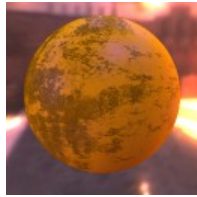
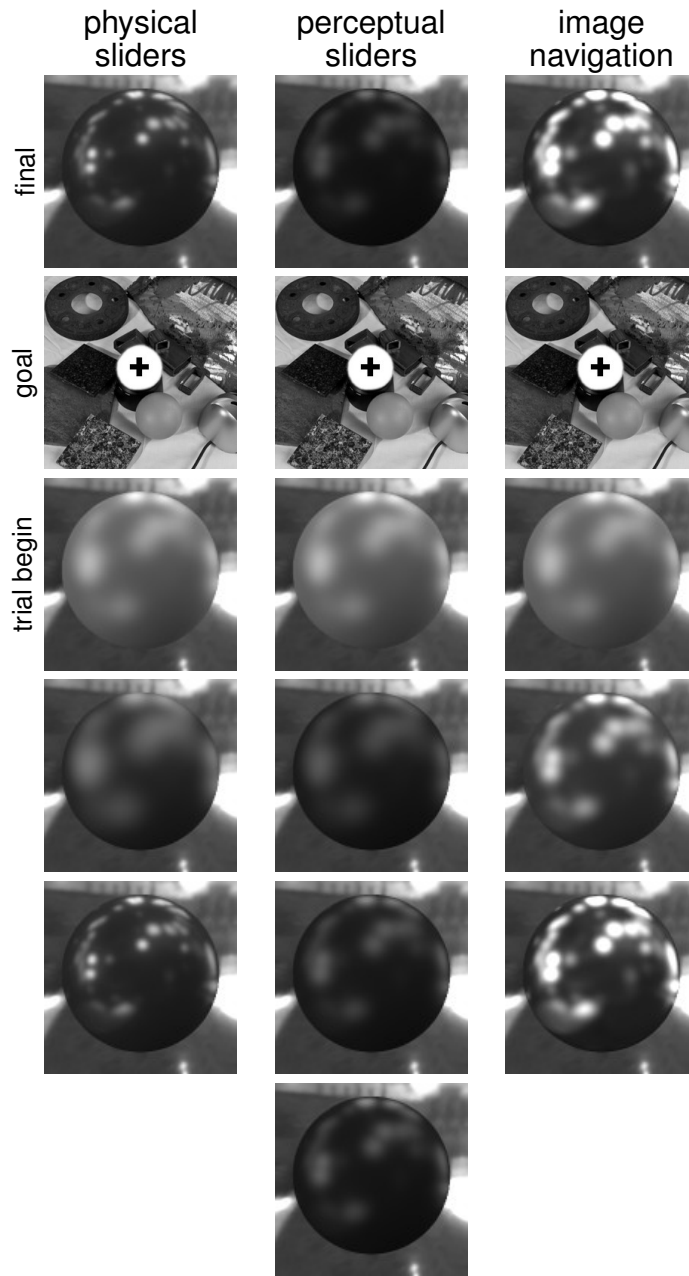


image
navigation



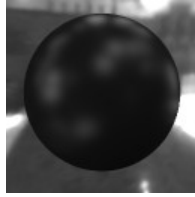
Trial 7



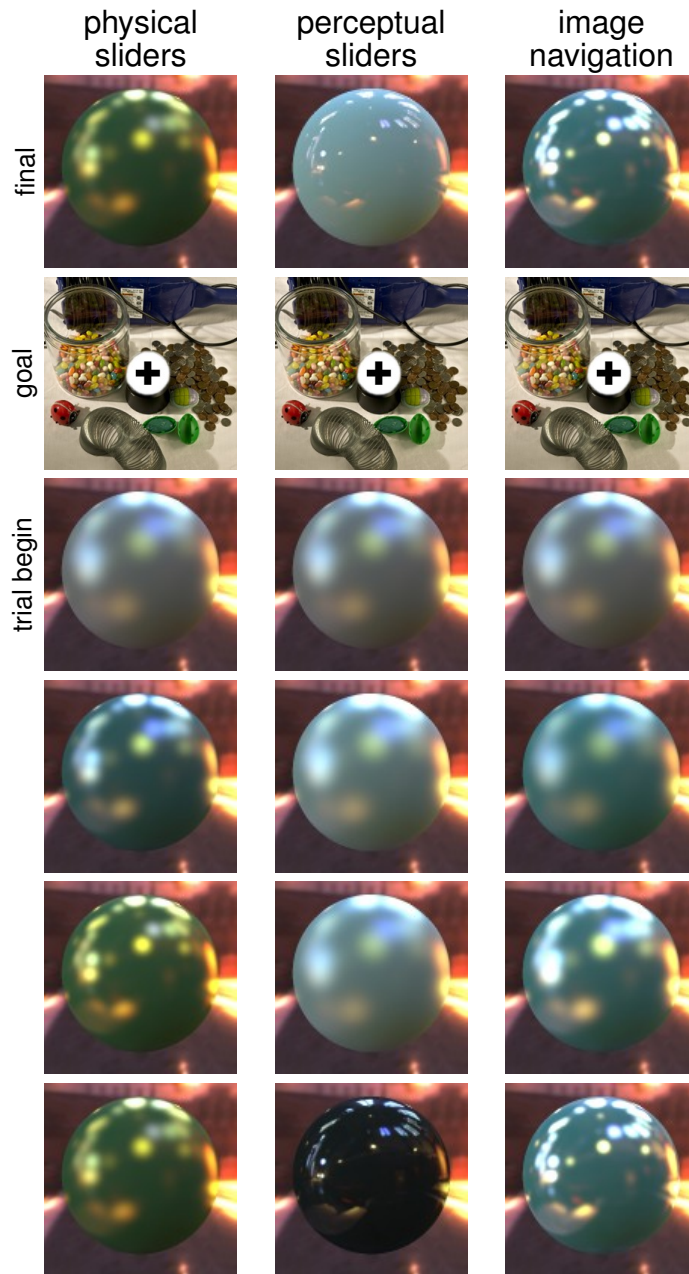
physical
sliders

perceptual
sliders

image
navigation



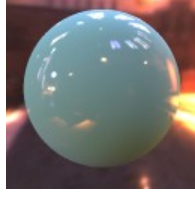
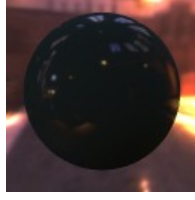
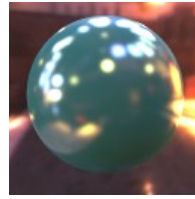
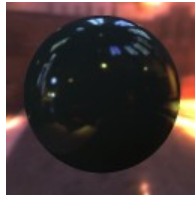
Trial 8



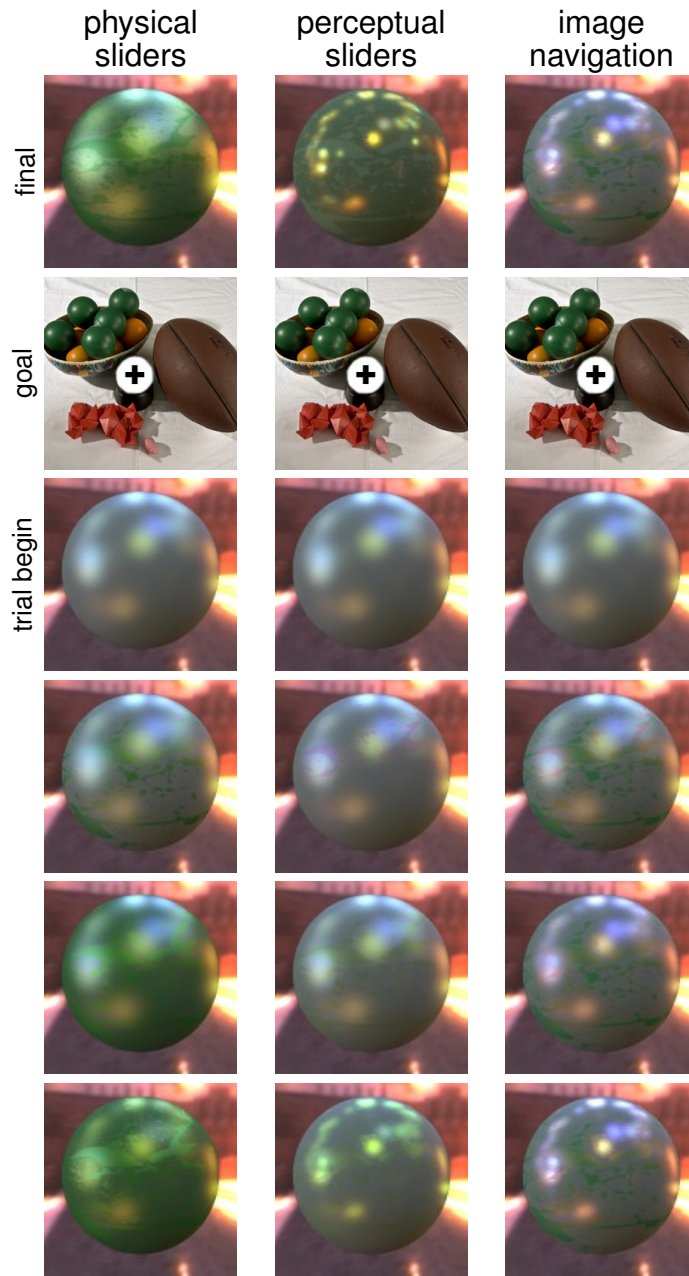
physical
sliders

perceptual
sliders

image
navigation



Trial 9



physical
sliders



perceptual
sliders

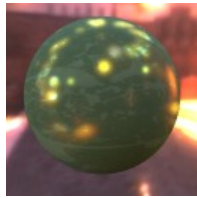
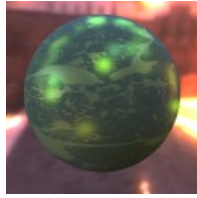
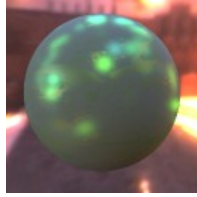


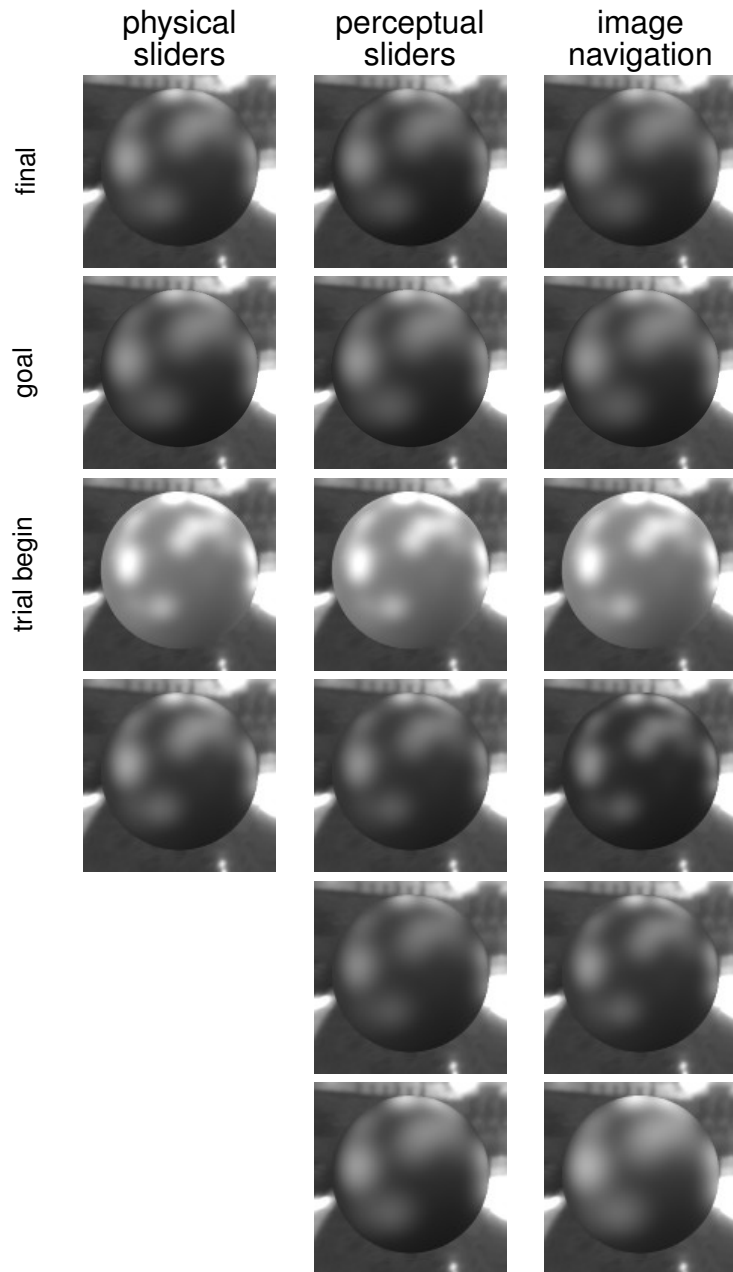
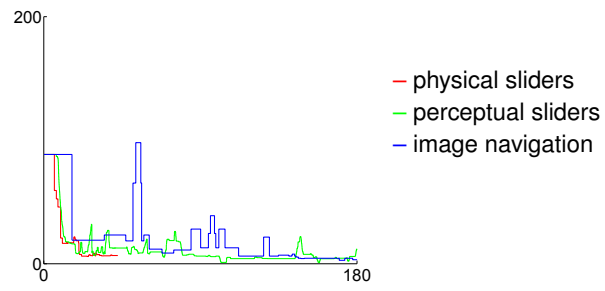
image
navigation



Subject 5

Trial 1

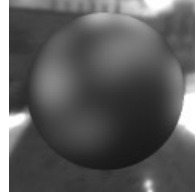
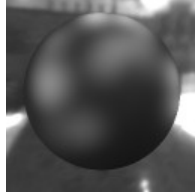
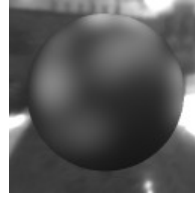
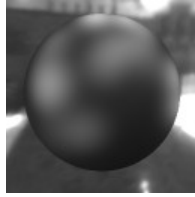
Error Over Time



physical
sliders

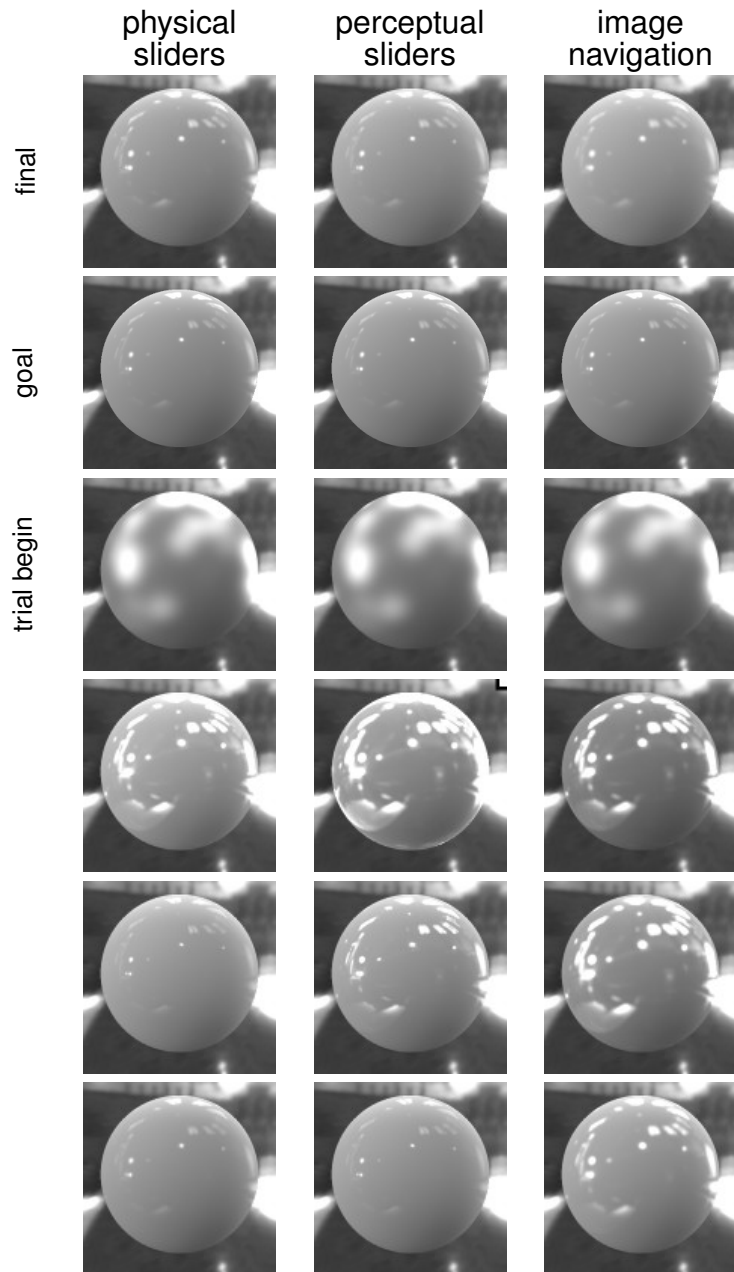
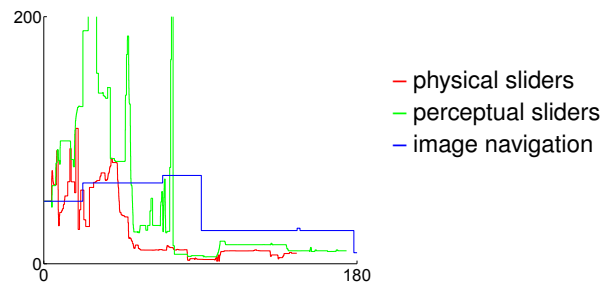
perceptual
sliders

image
navigation

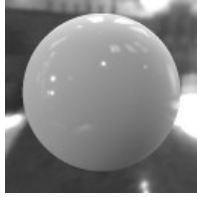


Trial 2

Error Over Time



physical
sliders



perceptual
sliders

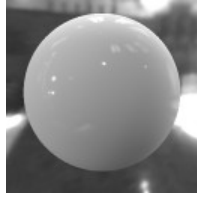
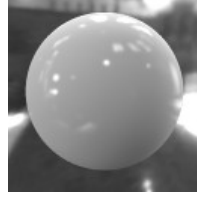
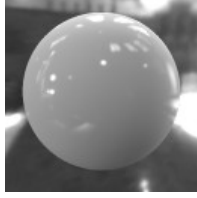
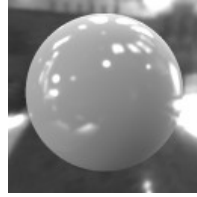
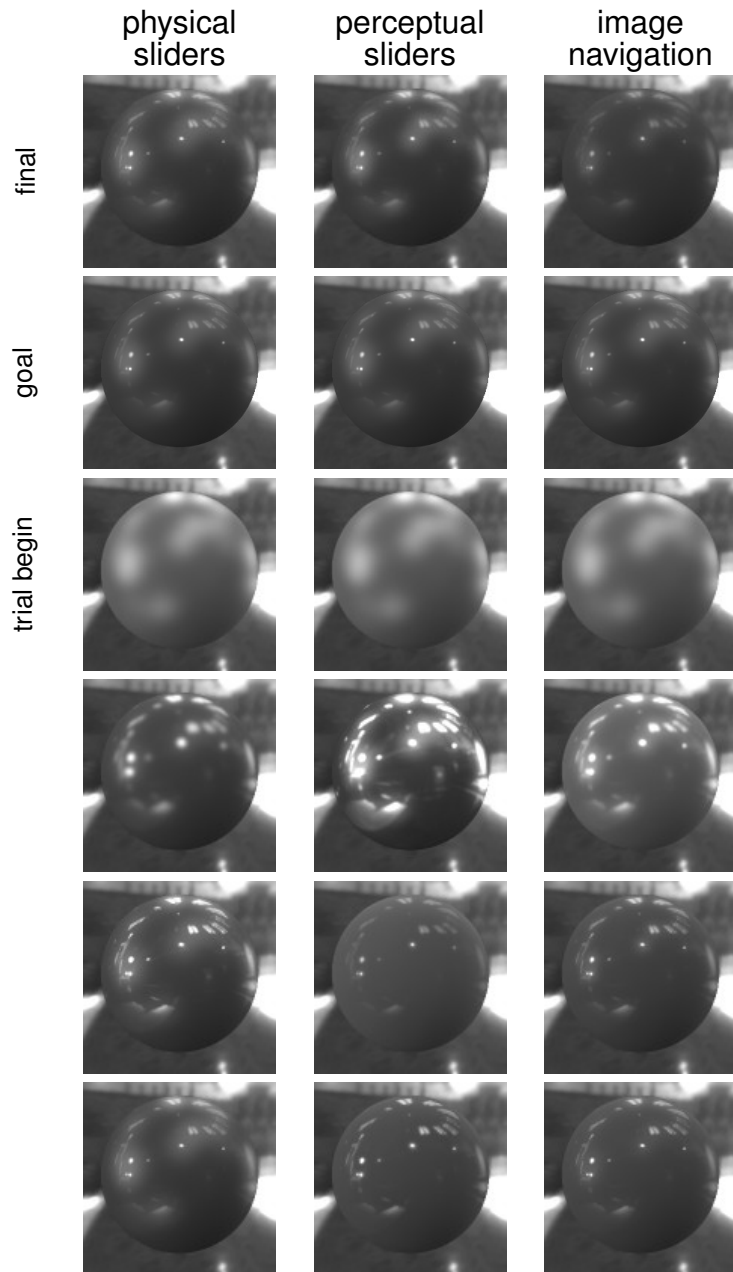
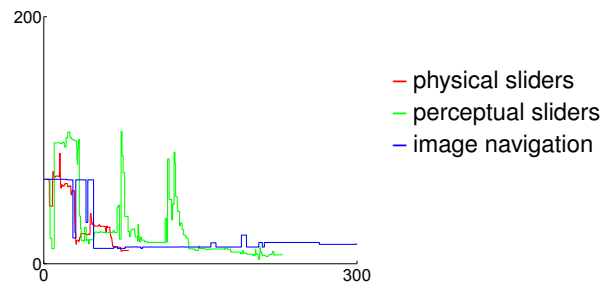


image
navigation



Trial 3

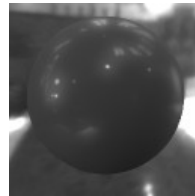
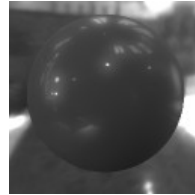
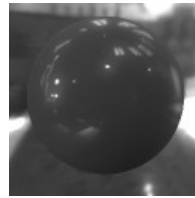
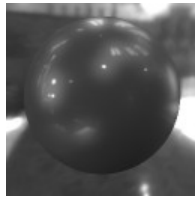
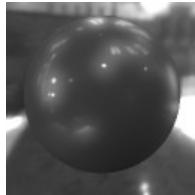
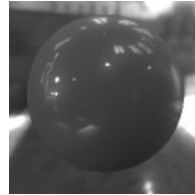
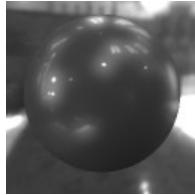
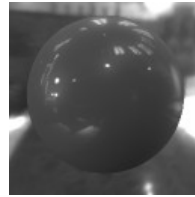
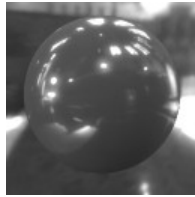
Error Over Time



physical
sliders

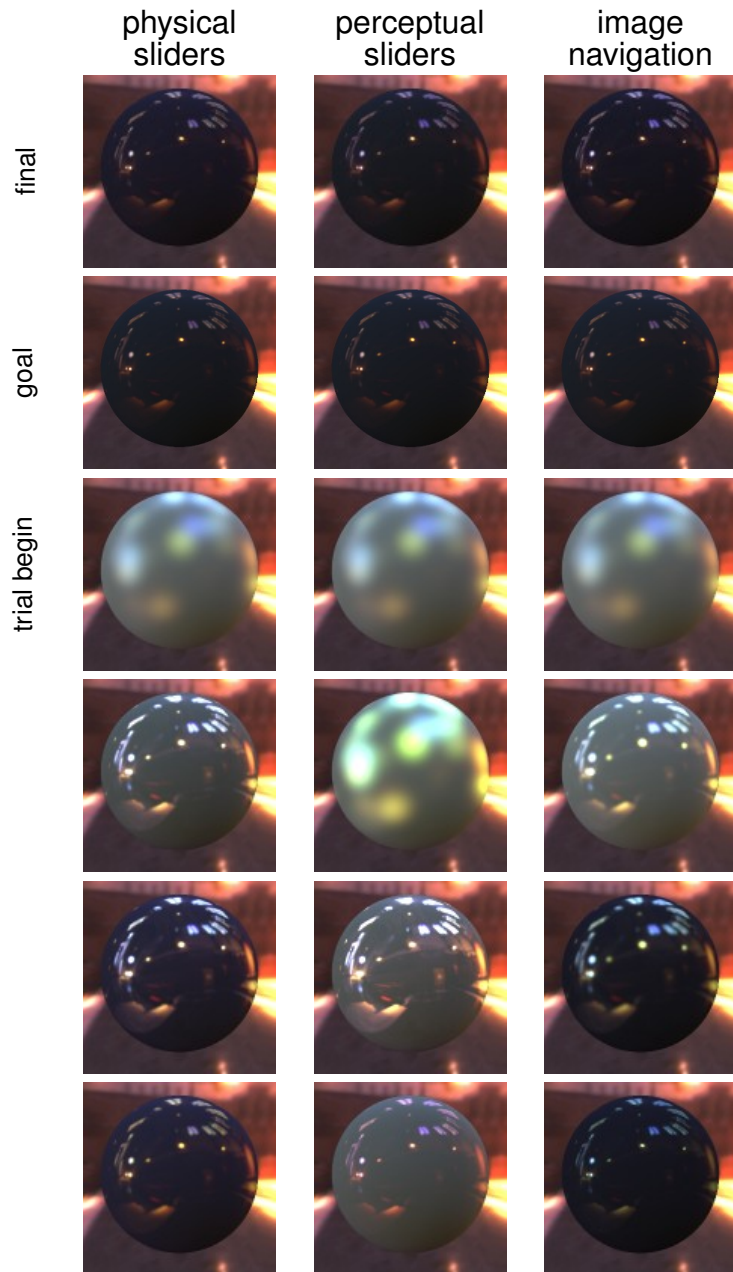
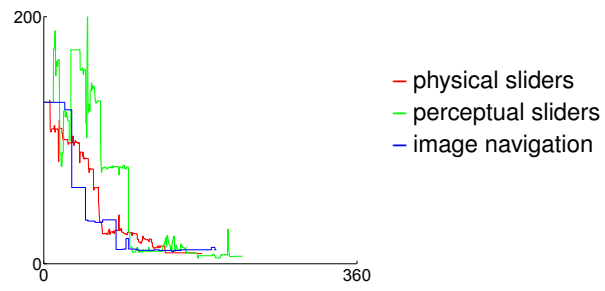
perceptual
sliders

image
navigation

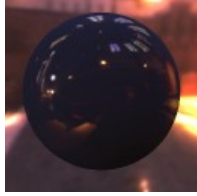
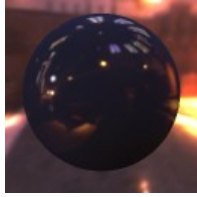


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

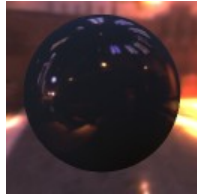
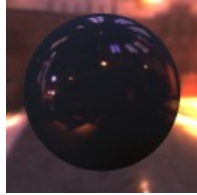
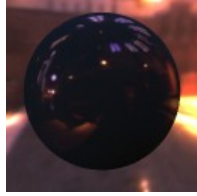
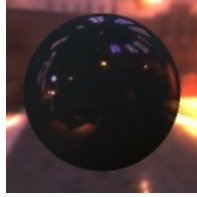
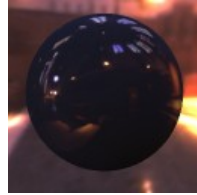
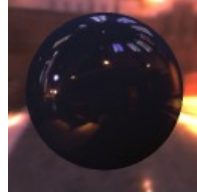
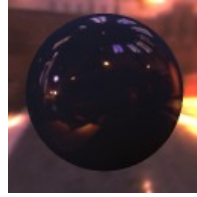
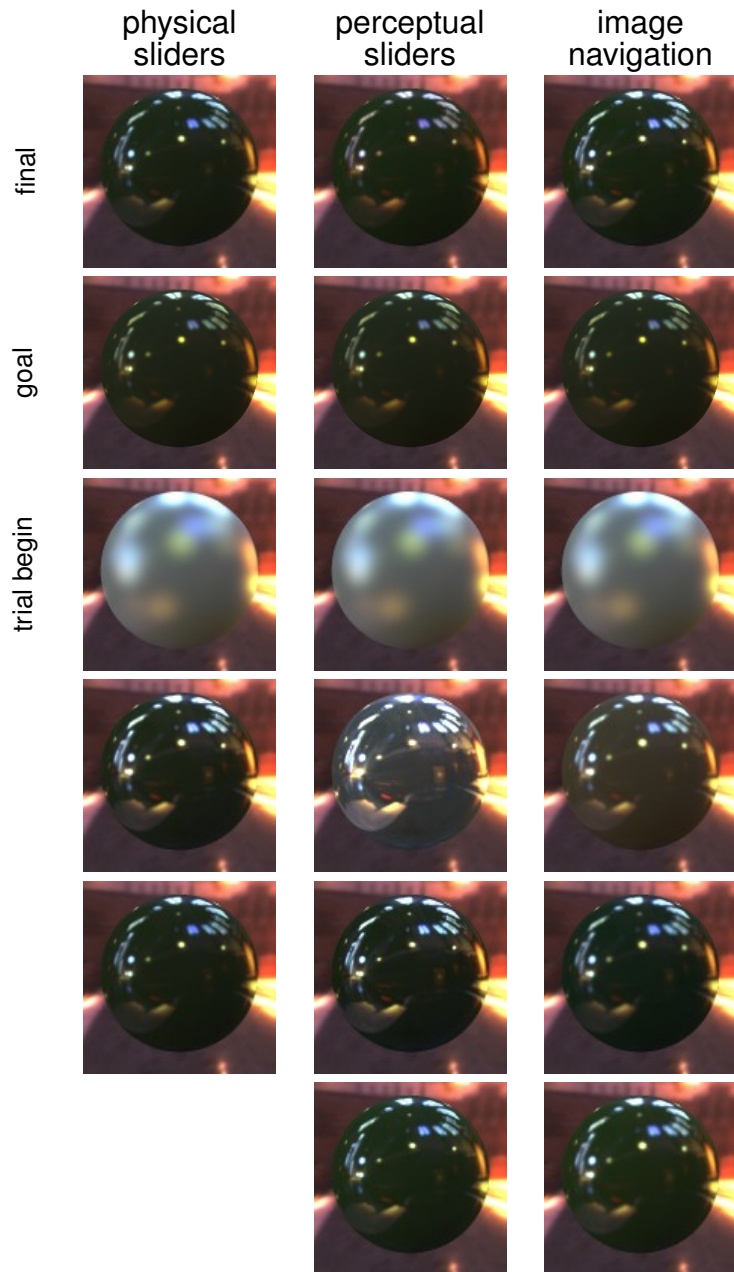
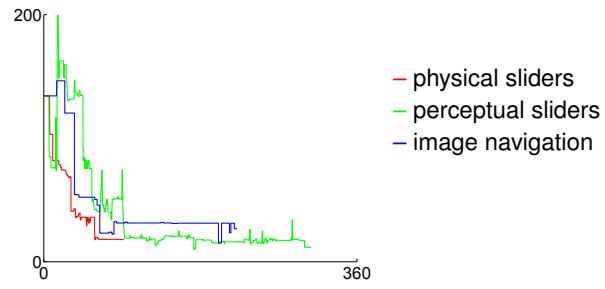


image
navigation



Trial 5

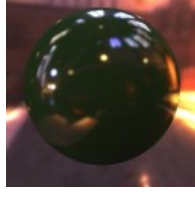
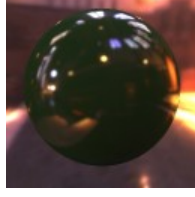
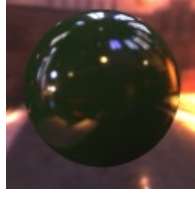
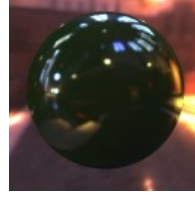
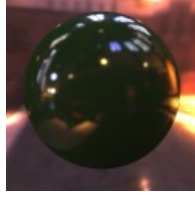
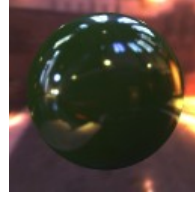
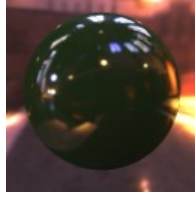
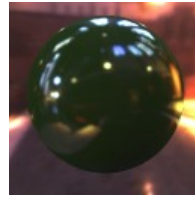
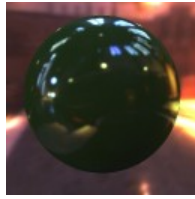
Error Over Time



physical
sliders

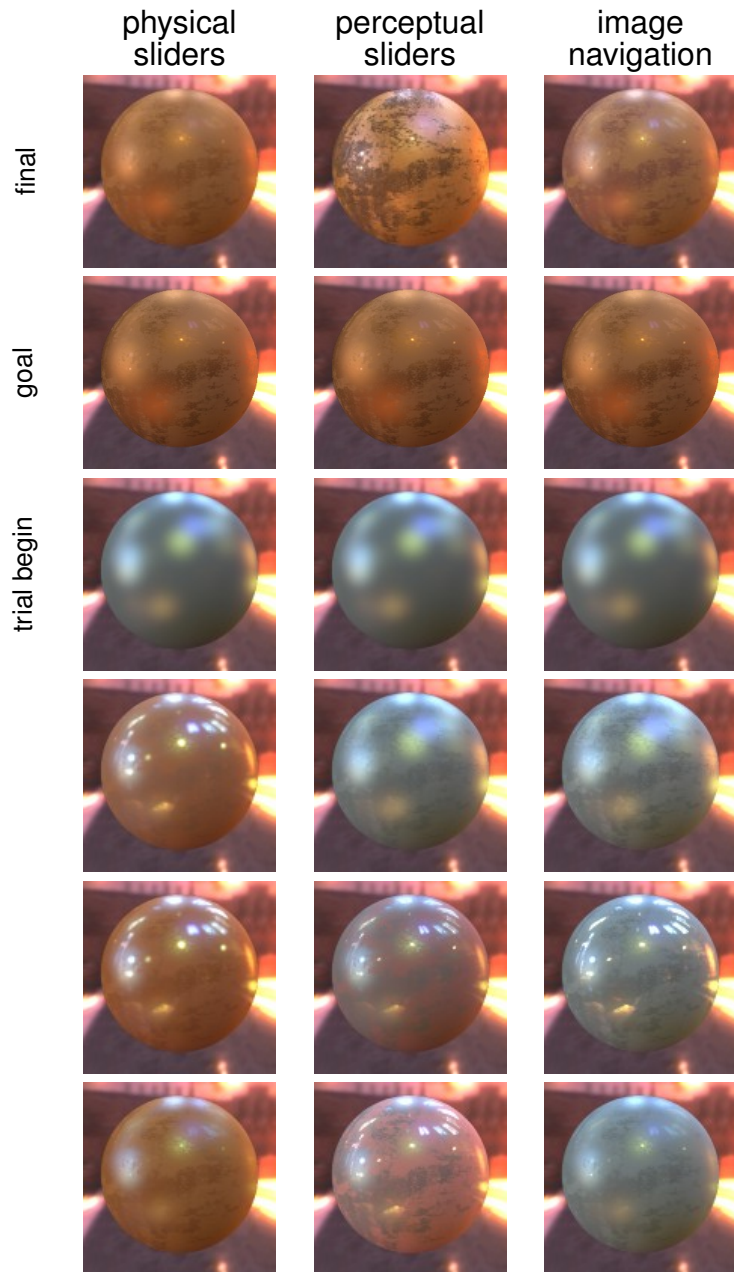
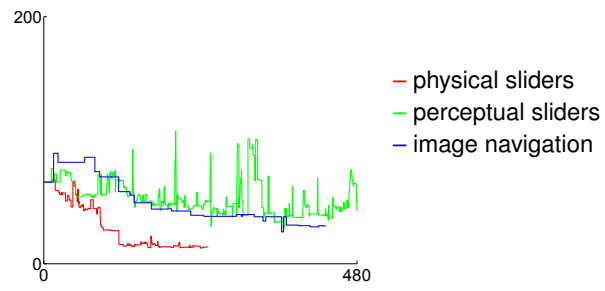
perceptual
sliders

image
navigation



Trial 6

Error Over Time



physical
sliders



perceptual
sliders

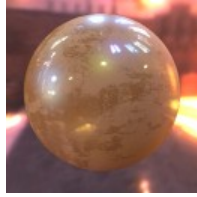
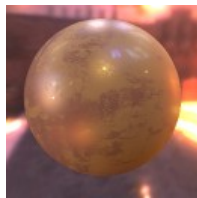
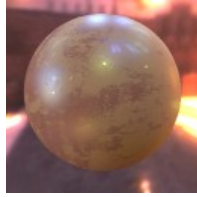


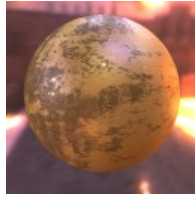
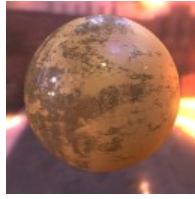
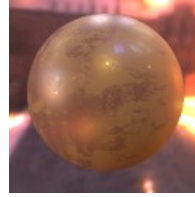
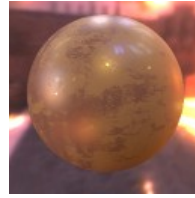
image
navigation



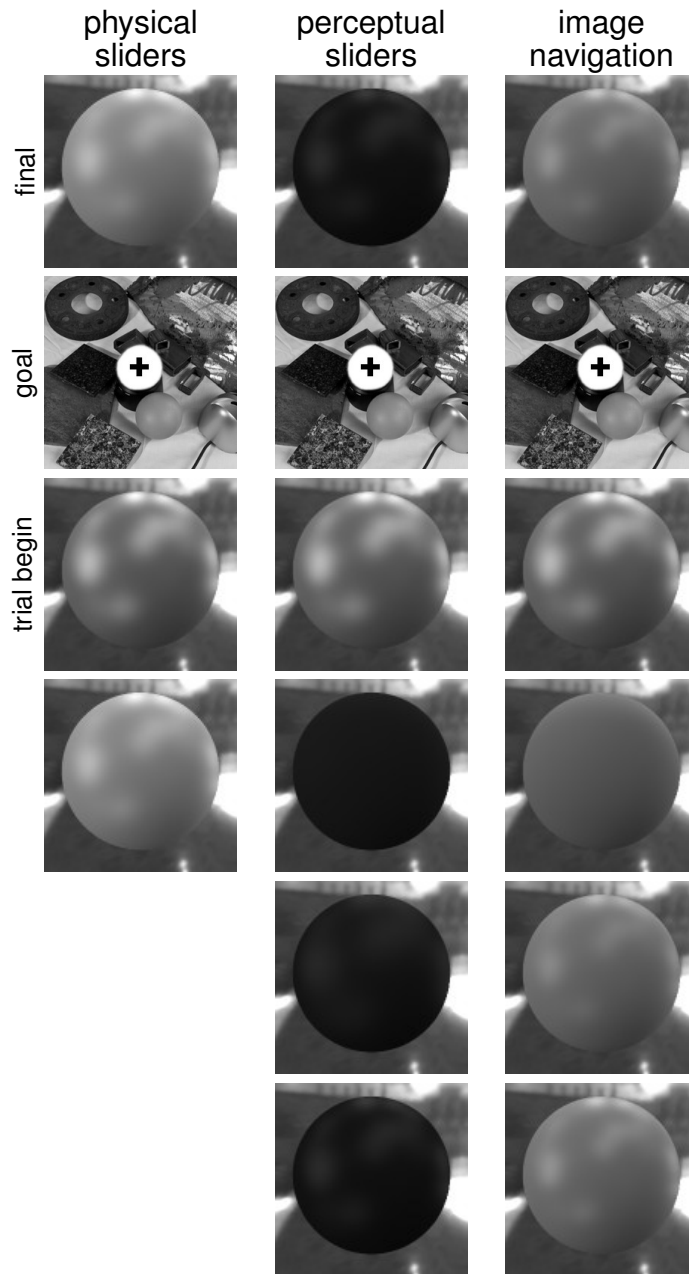
physical
sliders

perceptual
sliders

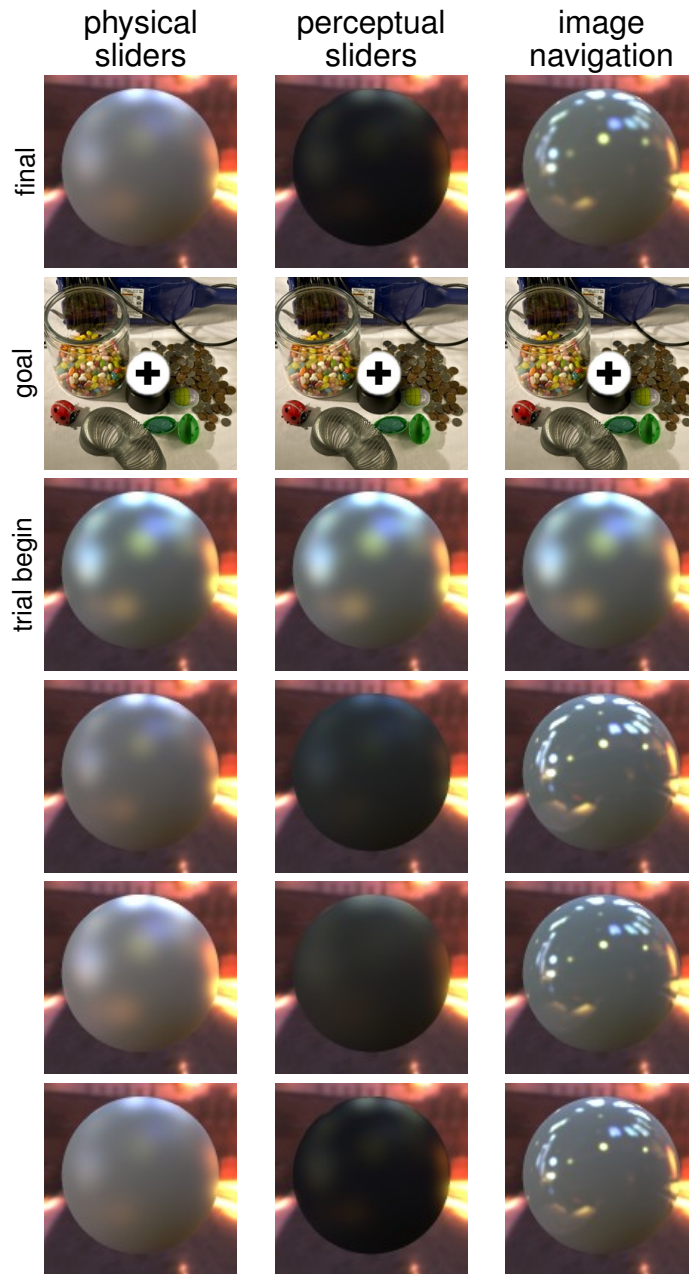
image
navigation



Trial 7



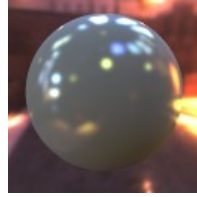
Trial 8



physical
sliders

perceptual
sliders

image
navigation



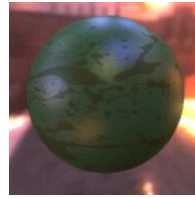
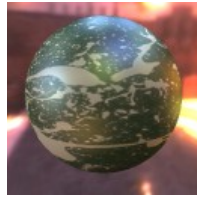
Trial 9

physical
sliders

perceptual
sliders

image
navigation

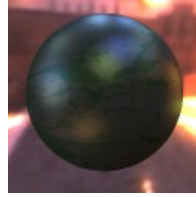
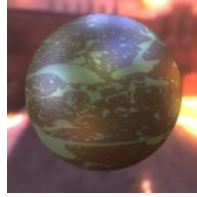
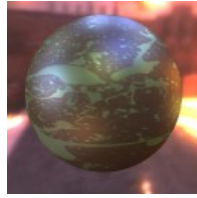
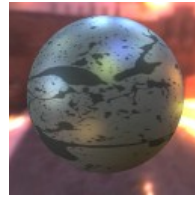
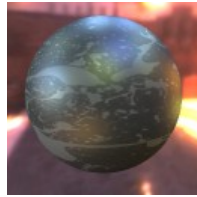
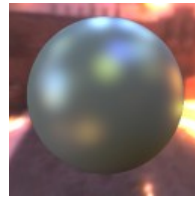
final



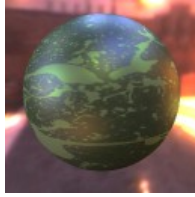
goal



trial
begin



physical
sliders



perceptual
sliders

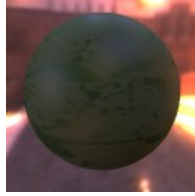
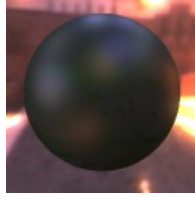
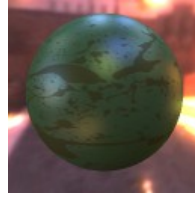


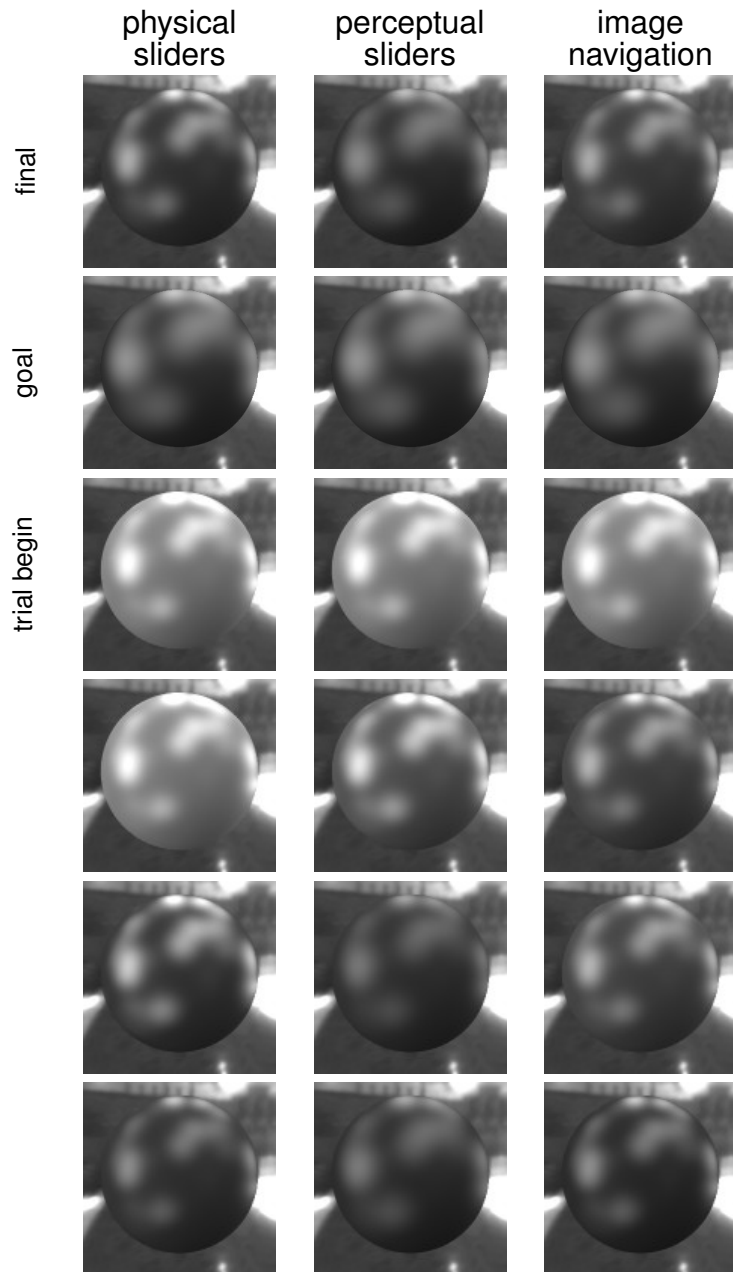
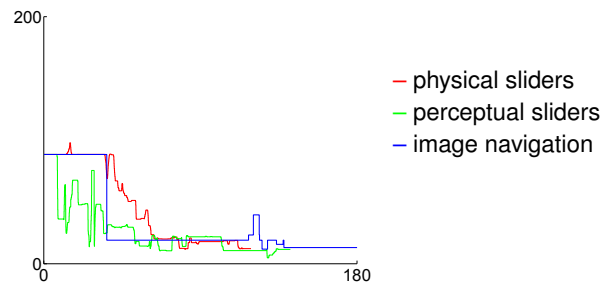
image
navigation



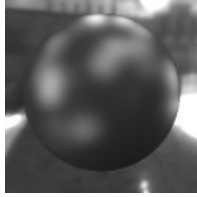
Subject 6

Trial 1

Error Over Time



physical
sliders



perceptual
sliders

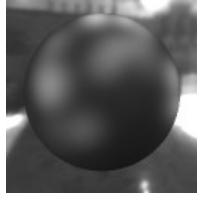
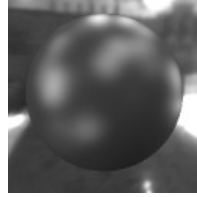
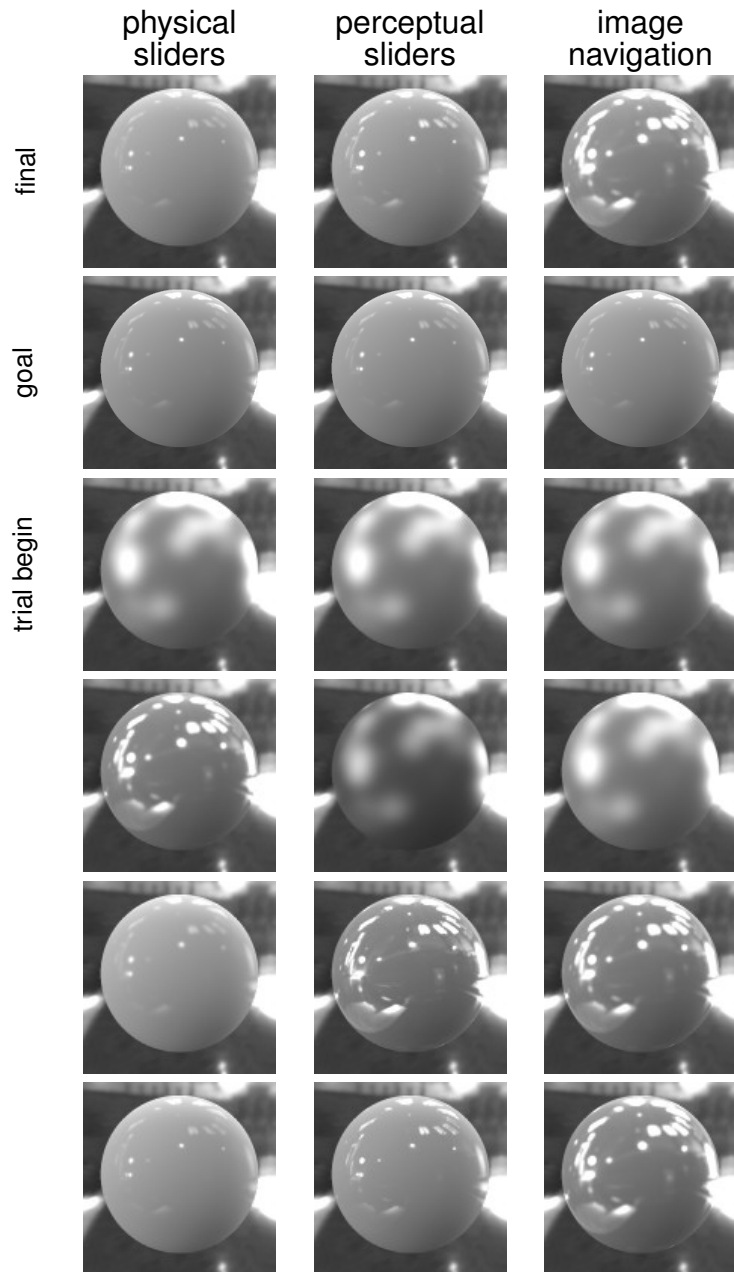
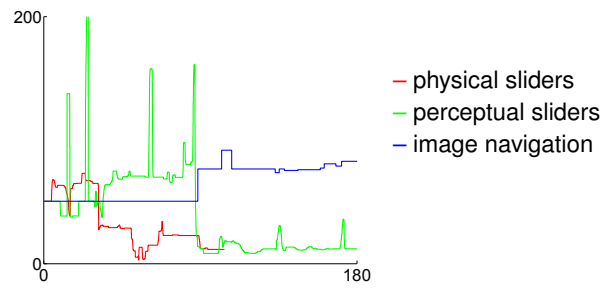


image
navigation



Trial 2

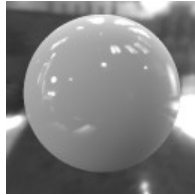
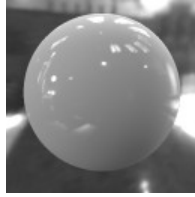
Error Over Time



physical
sliders

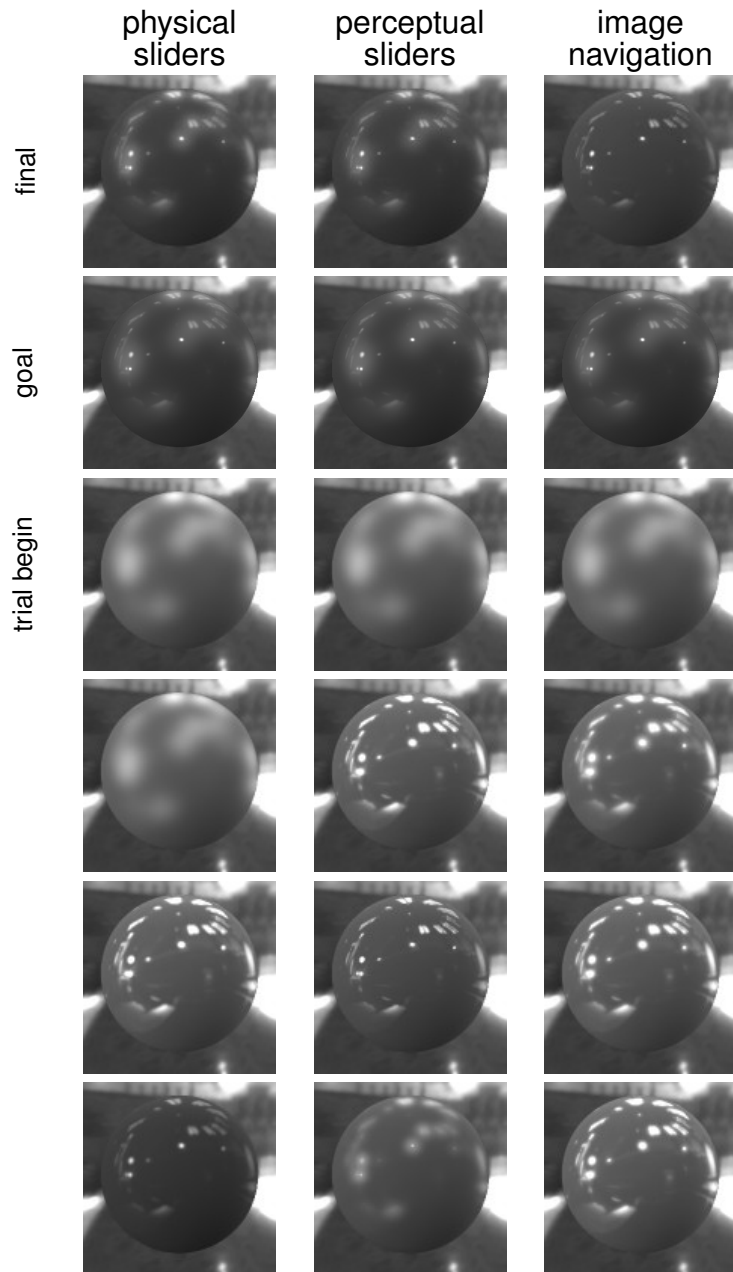
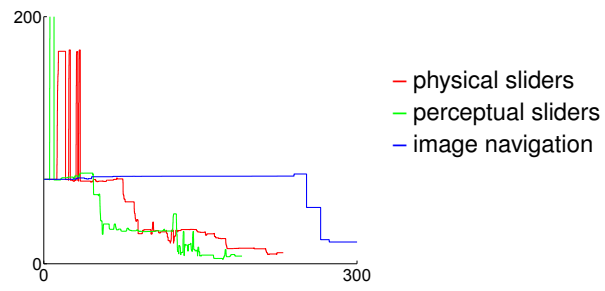
perceptual
sliders

image
navigation

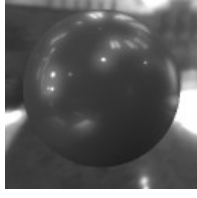
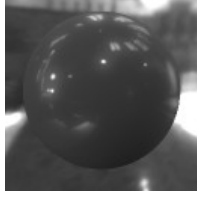
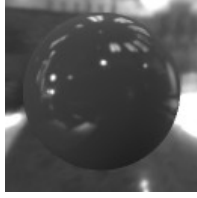


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

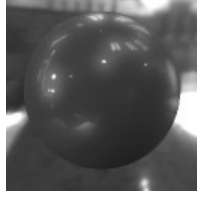
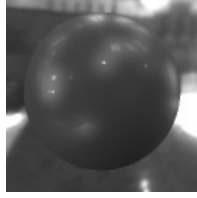
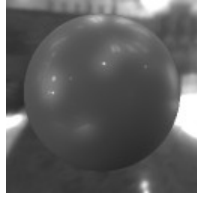
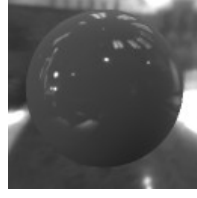
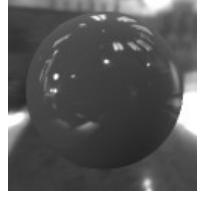
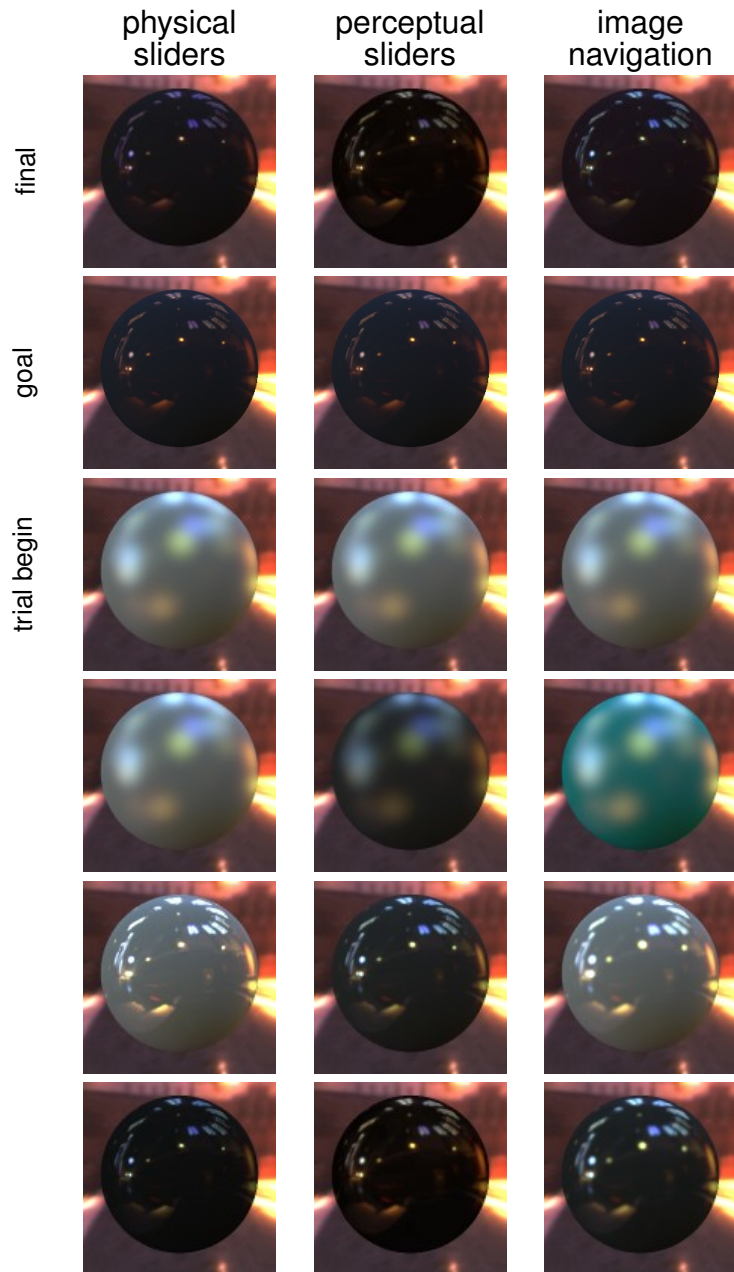
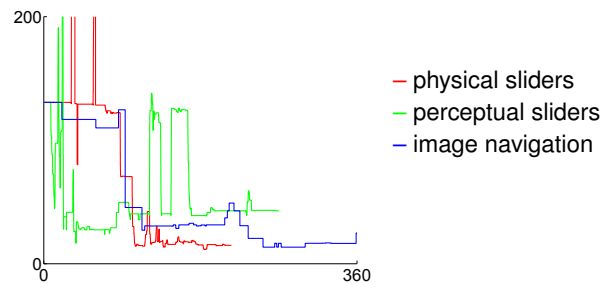


image
navigation

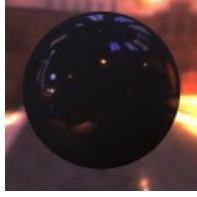
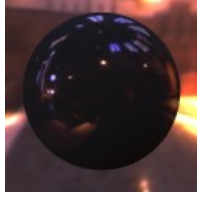
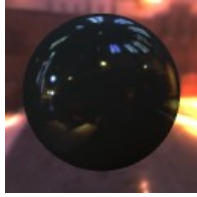


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

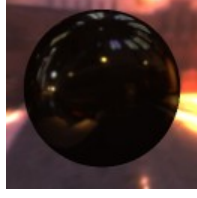
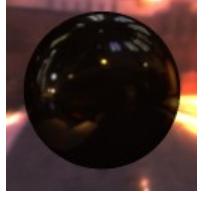
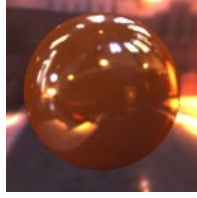
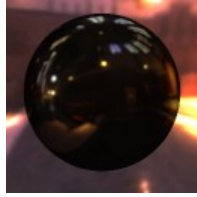
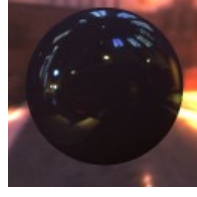
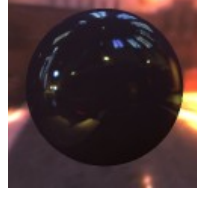
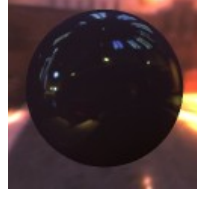
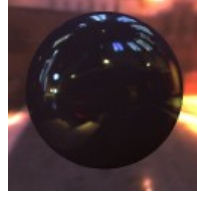
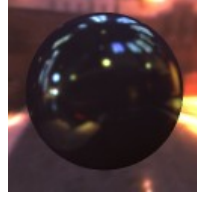
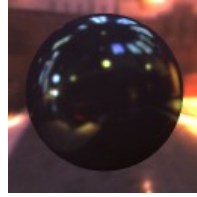


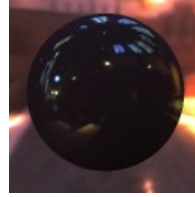
image
navigation



physical
sliders

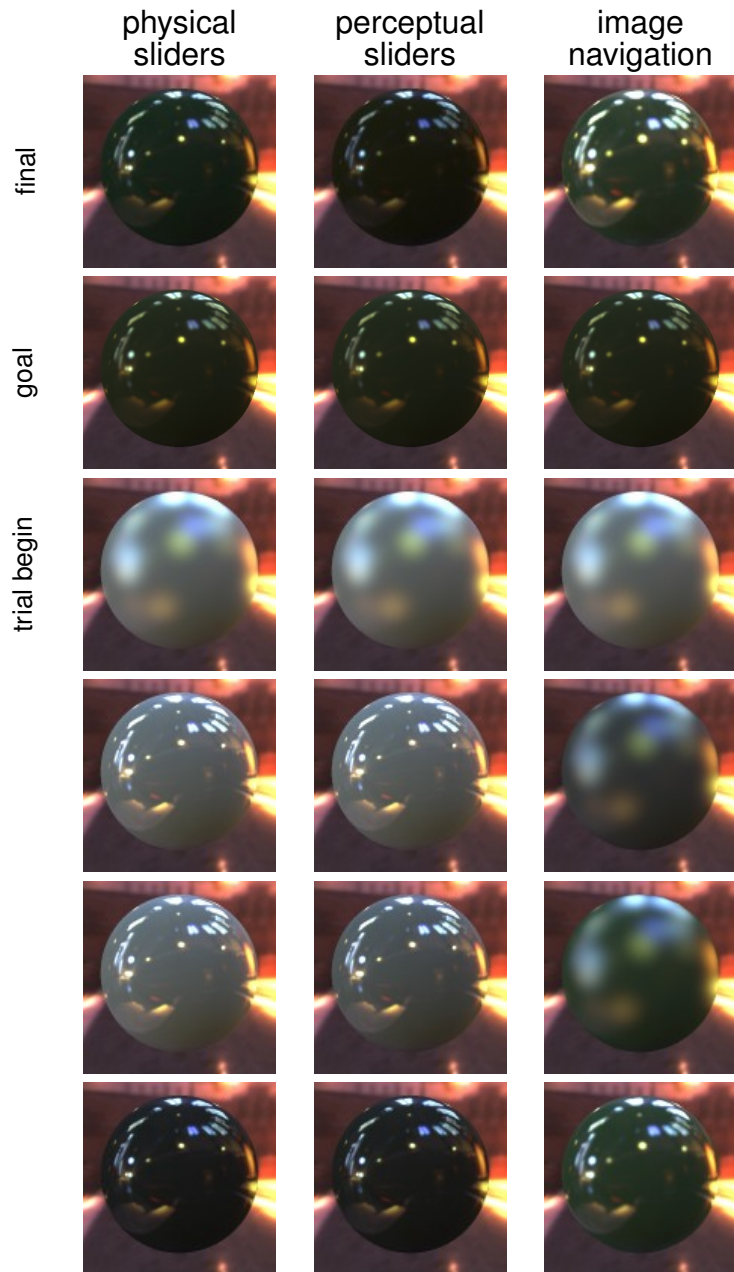
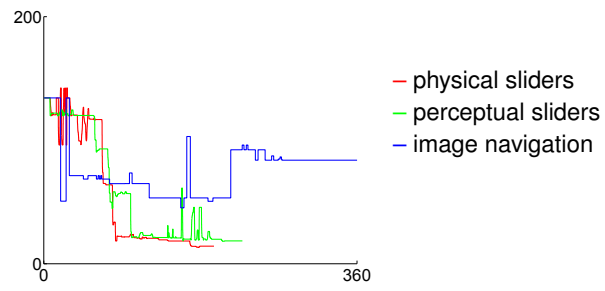
perceptual
sliders

image
navigation

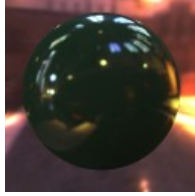
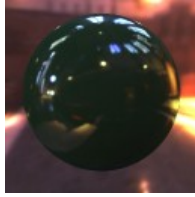


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

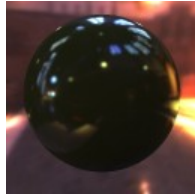
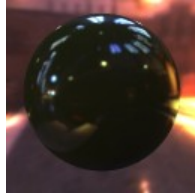
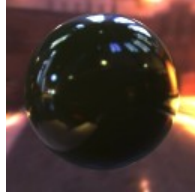
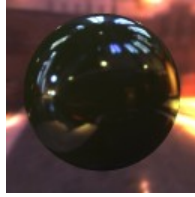
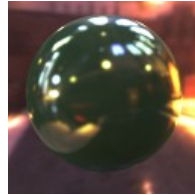
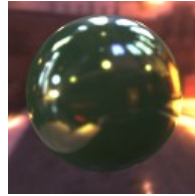
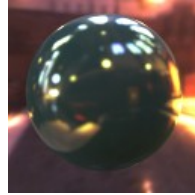
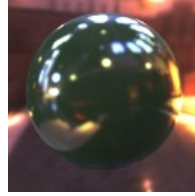
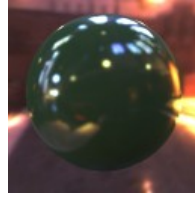
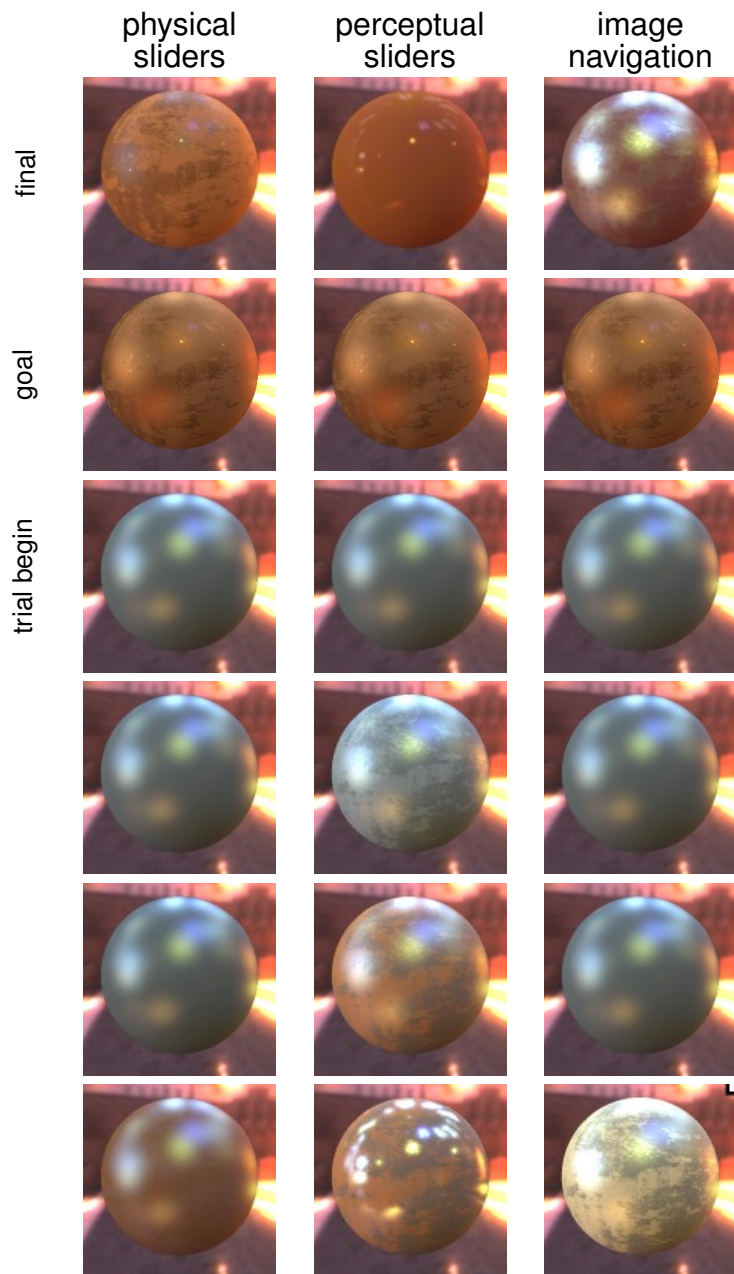
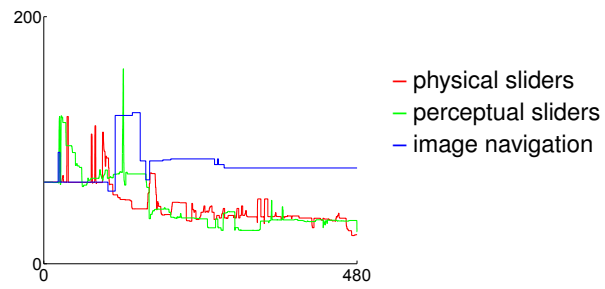


image
navigation

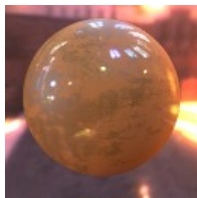
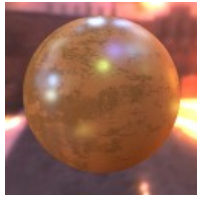
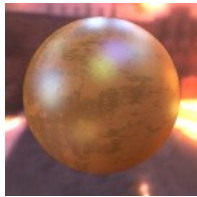
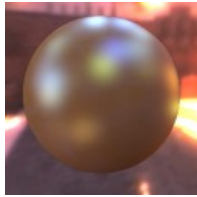


Trial 6

Error Over Time



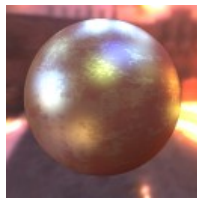
physical
sliders



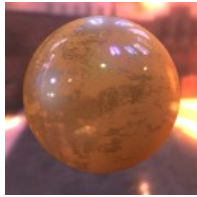
perceptual
sliders



image
navigation



physical
sliders

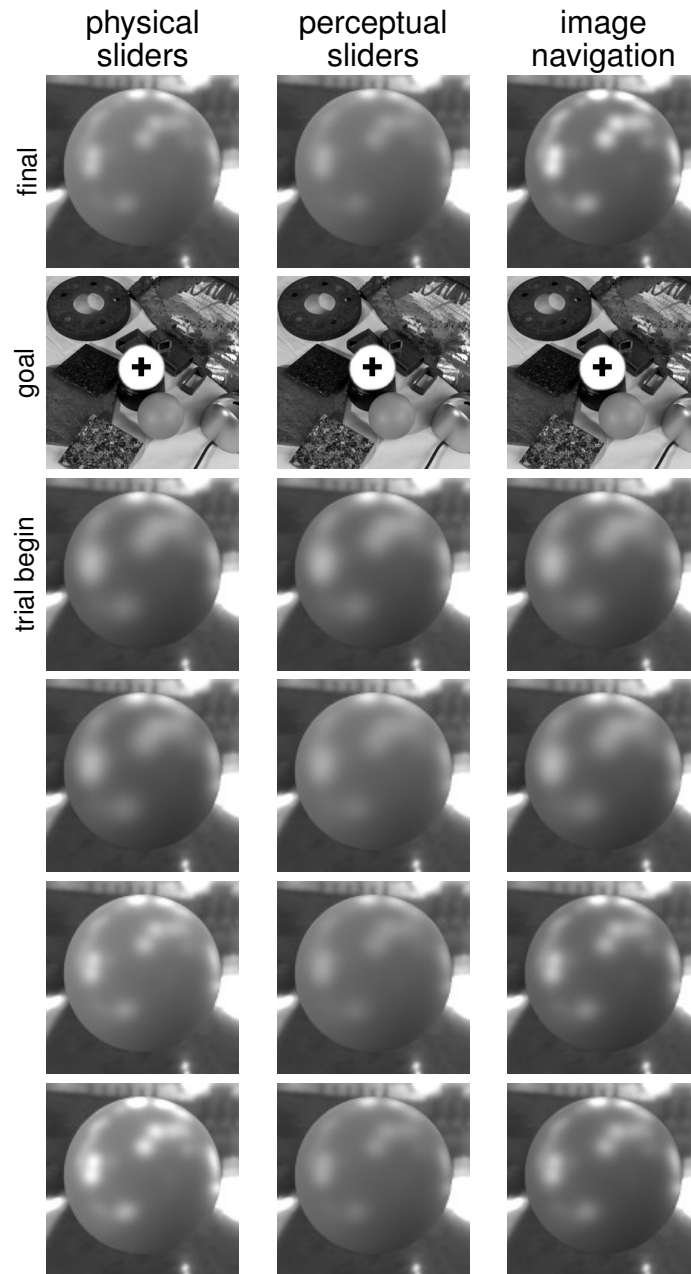


perceptual
sliders

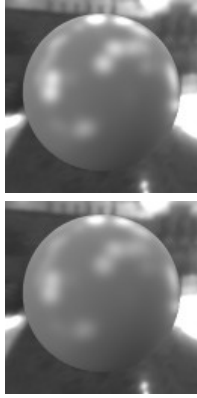


image
navigation

Trial 7



physical
sliders



perceptual
sliders

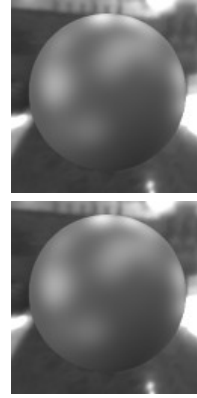
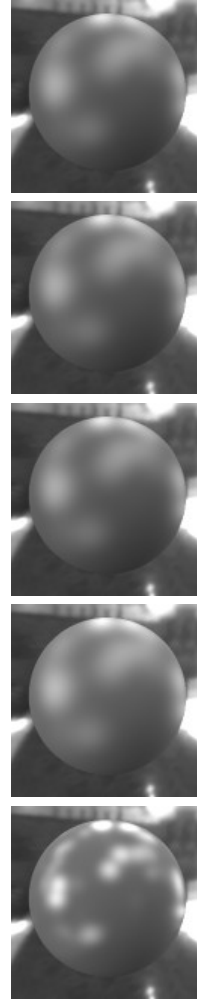
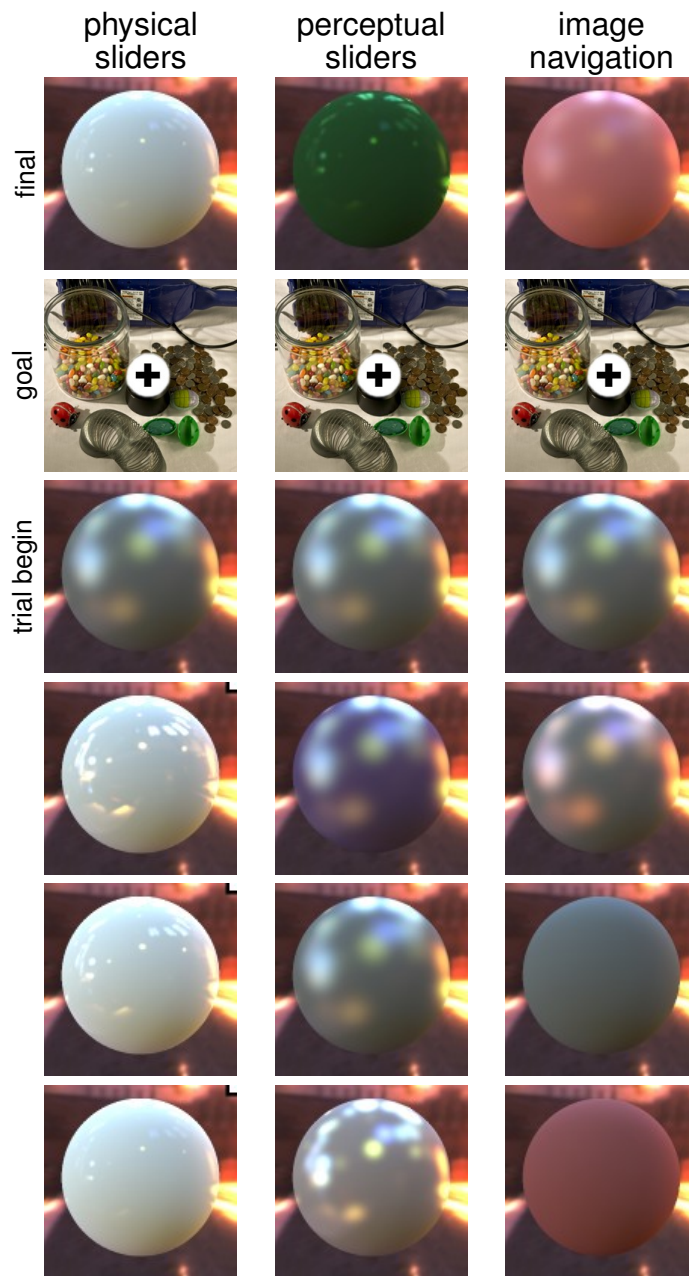


image
navigation



Trial 8



physical
sliders



perceptual
sliders

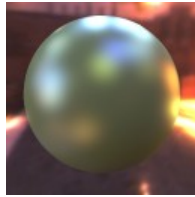
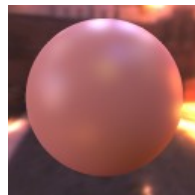
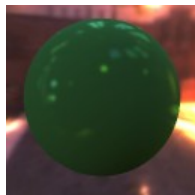
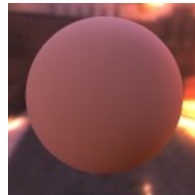
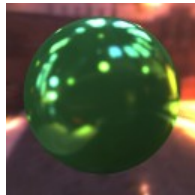
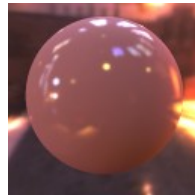
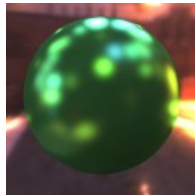
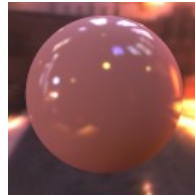
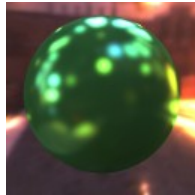


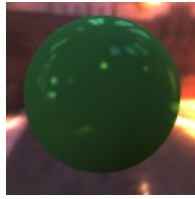
image
navigation



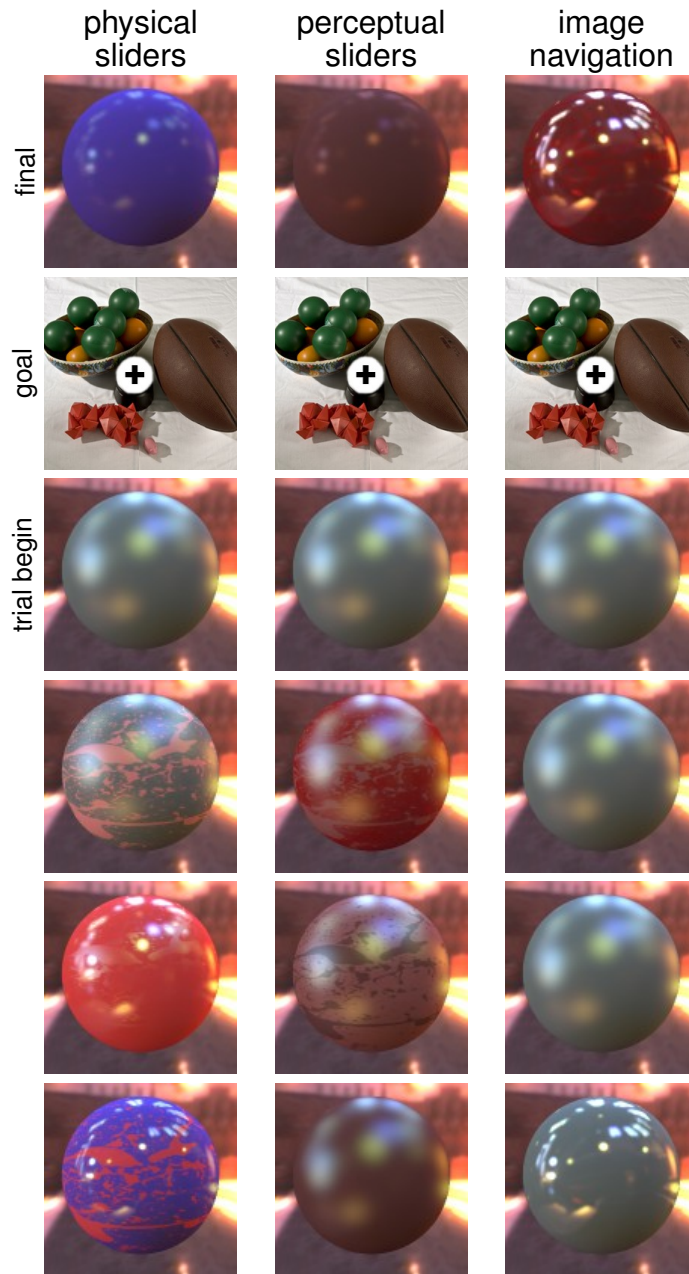
physical
sliders

perceptual
sliders

image
navigation



Trial 9



physical
sliders



perceptual
sliders

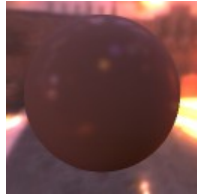
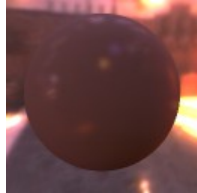
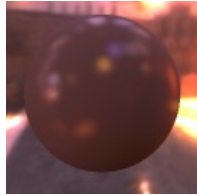
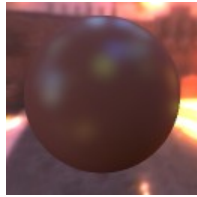
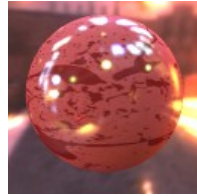
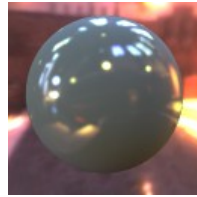
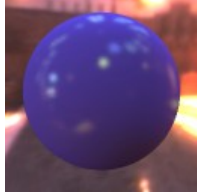
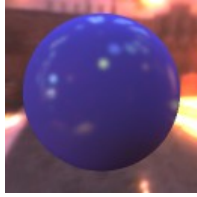


image
navigation

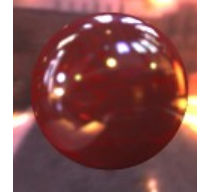
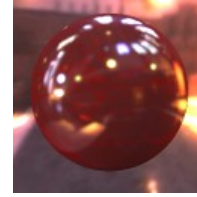


physical
sliders



perceptual
sliders

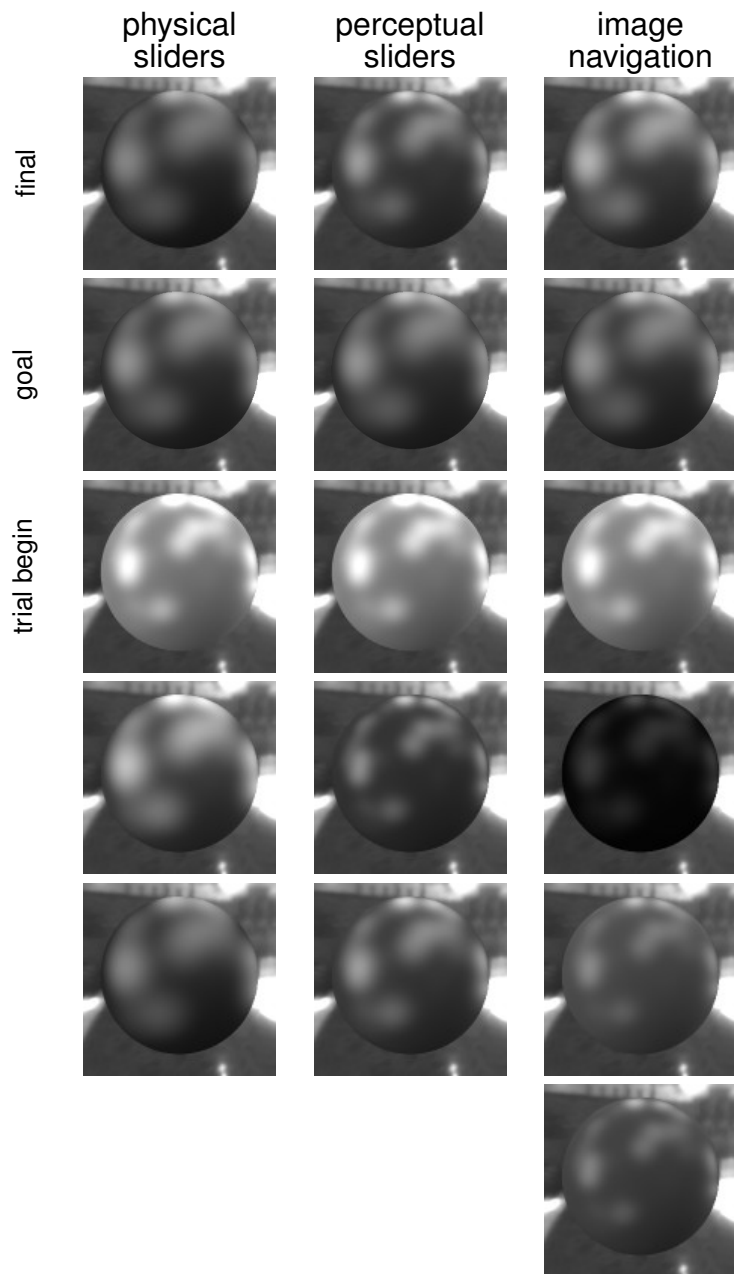
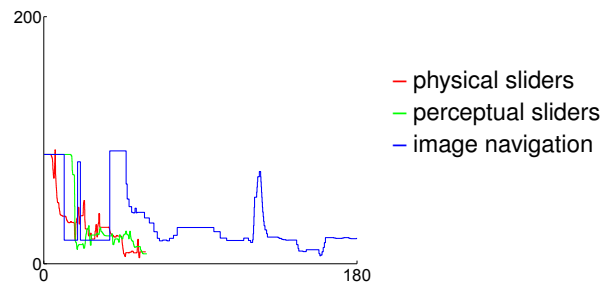
image
navigation



Subject 7

Trial 1

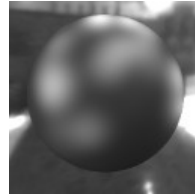
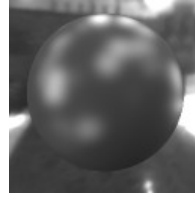
Error Over Time



physical
sliders

perceptual
sliders

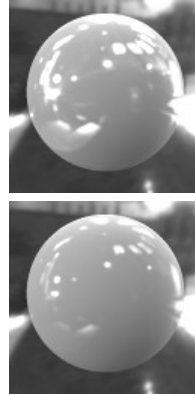
image
navigation



physical
sliders

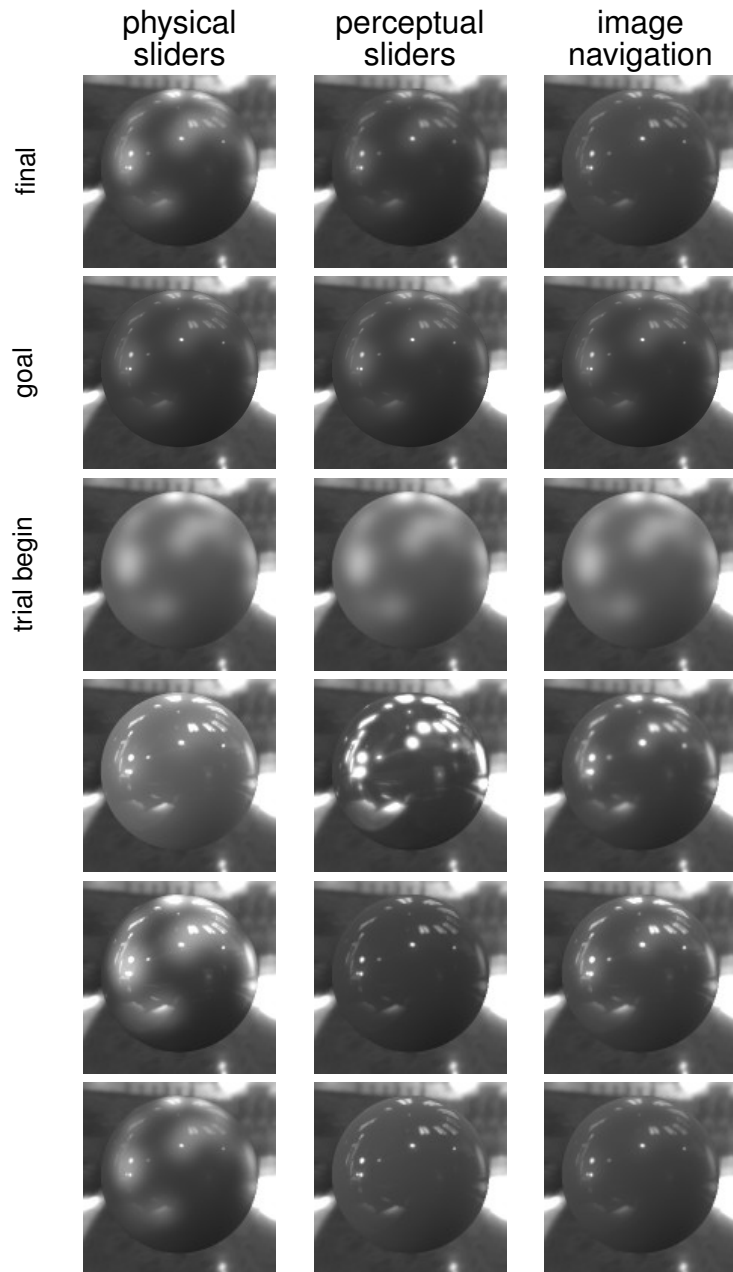
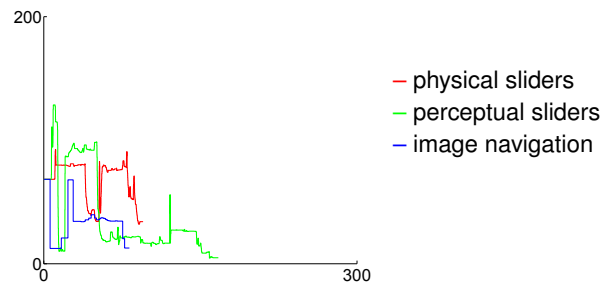
perceptual
sliders

image
navigation



Trial 3

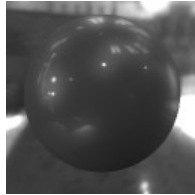
Error Over Time



physical
sliders

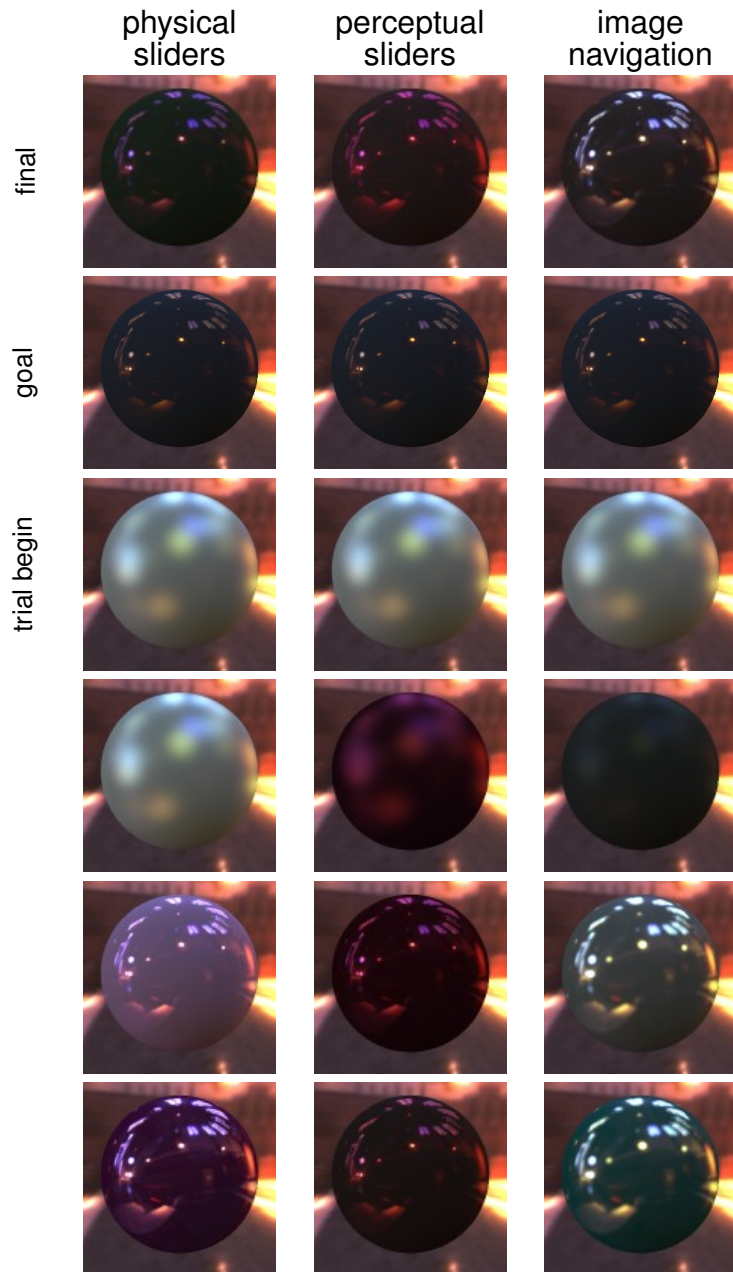
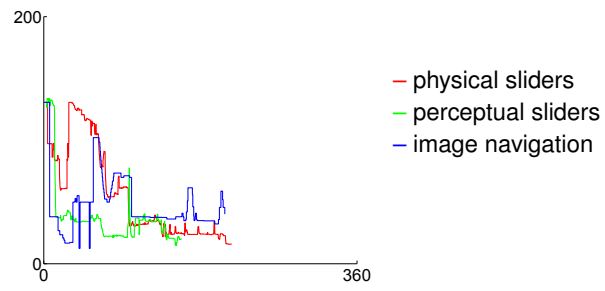
perceptual
sliders

image
navigation

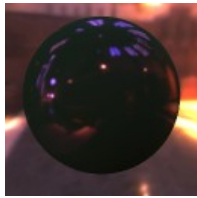
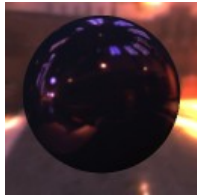
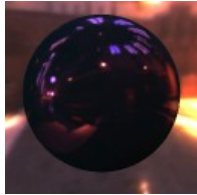
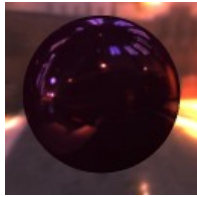


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

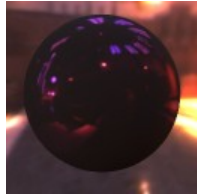
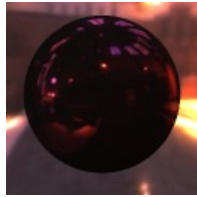
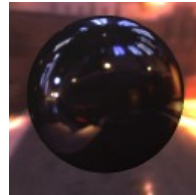
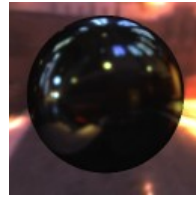
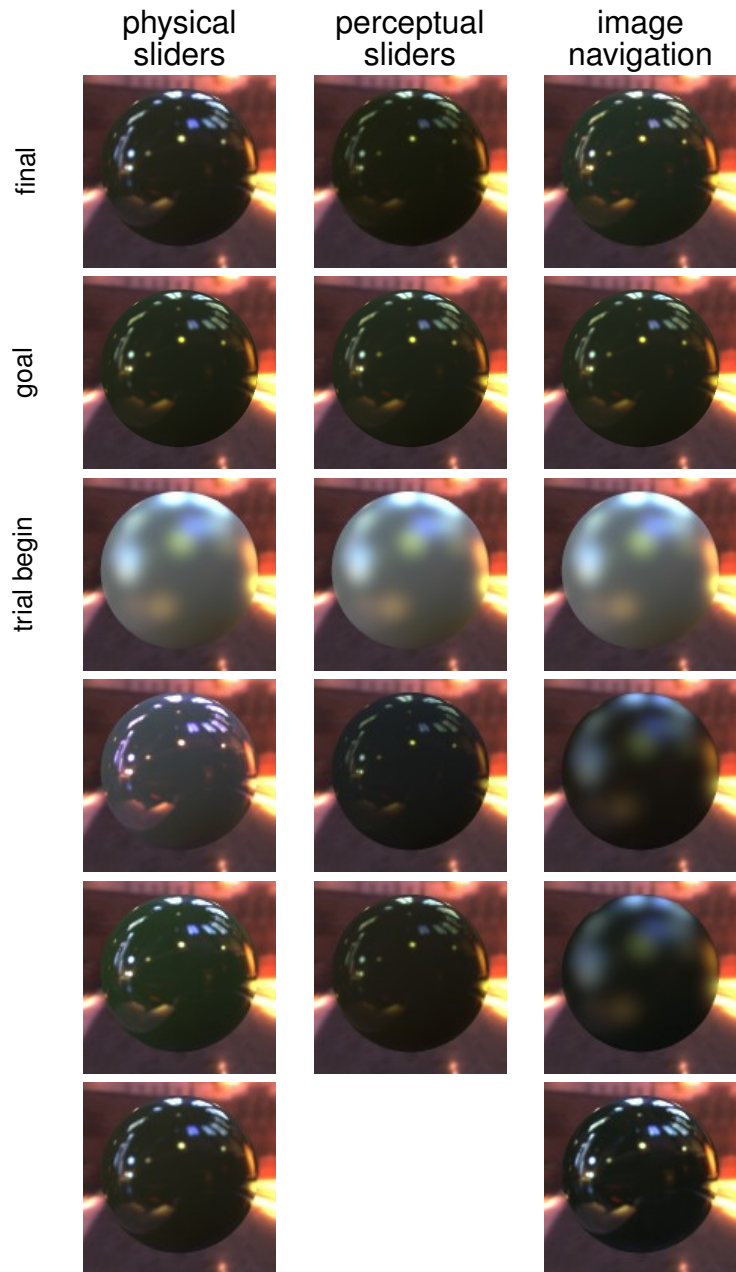
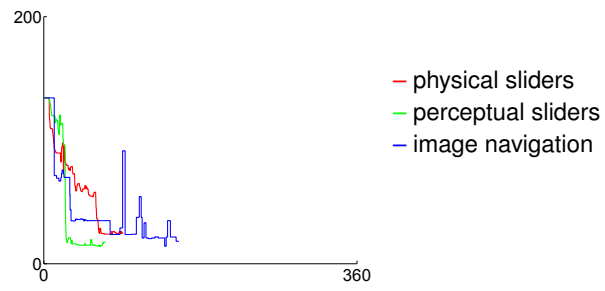


image
navigation



Trial 5

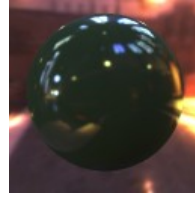
Error Over Time



physical
sliders

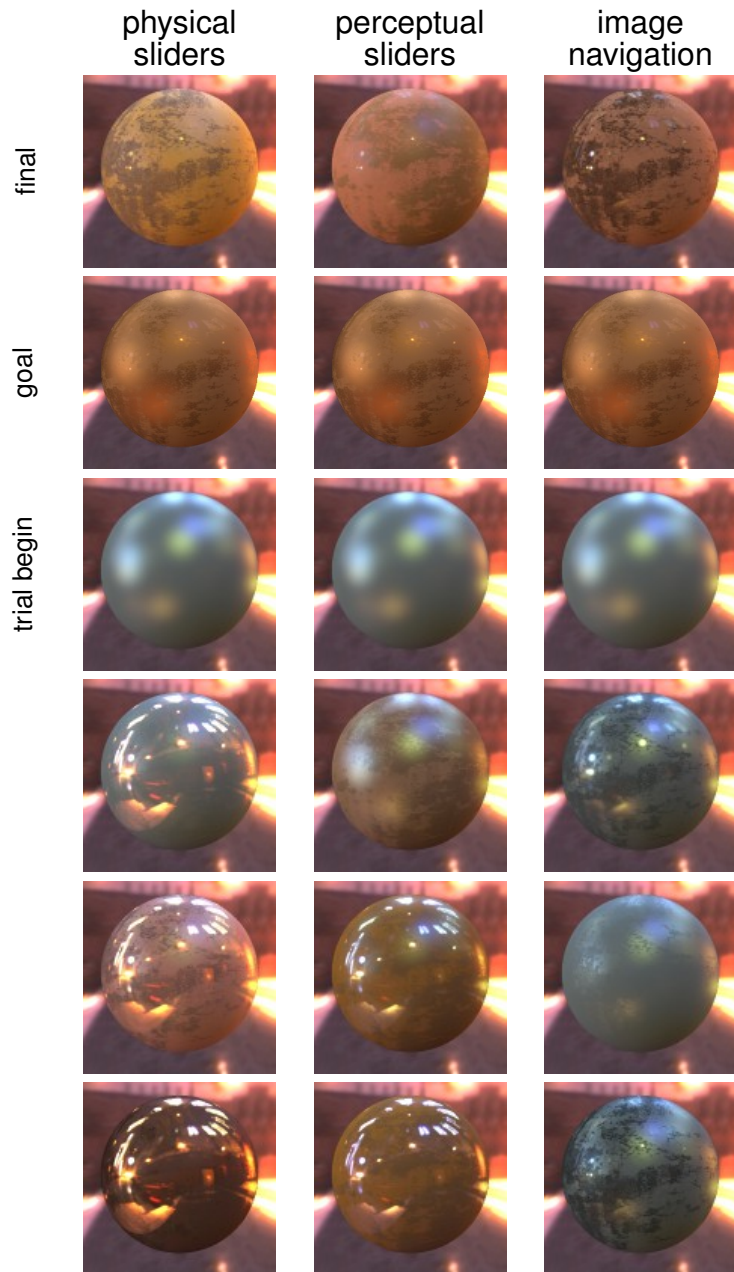
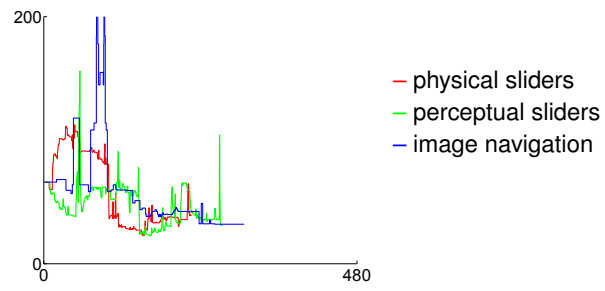
perceptual
sliders

image
navigation

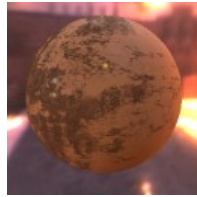


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

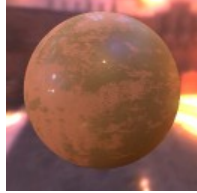
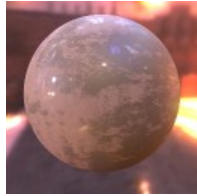
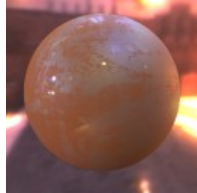
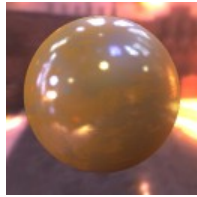
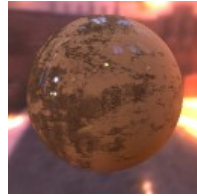
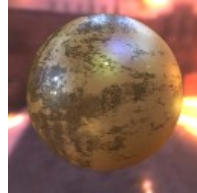
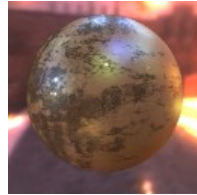
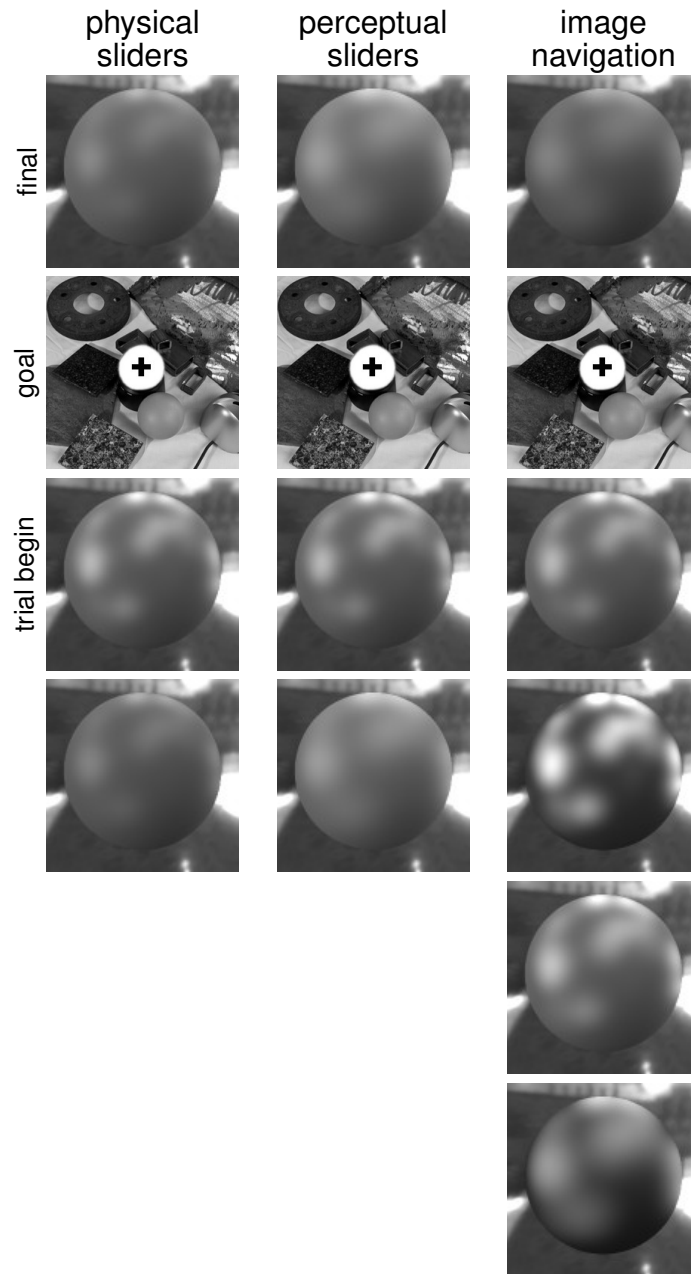


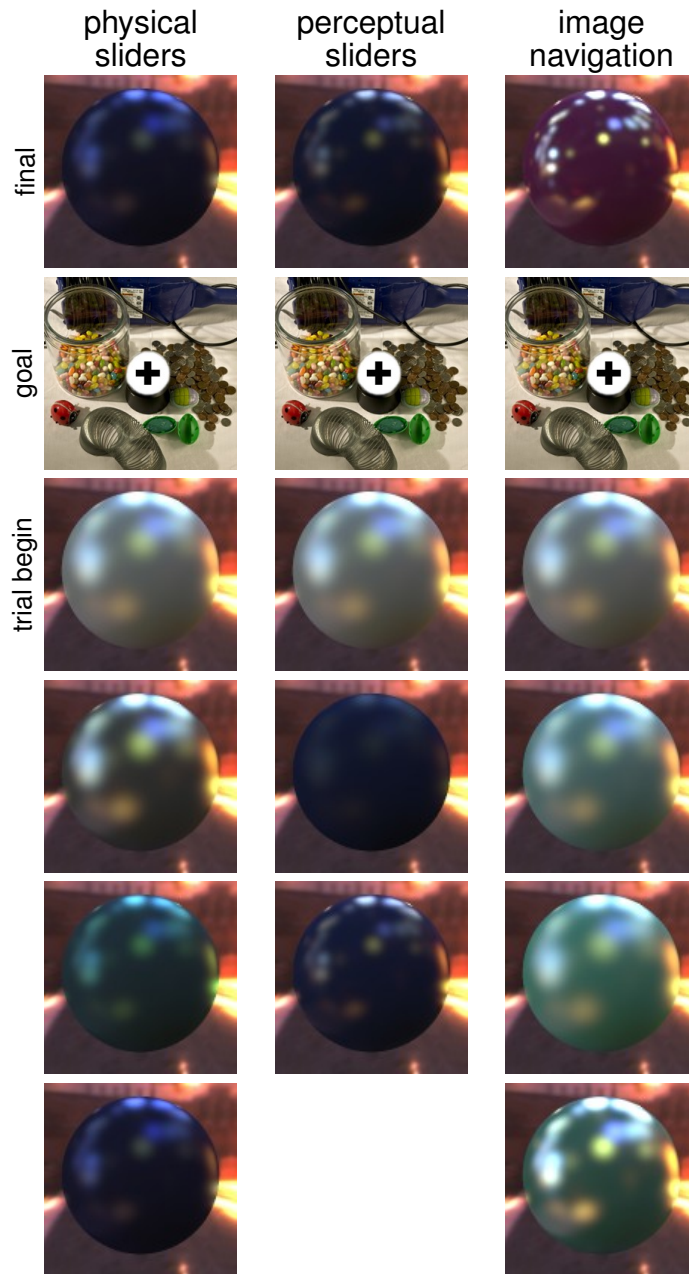
image
navigation



Trial 7



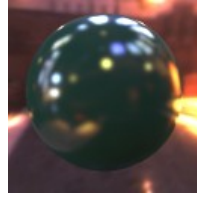
Trial 8



physical
sliders

perceptual
sliders

image
navigation



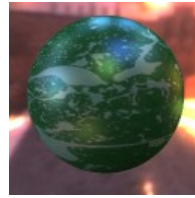
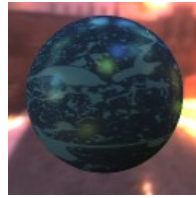
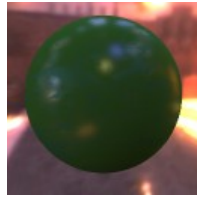
Trial 9

physical
sliders

perceptual
sliders

image
navigation

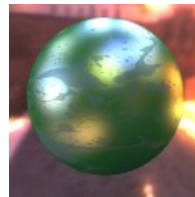
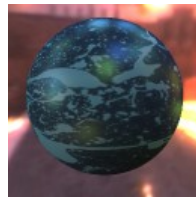
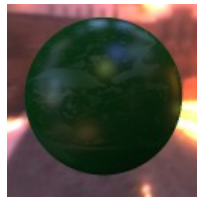
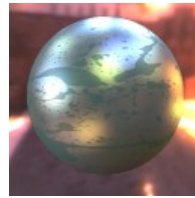
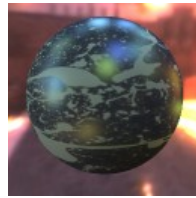
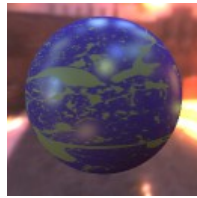
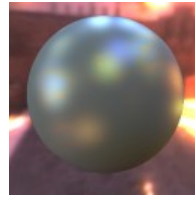
final



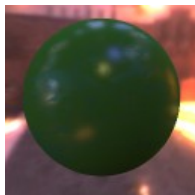
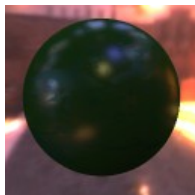
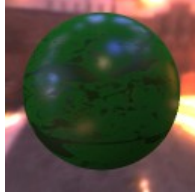
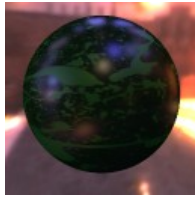
goal



trial
begin



physical
sliders



perceptual
sliders



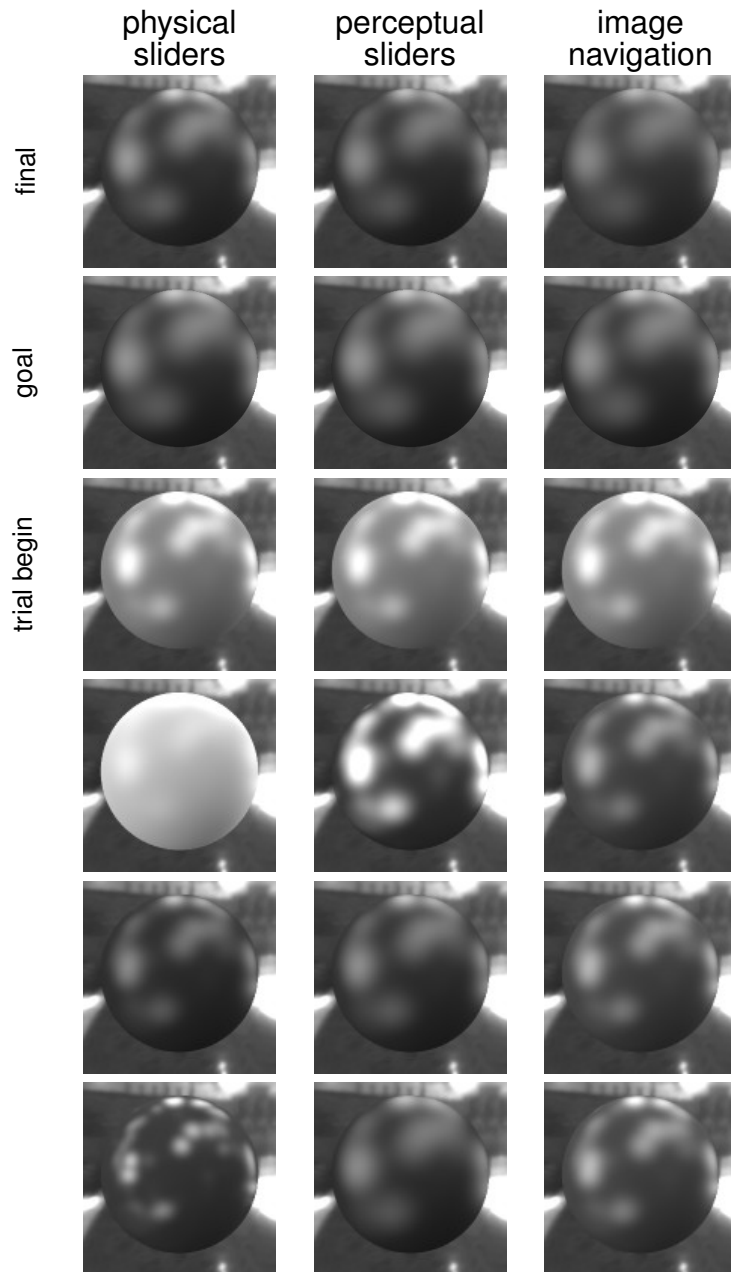
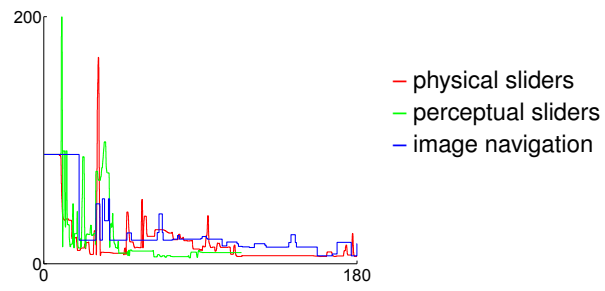
image
navigation



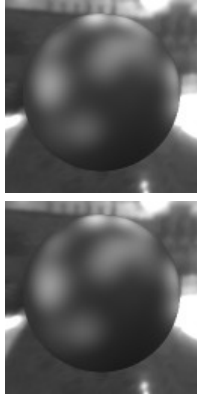
Subject 8

Trial 1

Error Over Time

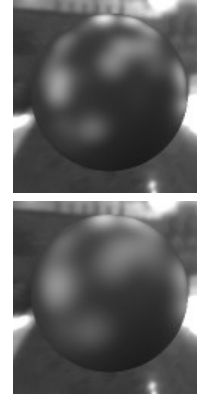


physical
sliders



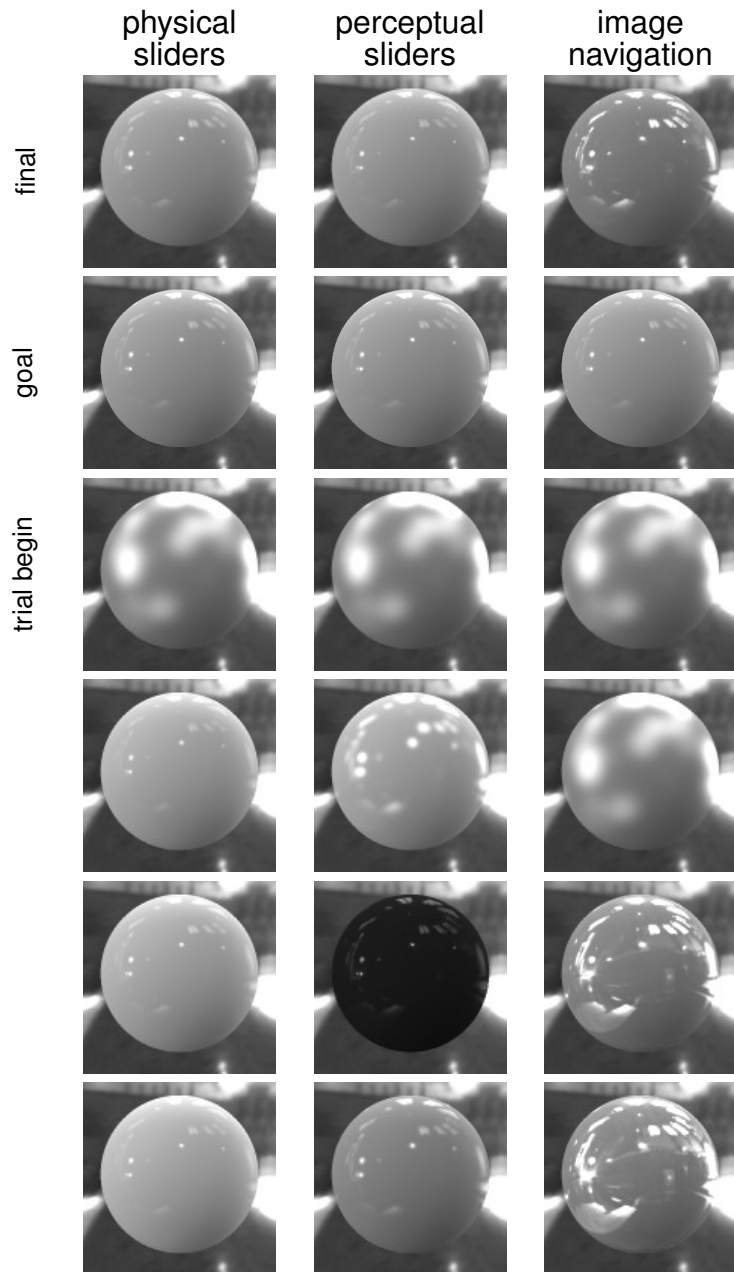
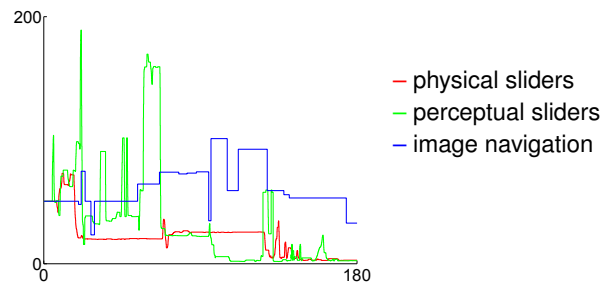
perceptual
sliders

image
navigation



Trial 2

Error Over Time



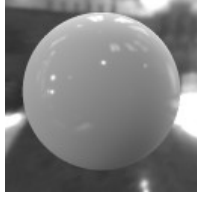
physical
sliders



perceptual
sliders

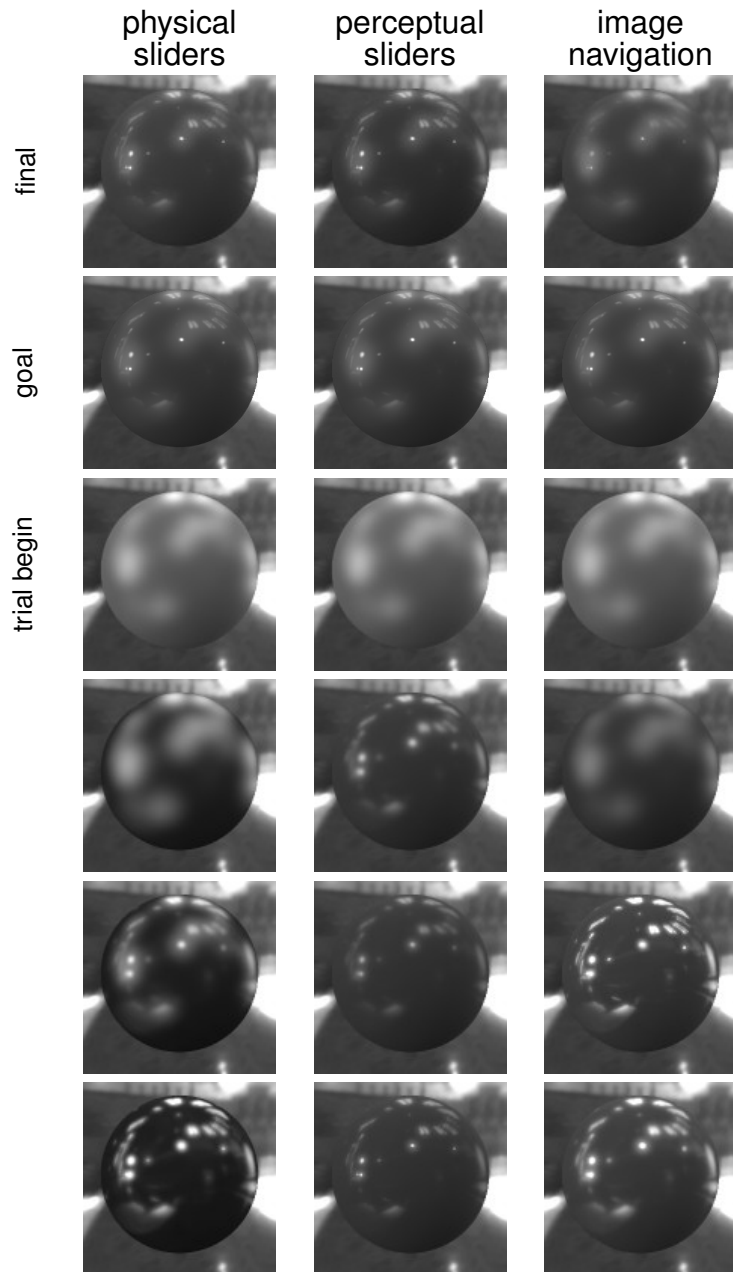
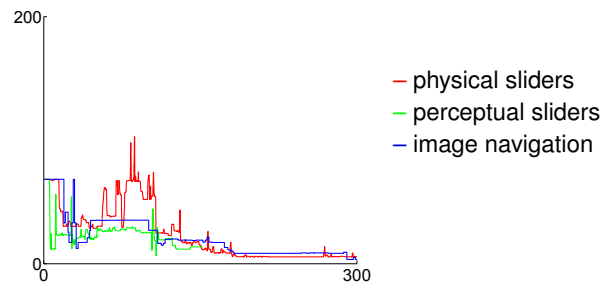


image
navigation

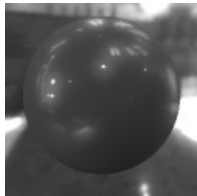
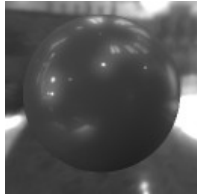
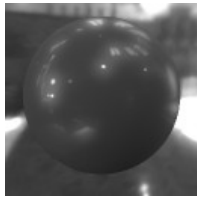
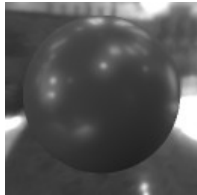
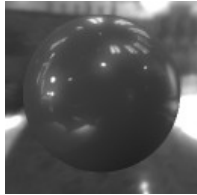
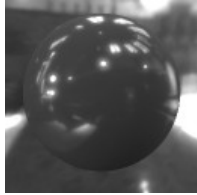


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

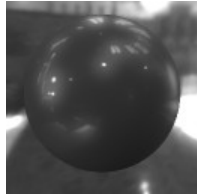
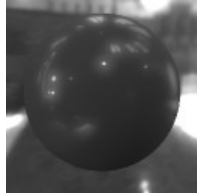
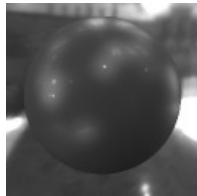
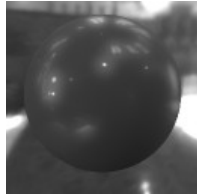
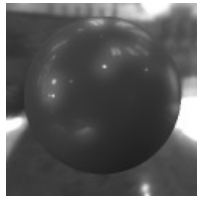
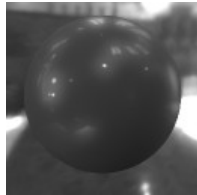
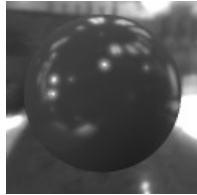
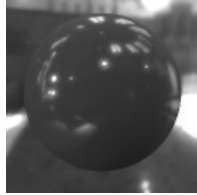
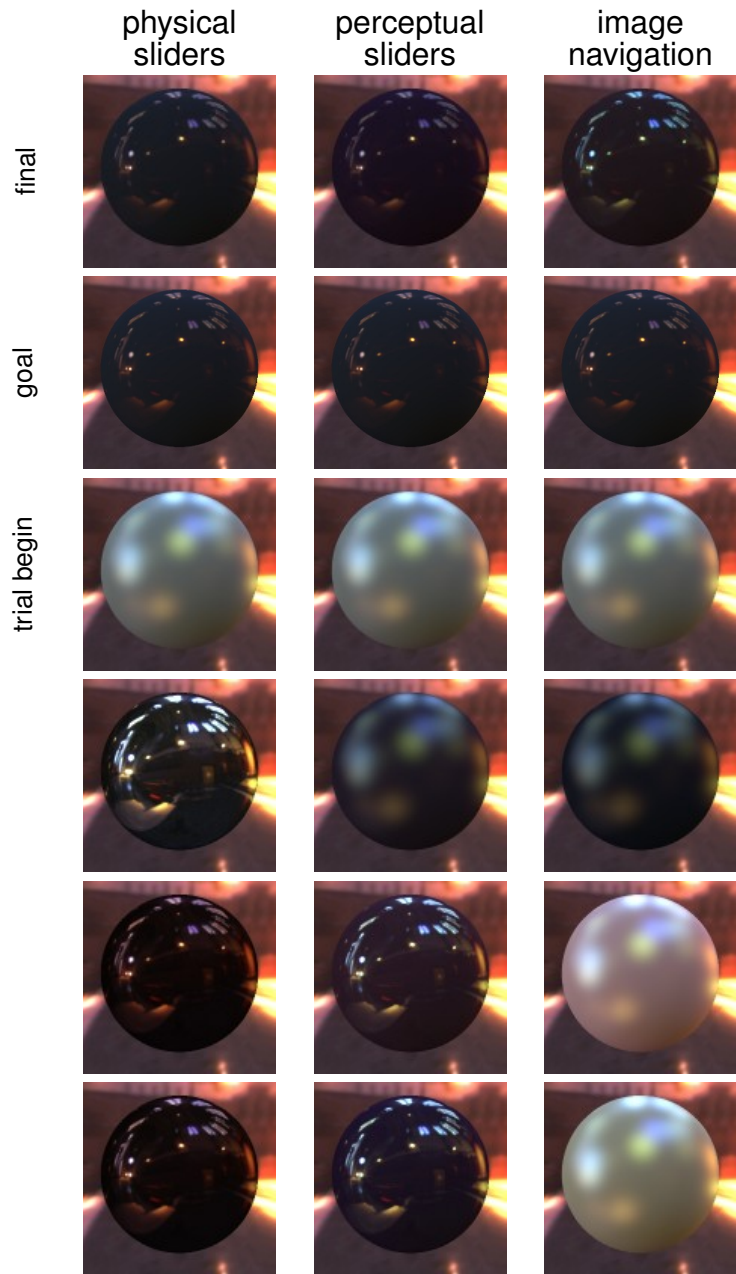
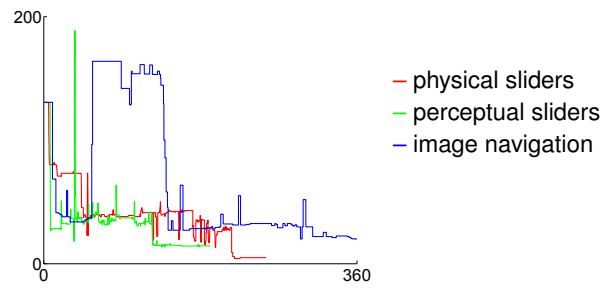


image
navigation

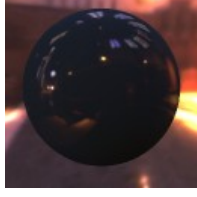
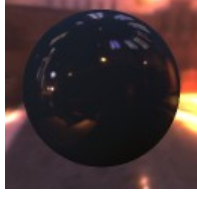
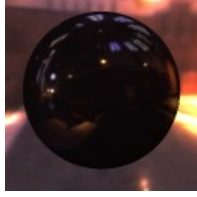
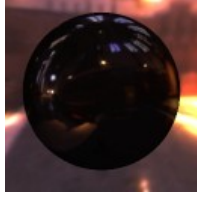
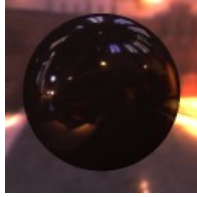


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

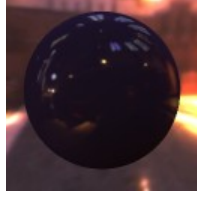
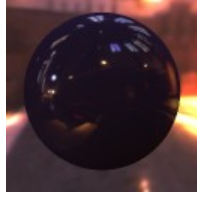
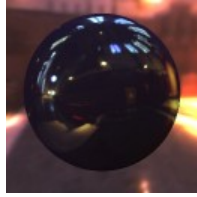
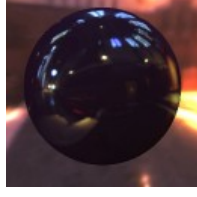
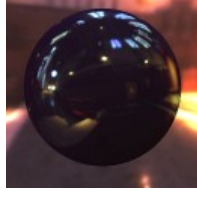
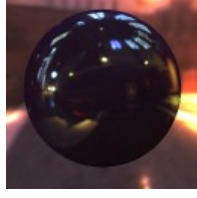
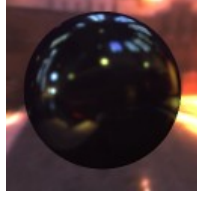
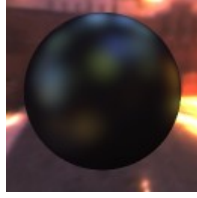
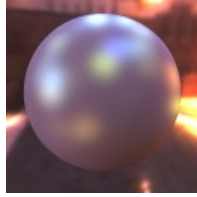


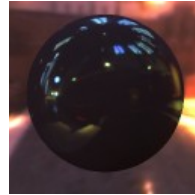
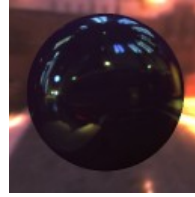
image
navigation



physical
sliders

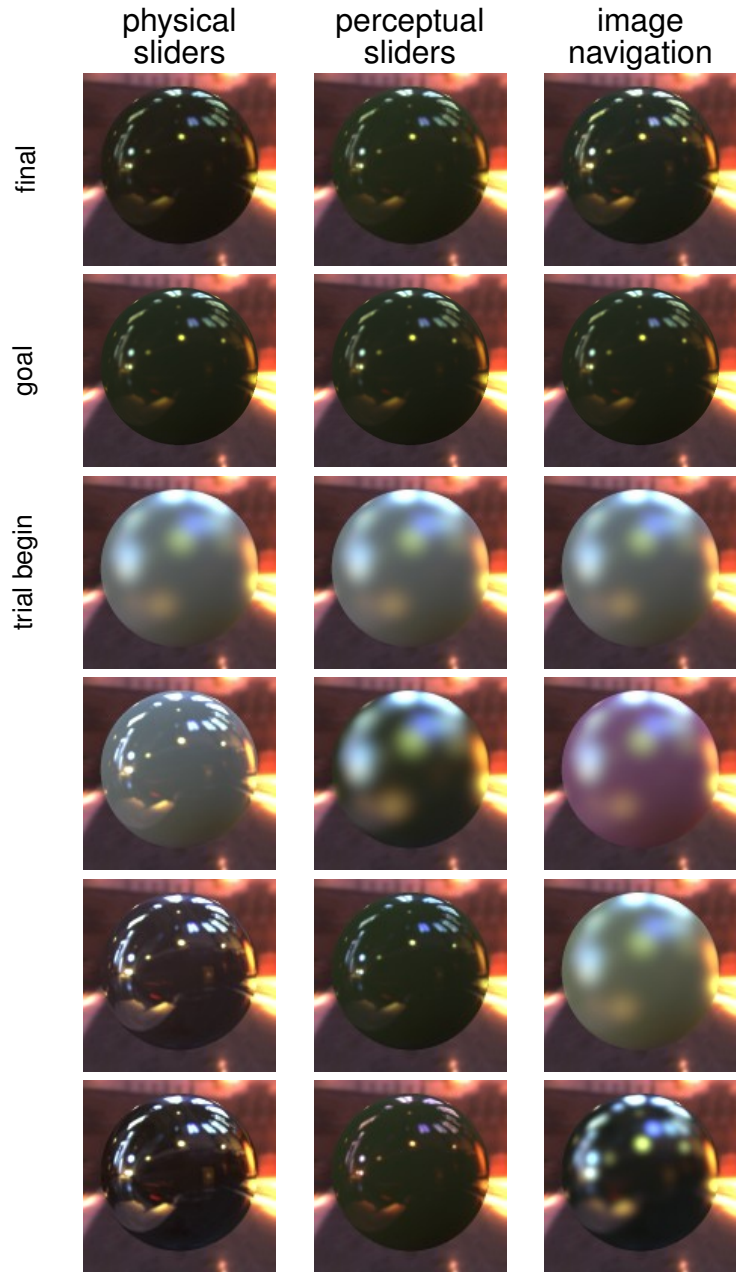
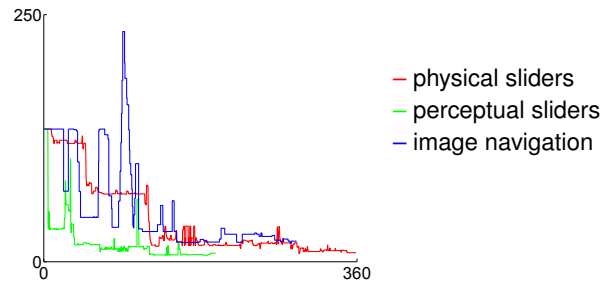
perceptual
sliders

image
navigation

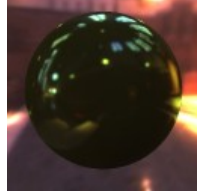
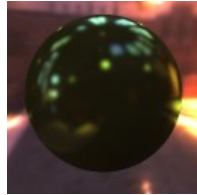
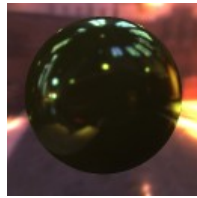
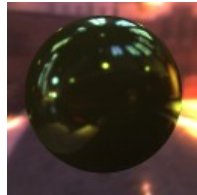
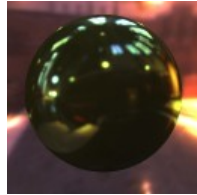
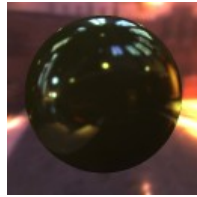


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

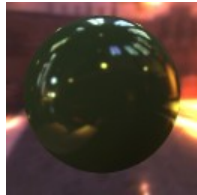
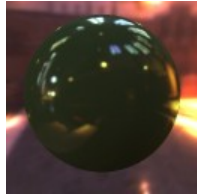
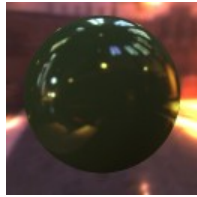
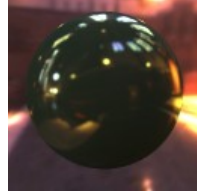
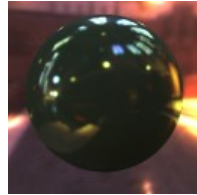
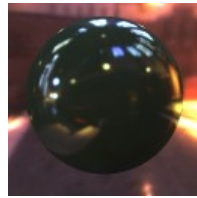
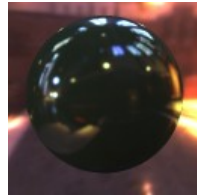
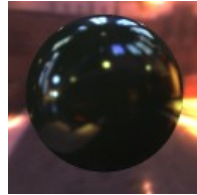
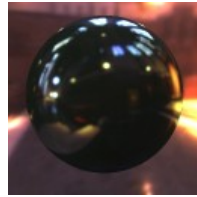
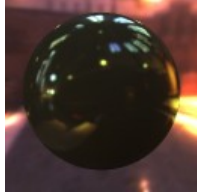
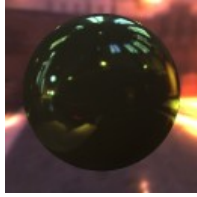


image
navigation



physical
sliders

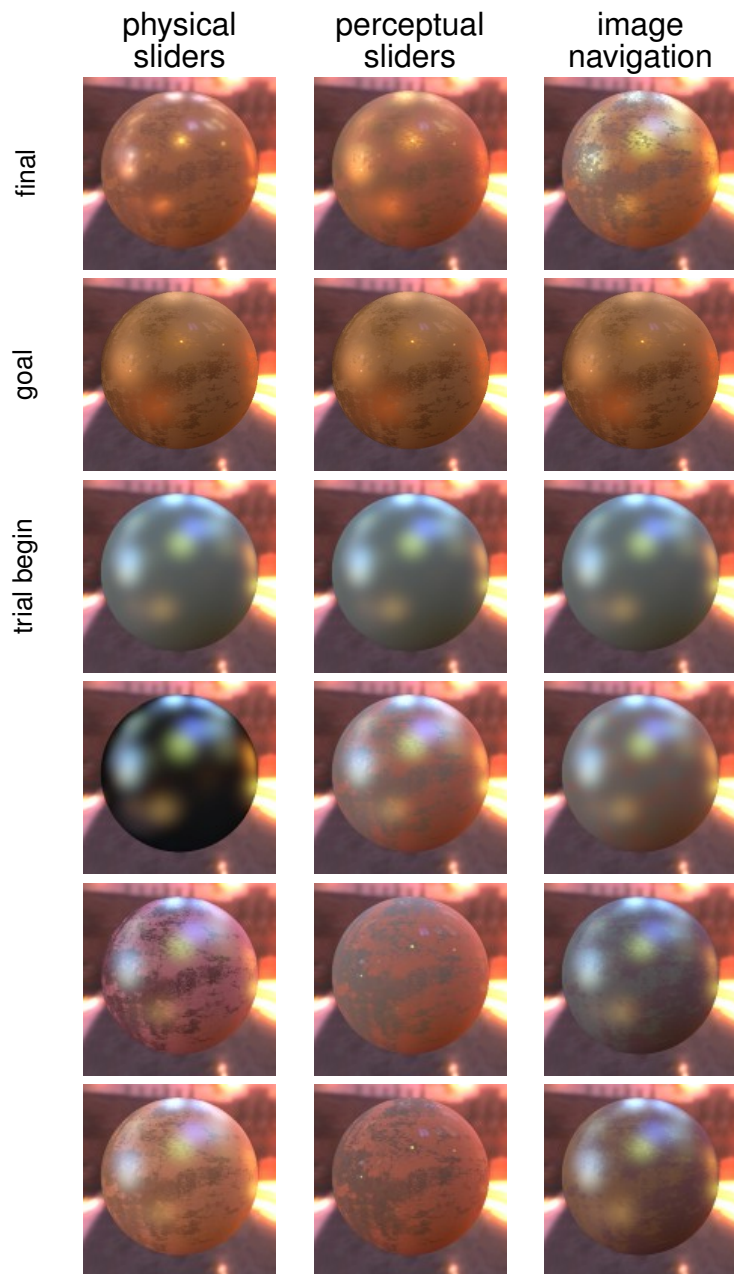
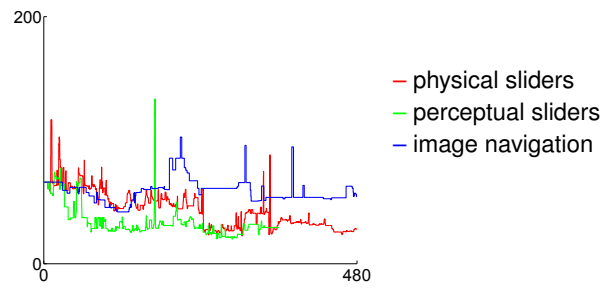


perceptual
sliders

image
navigation

Trial 6

Error Over Time



physical
sliders



perceptual
sliders

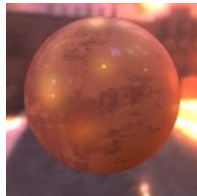
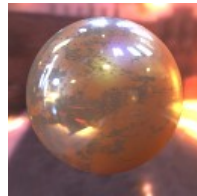
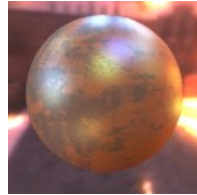
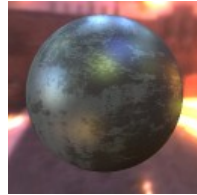
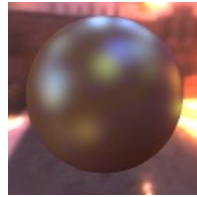
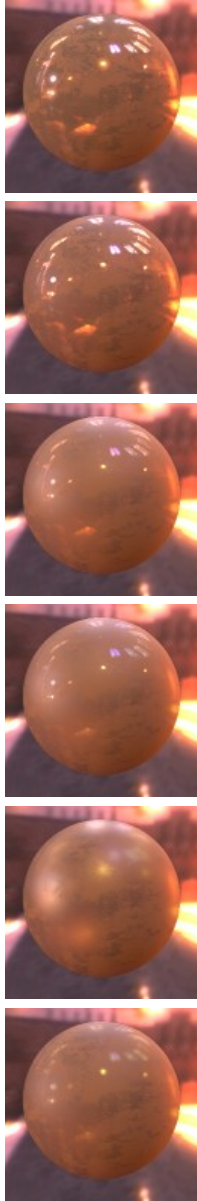


image
navigation



physical
sliders



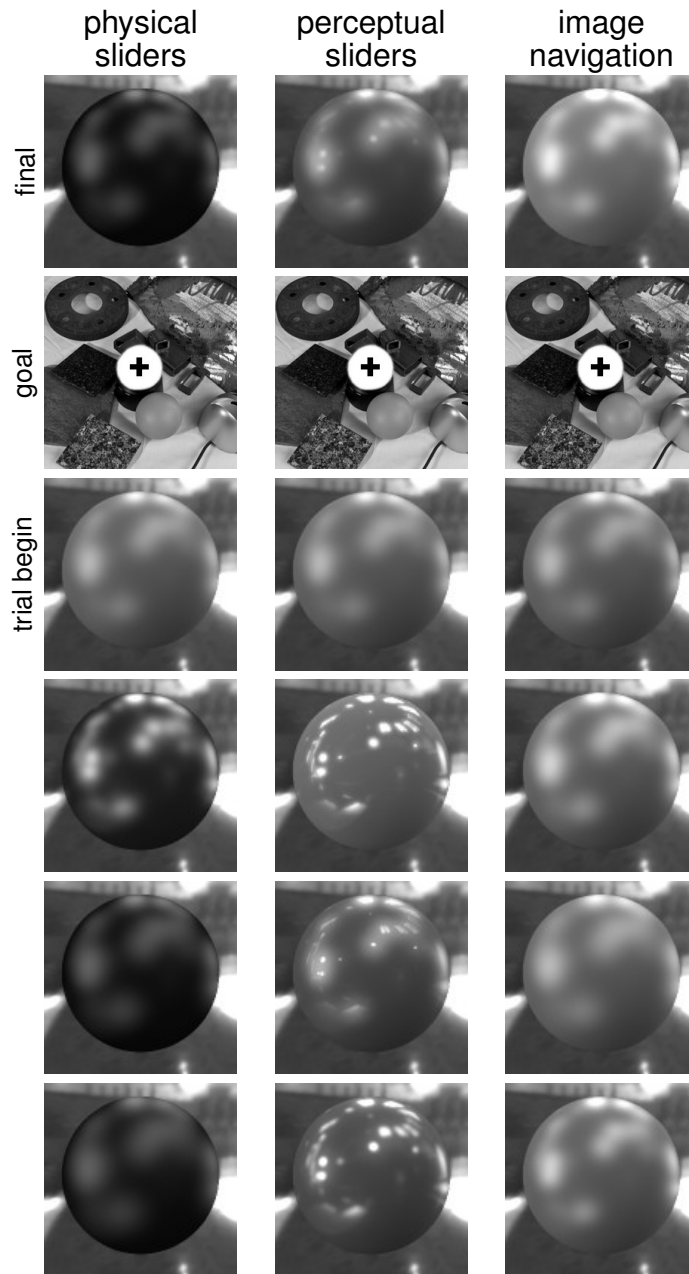
perceptual
sliders



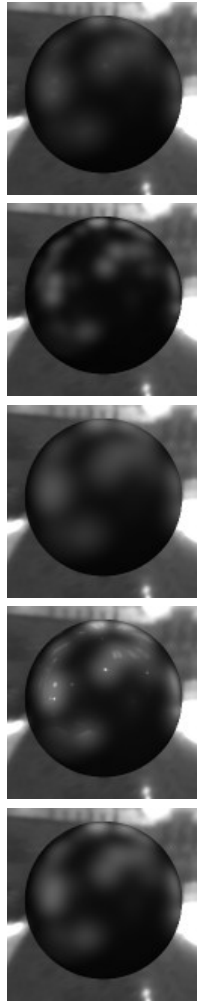
image
navigation



Trial 7



physical
sliders



perceptual
sliders

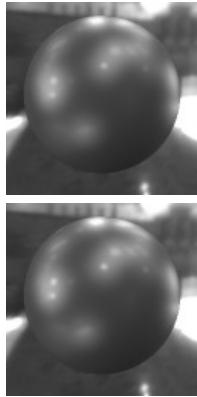
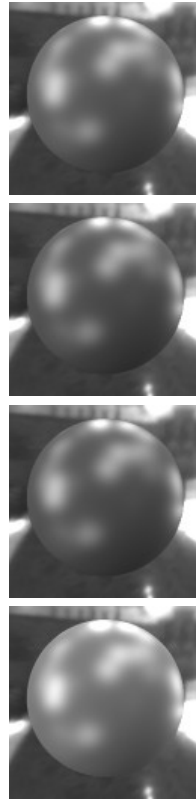
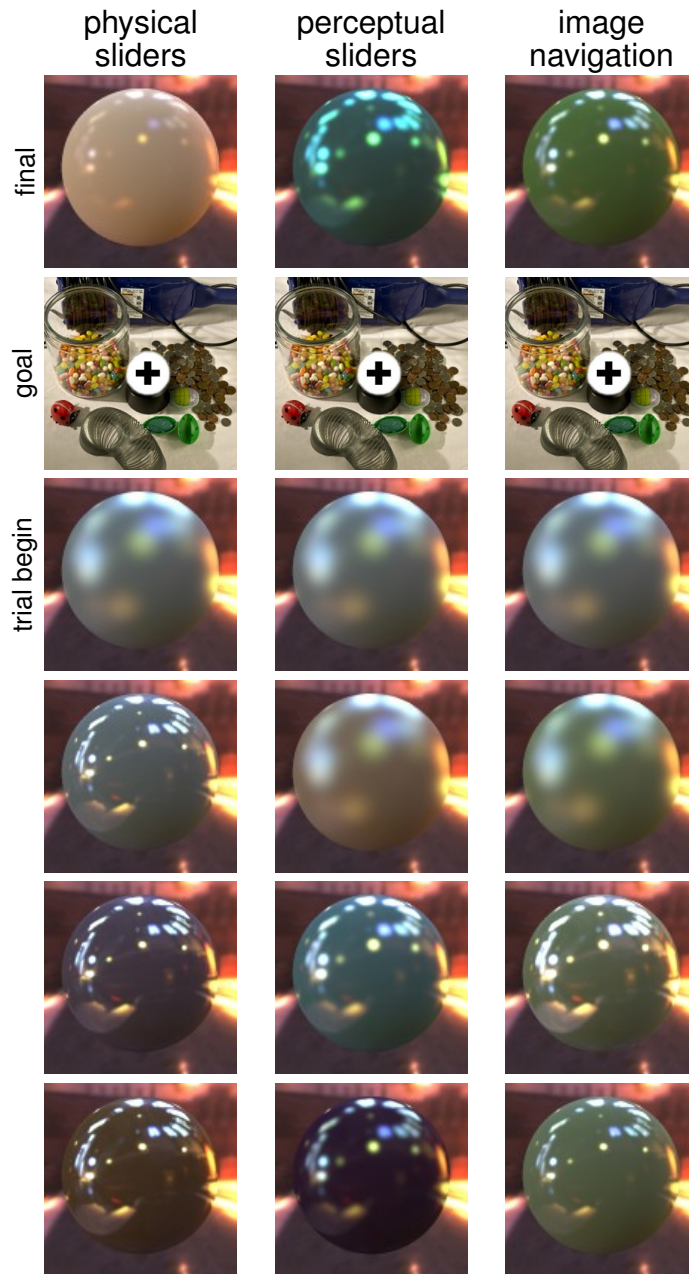


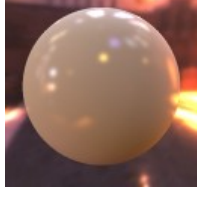
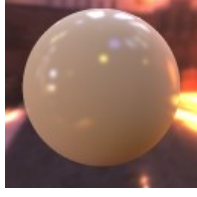
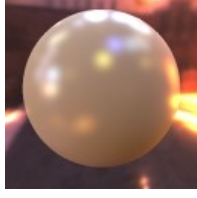
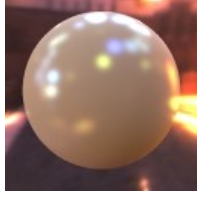
image
navigation



Trial 8



physical
sliders



perceptual
sliders

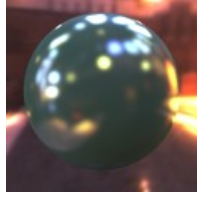
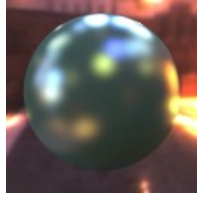
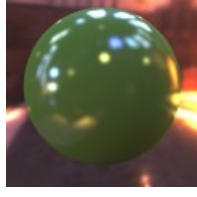
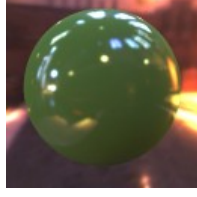
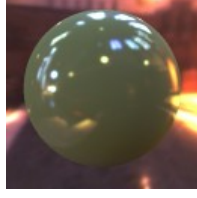
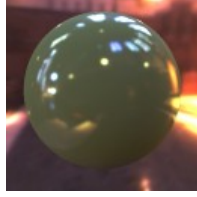
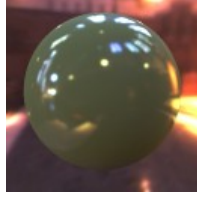
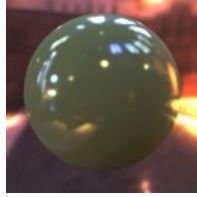


image
navigation



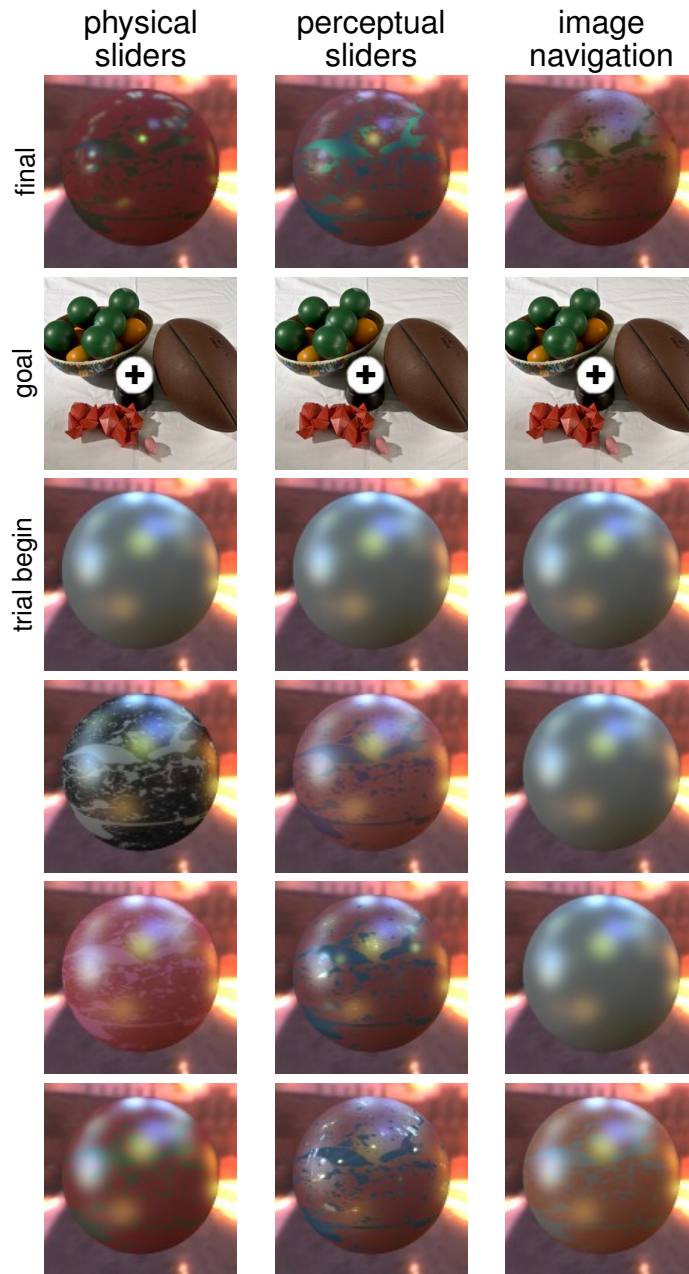
physical
sliders



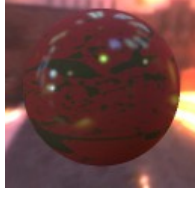
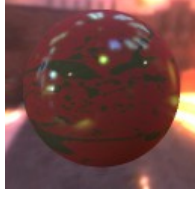
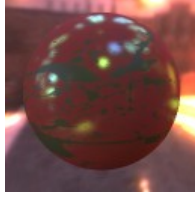
perceptual
sliders

image
navigation

Trial 9



physical
sliders



perceptual
sliders

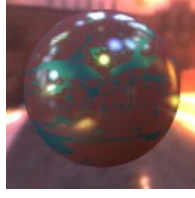
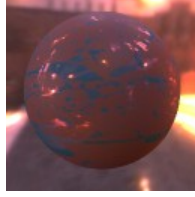
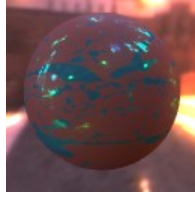
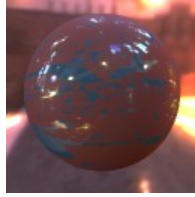
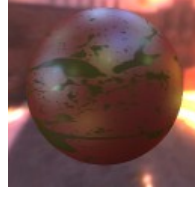
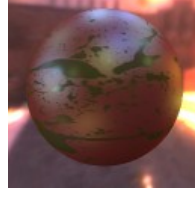
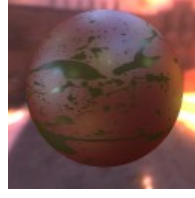
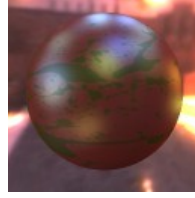
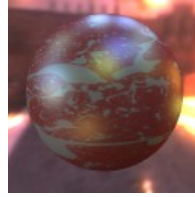


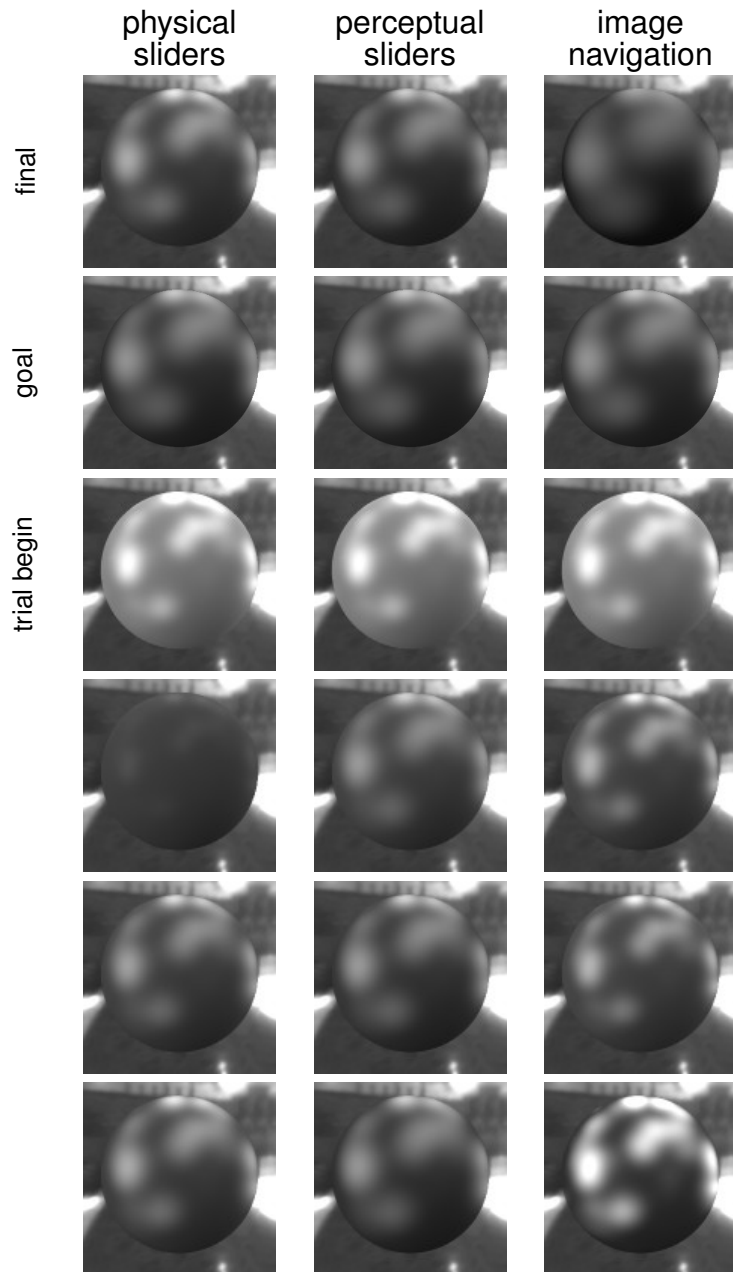
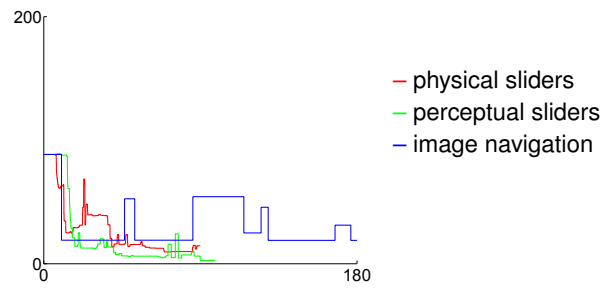
image
navigation



Subject 9

Trial 1

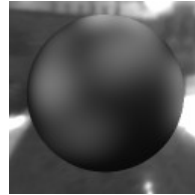
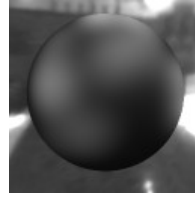
Error Over Time



physical
sliders

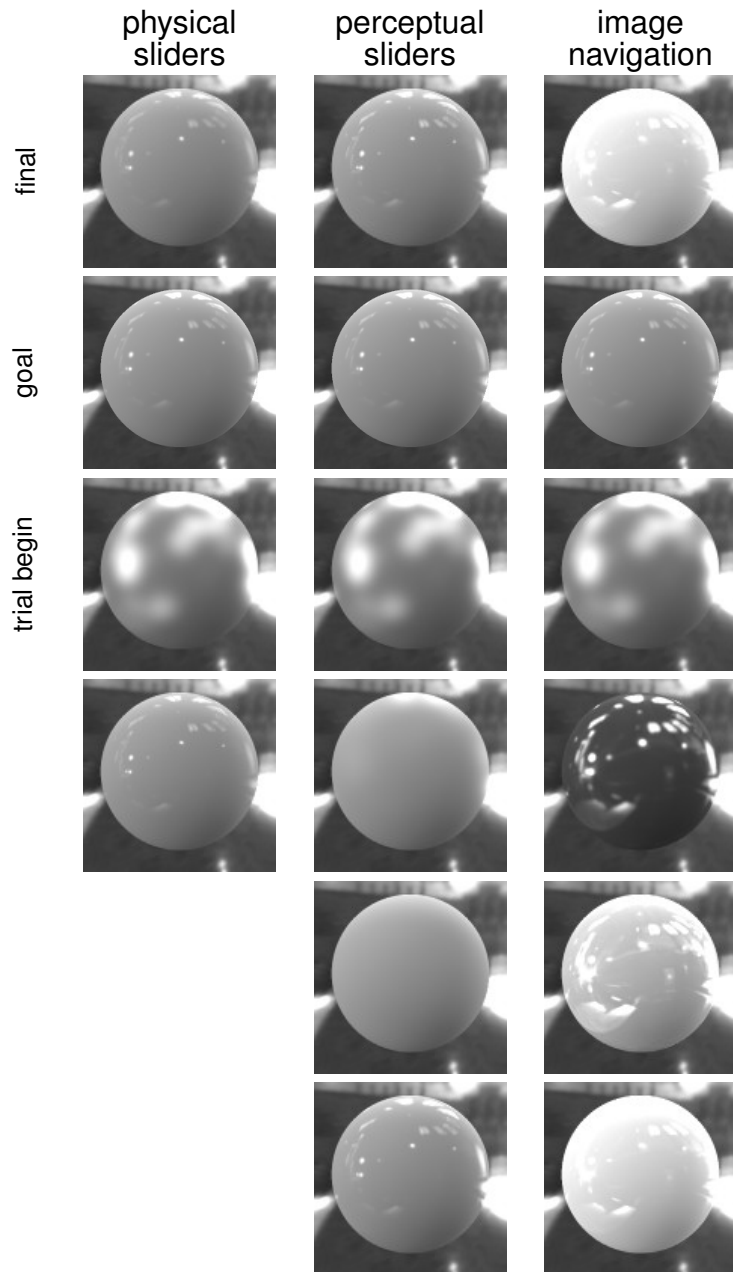
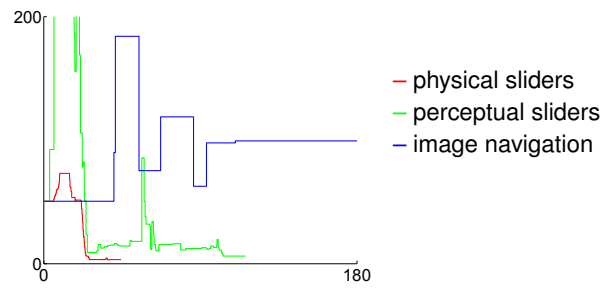
perceptual
sliders

image
navigation



Trial 2

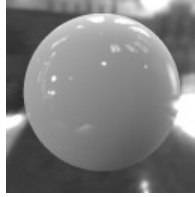
Error Over Time



physical
sliders

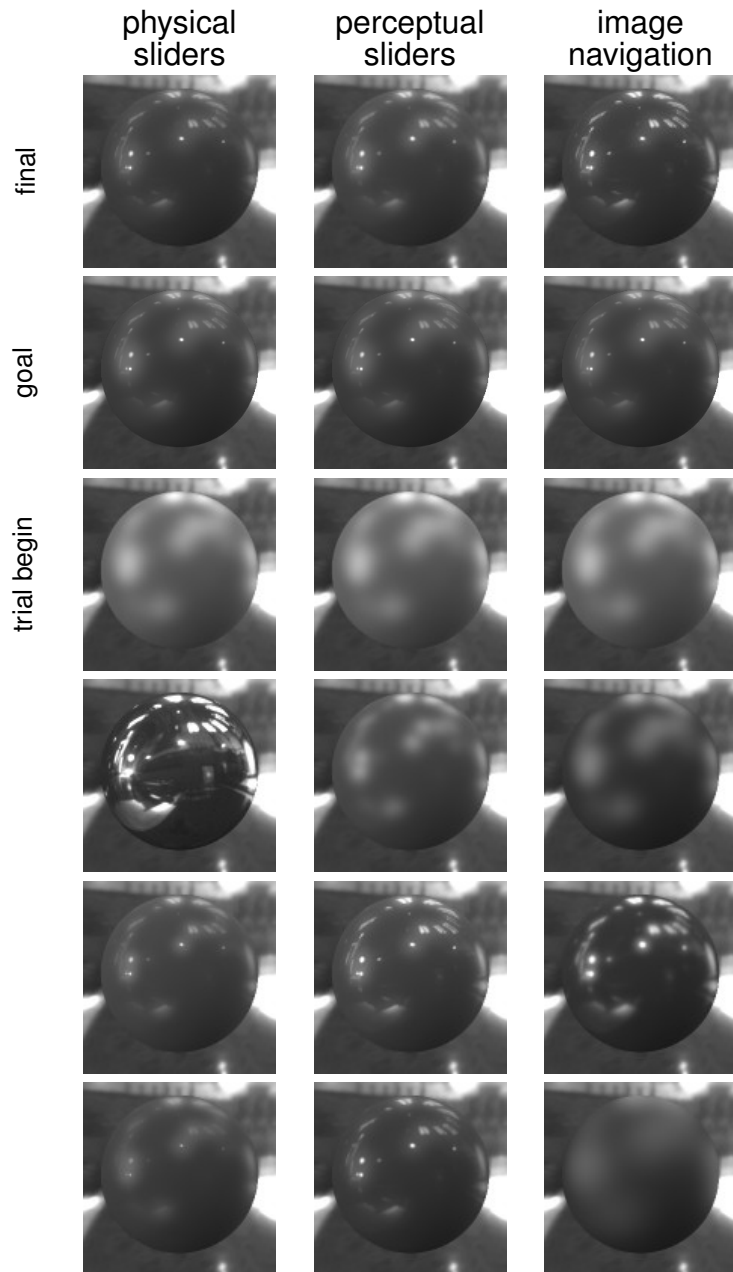
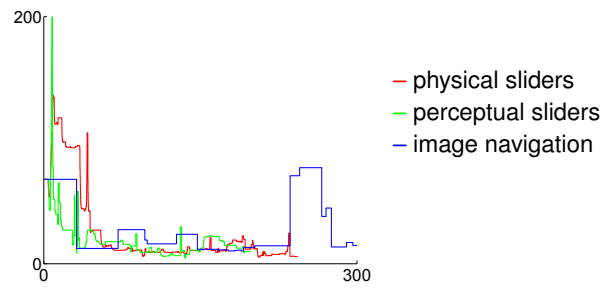
perceptual
sliders

image
navigation

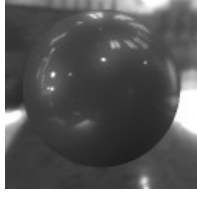
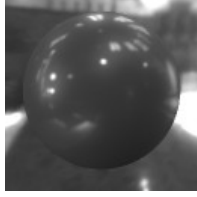
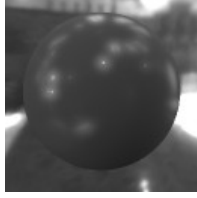
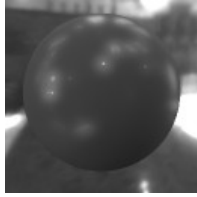


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

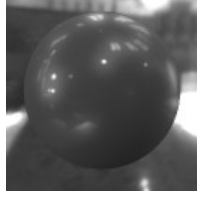
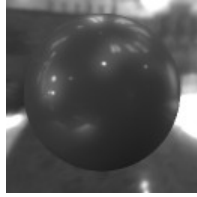
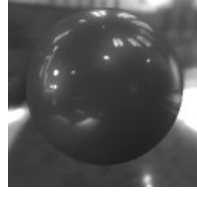
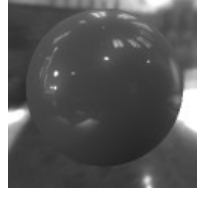
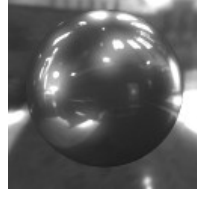
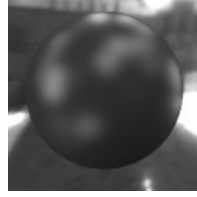
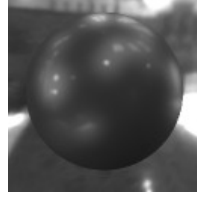
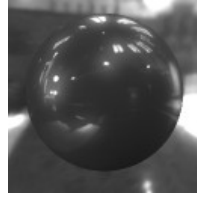
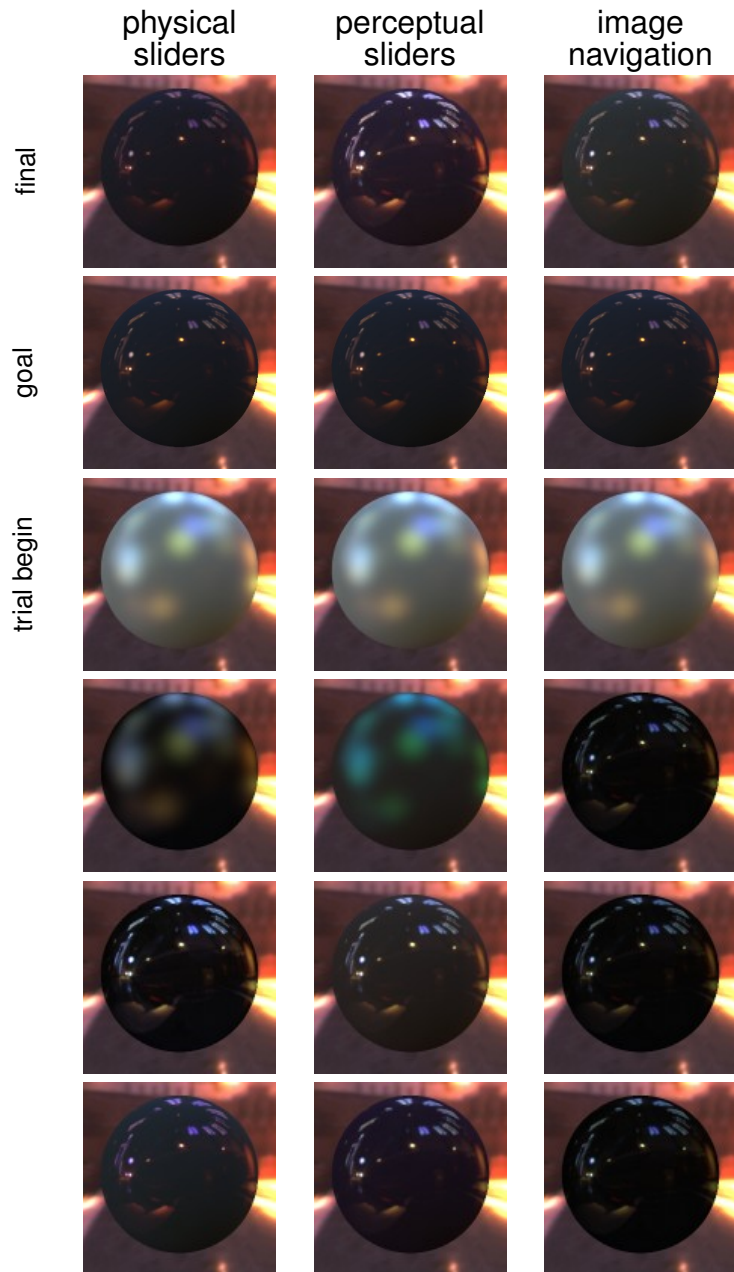
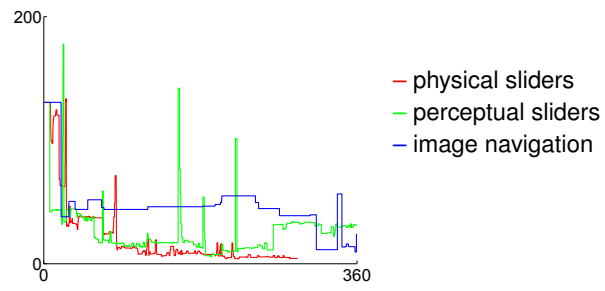


image
navigation

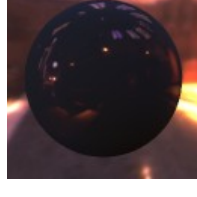
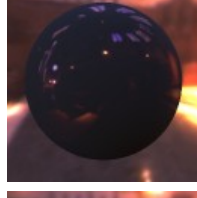
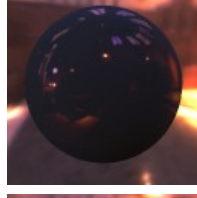
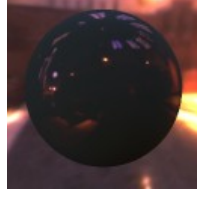
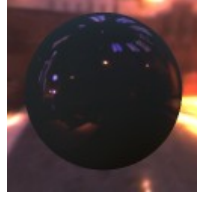
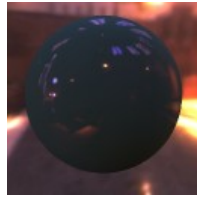


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

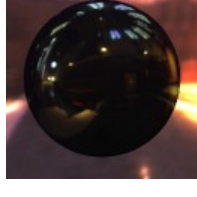
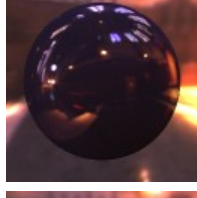
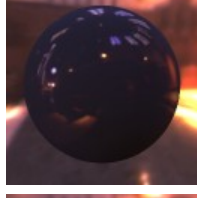
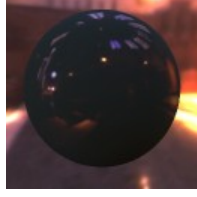
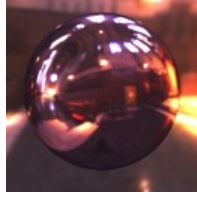
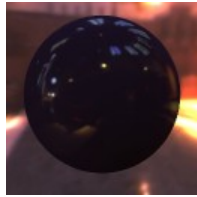
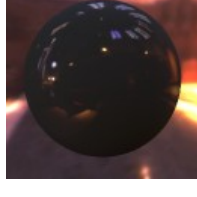
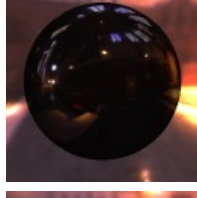
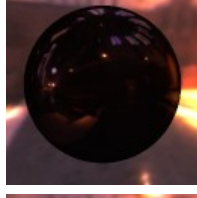
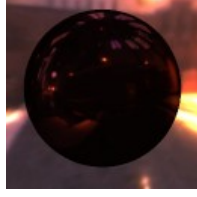
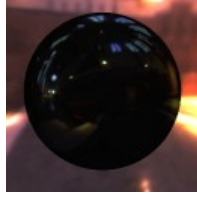
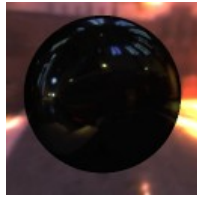


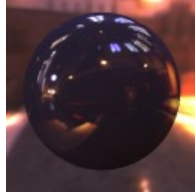
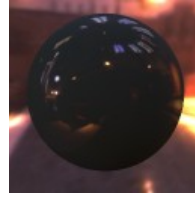
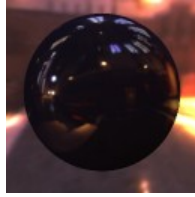
image
navigation



physical
sliders

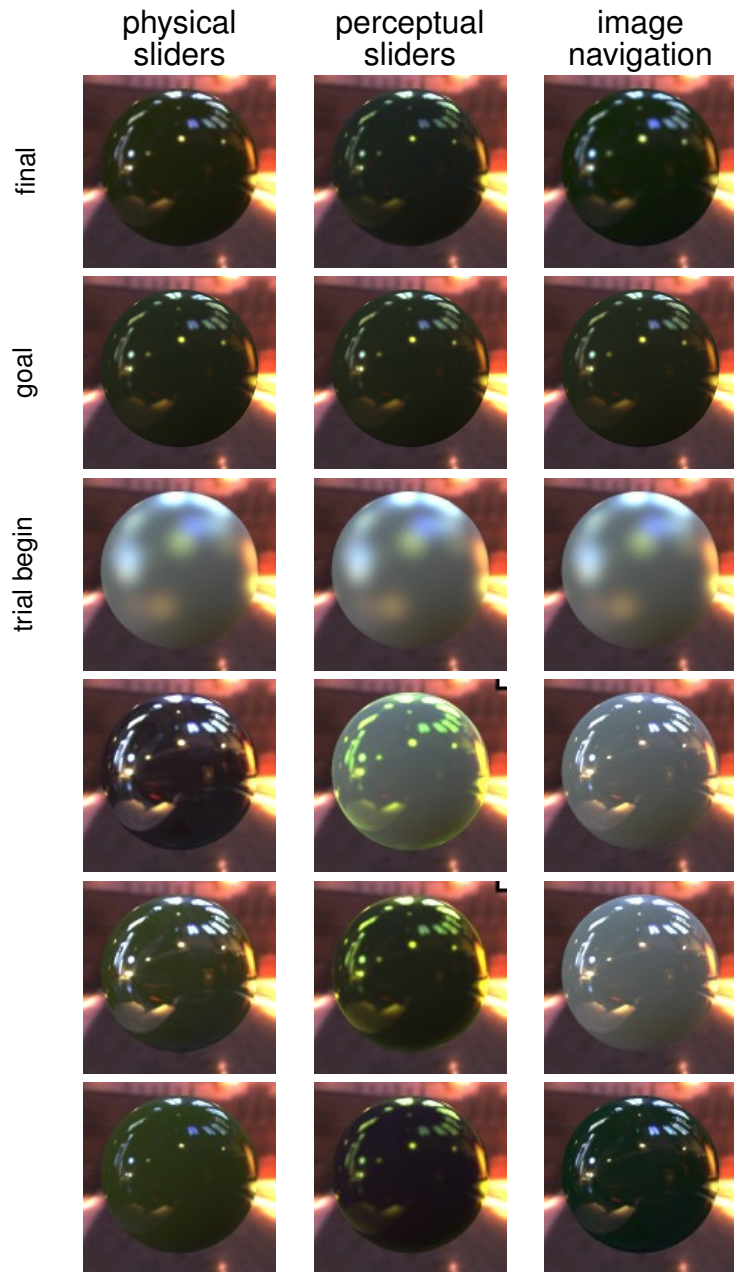
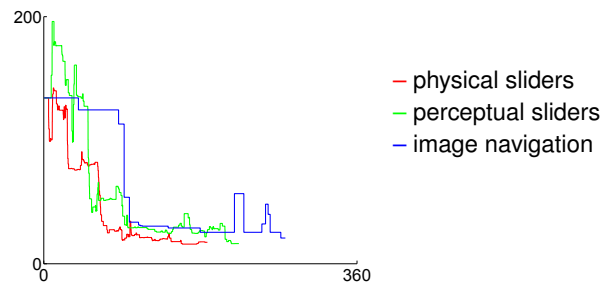
perceptual
sliders

image
navigation

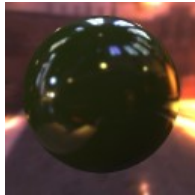
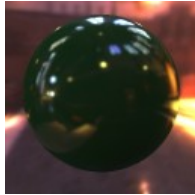
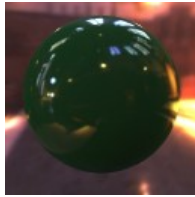


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

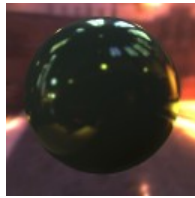
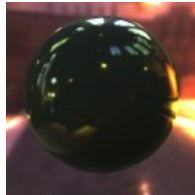
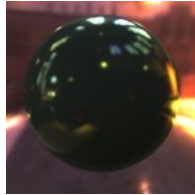
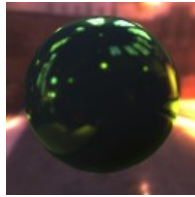
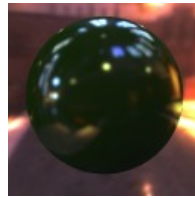
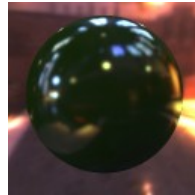
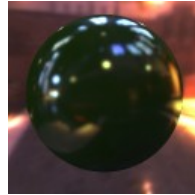
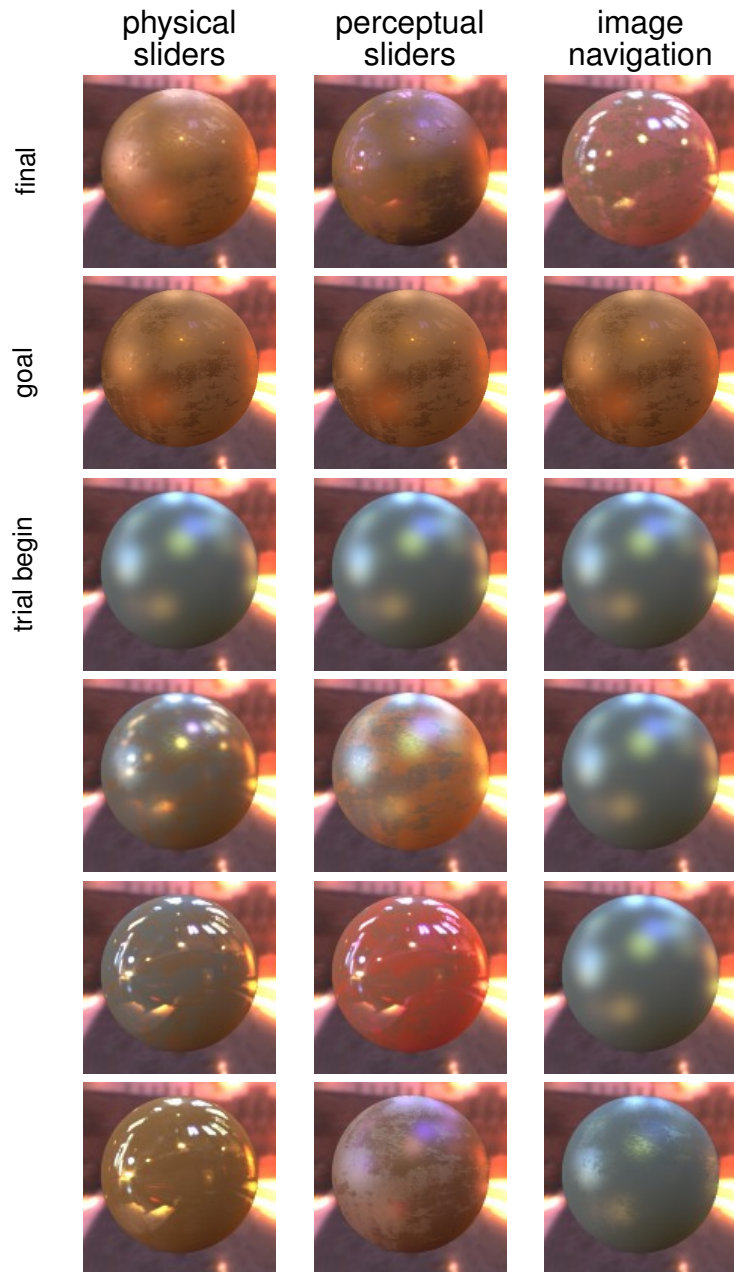
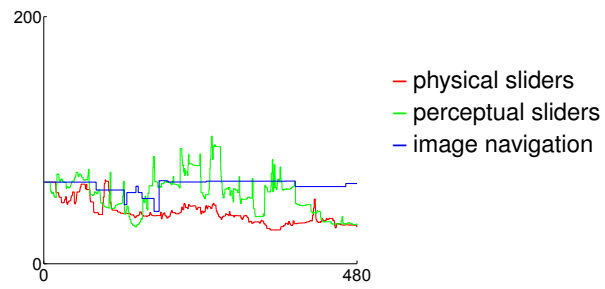


image
navigation

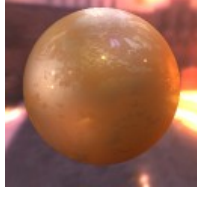
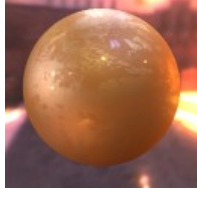
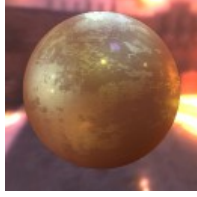
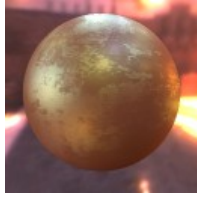


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

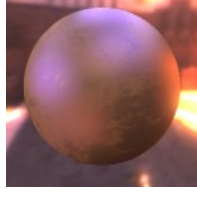
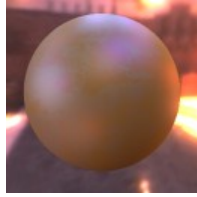
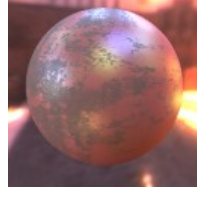
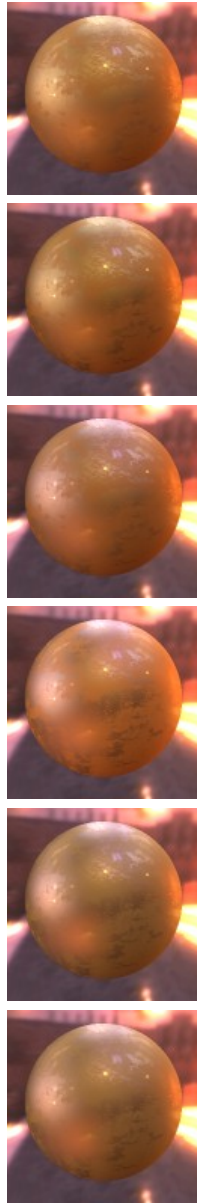


image
navigation



physical
sliders



perceptual
sliders

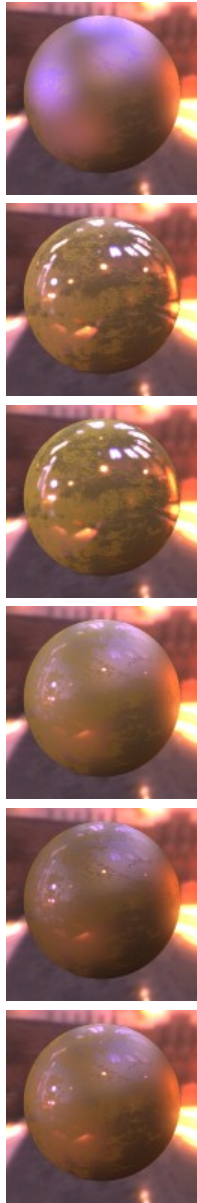
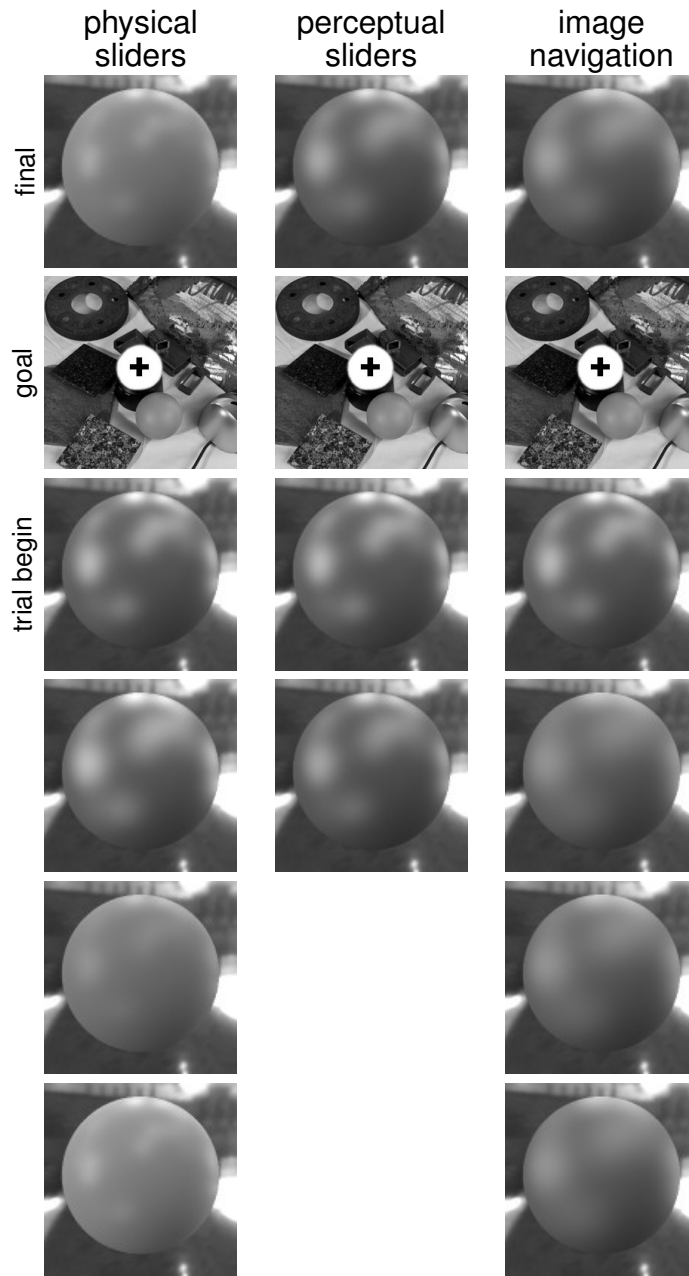


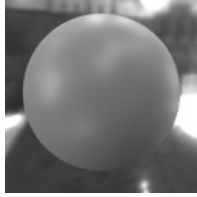
image
navigation



Trial 7

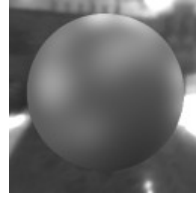


physical
sliders

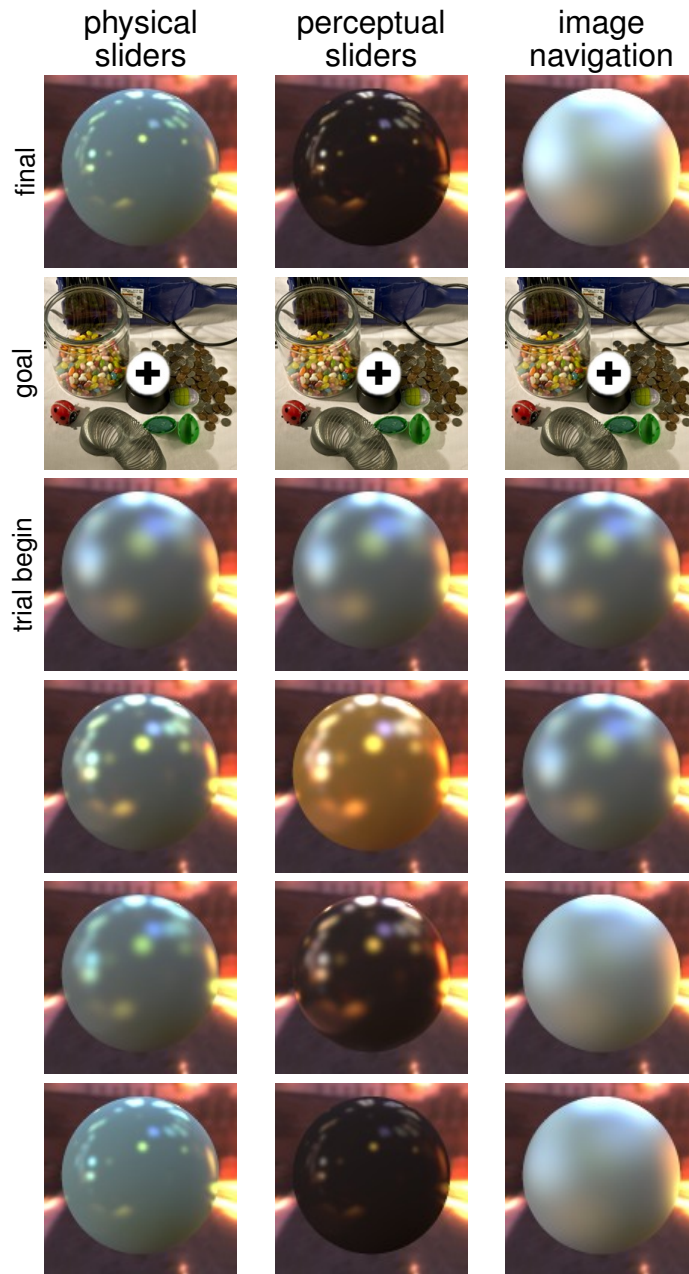


perceptual
sliders

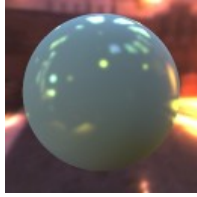
image
navigation



Trial 8



physical
sliders



perceptual
sliders

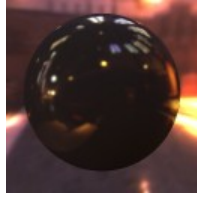
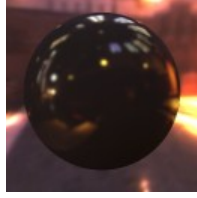
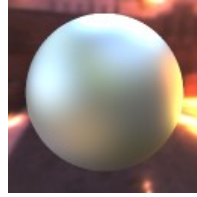


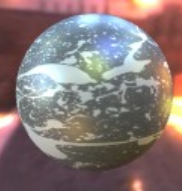







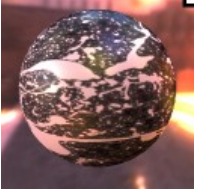


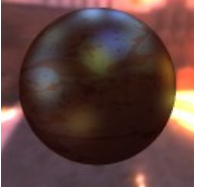


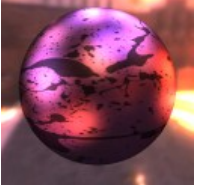
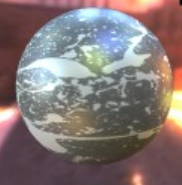





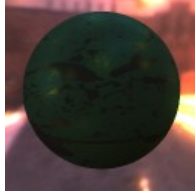
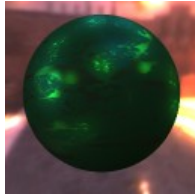
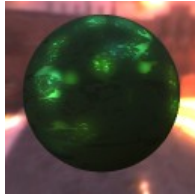
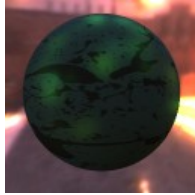
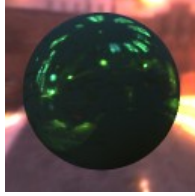
image
navigation



Trial 9

	physical sliders	perceptual sliders	image navigation
final			
goal			
trial begin			
			
			
			
			

physical
sliders



perceptual
sliders

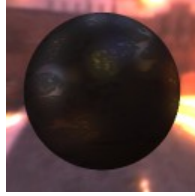
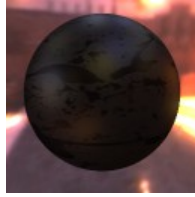
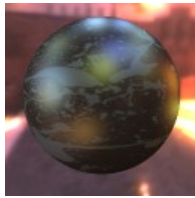
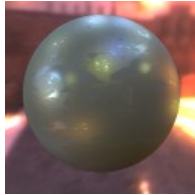


image
navigation



physical
sliders



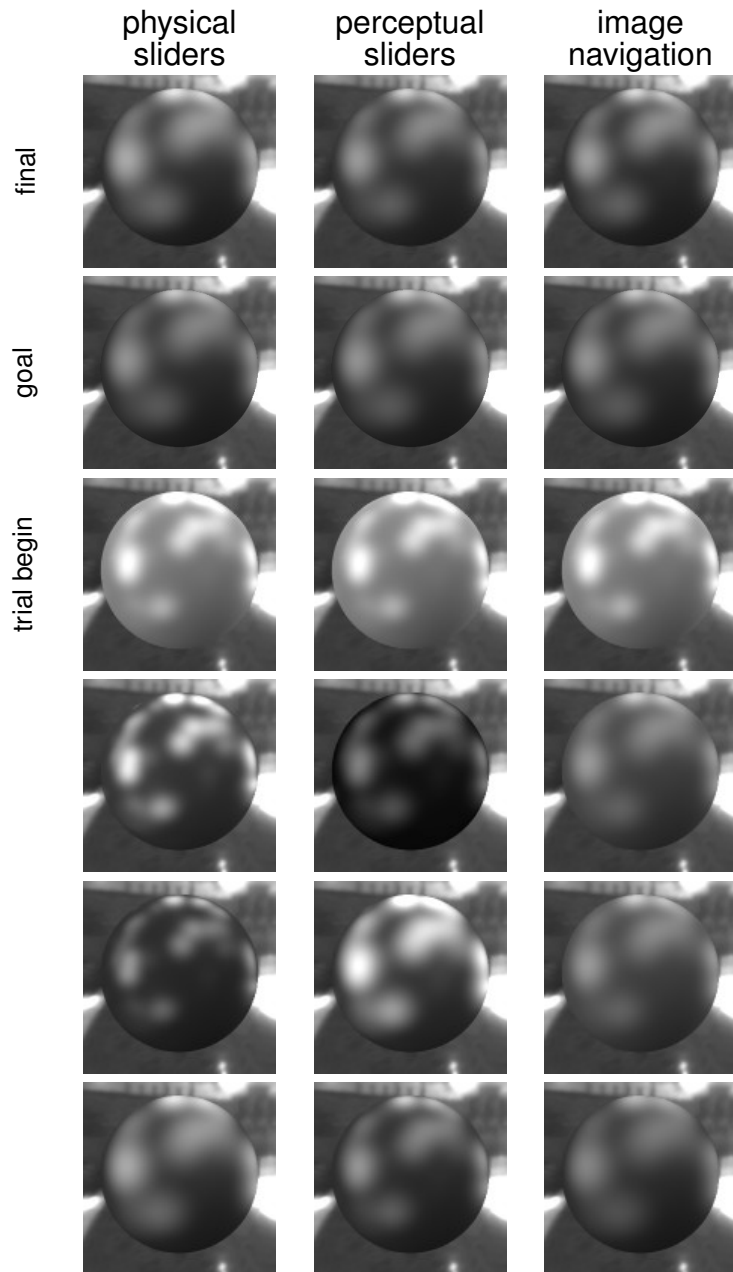
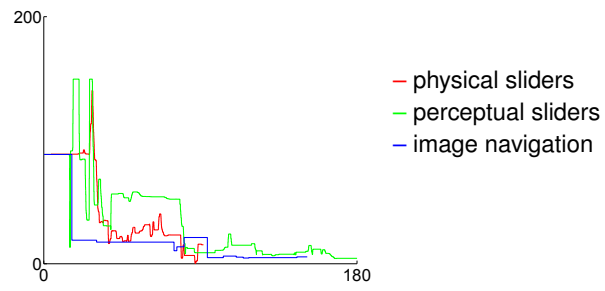
perceptual
sliders

image
navigation

Subject 10

Trial 1

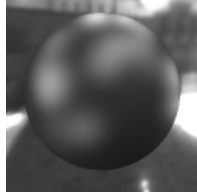
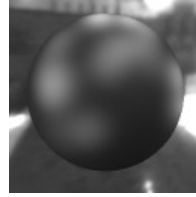
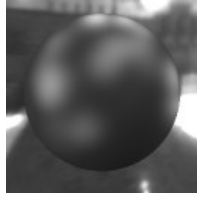
Error Over Time



physical
sliders

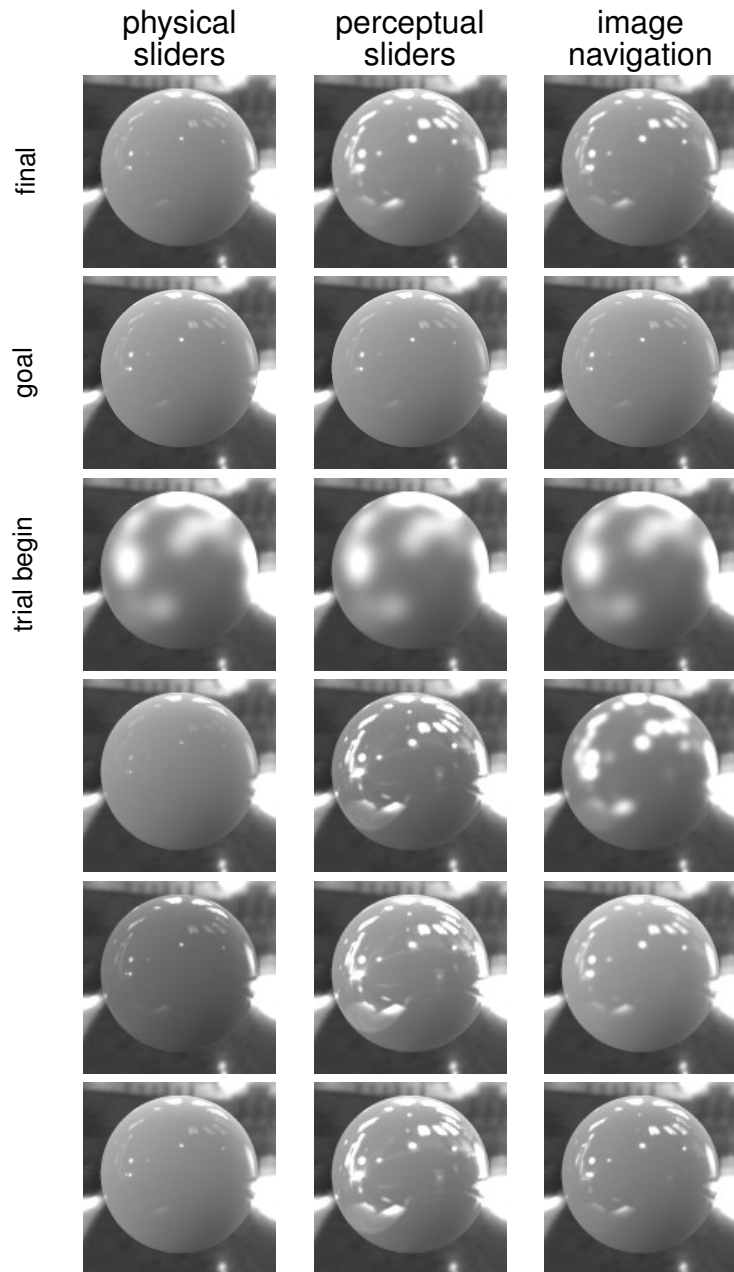
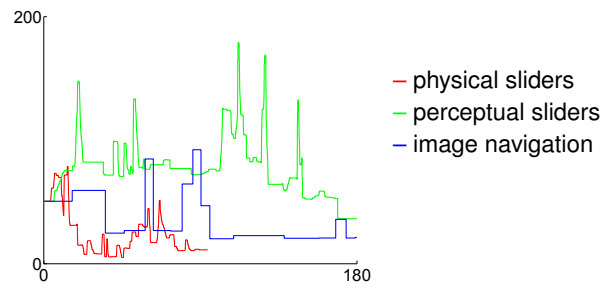
perceptual
sliders

image
navigation



Trial 2

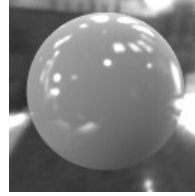
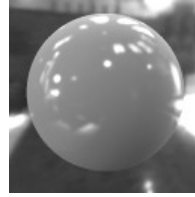
Error Over Time



physical
sliders

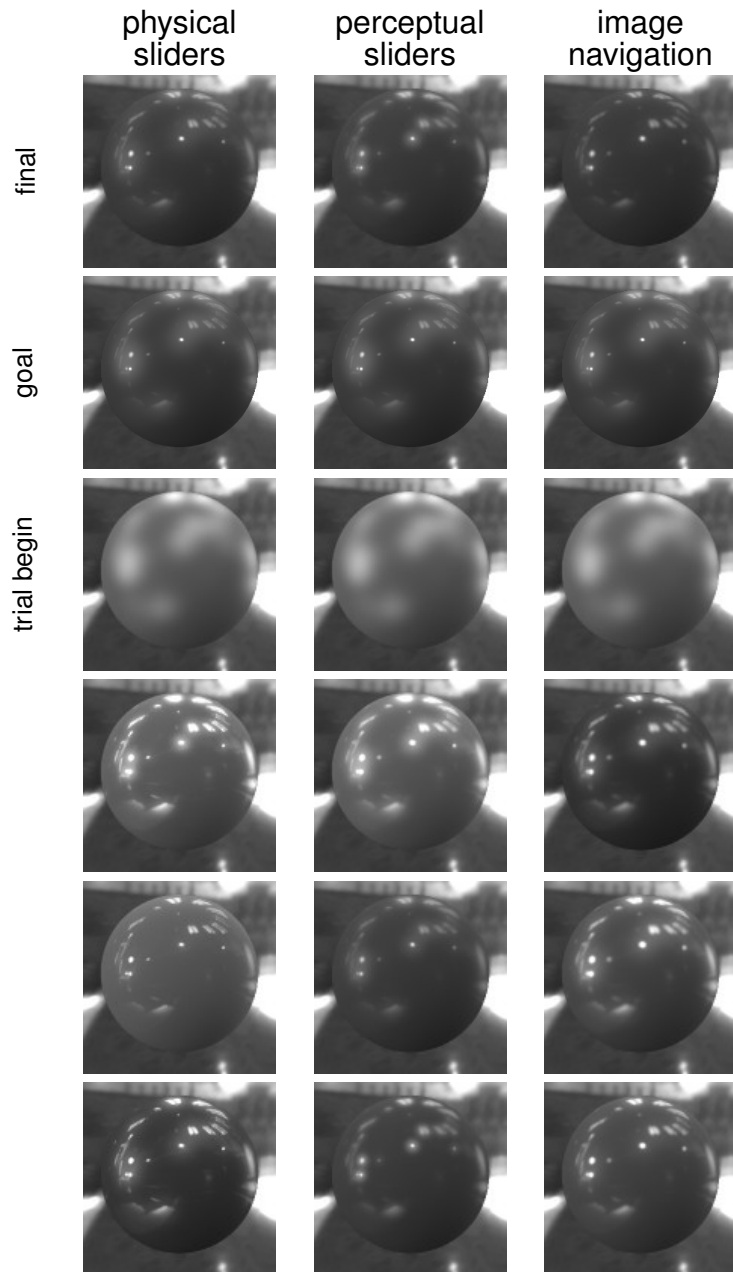
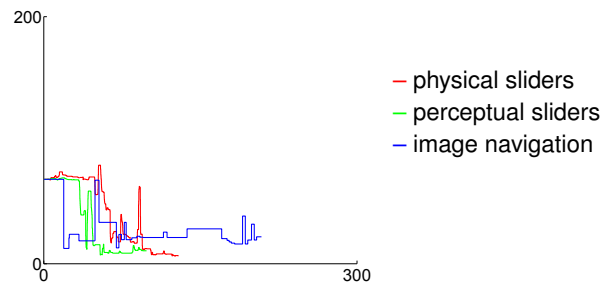
perceptual
sliders

image
navigation

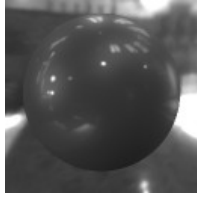


Trial 3

Error Over Time

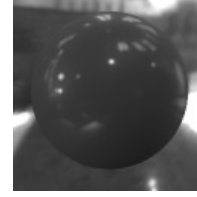
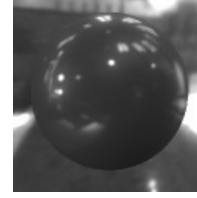
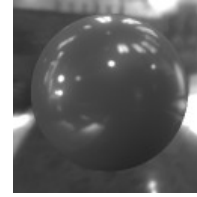


physical
sliders



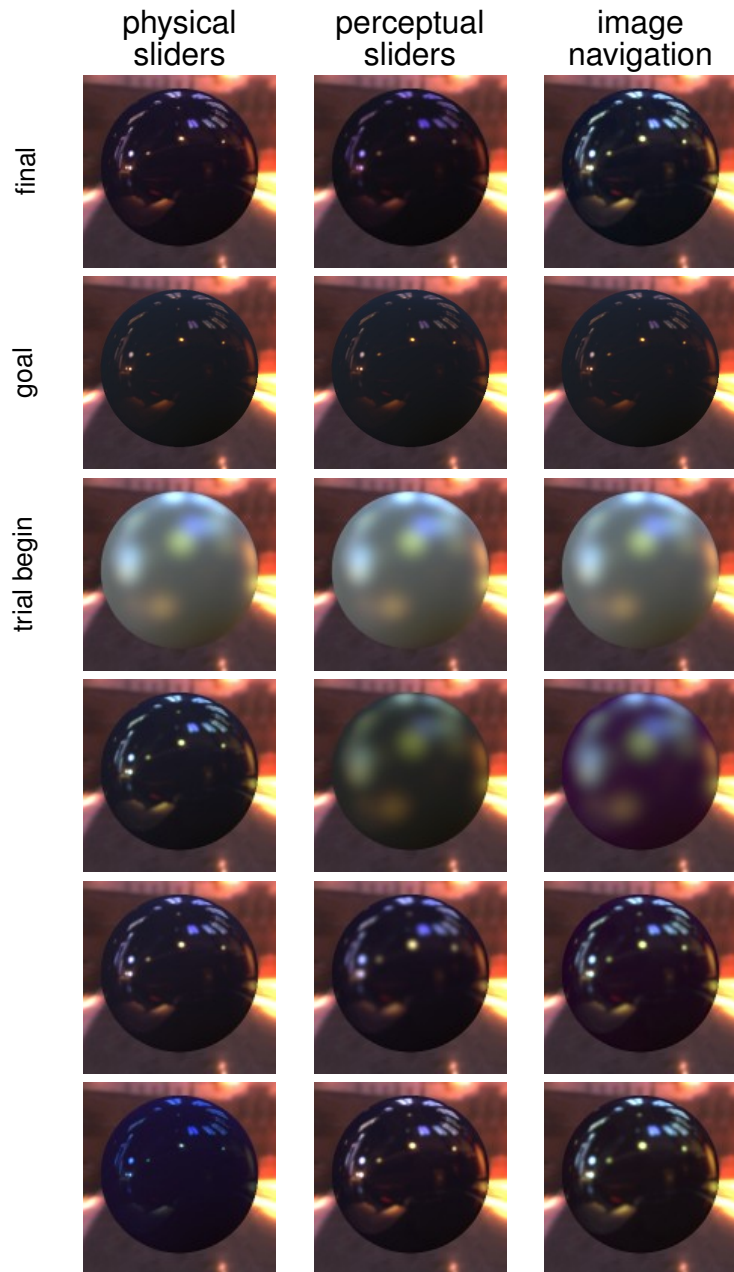
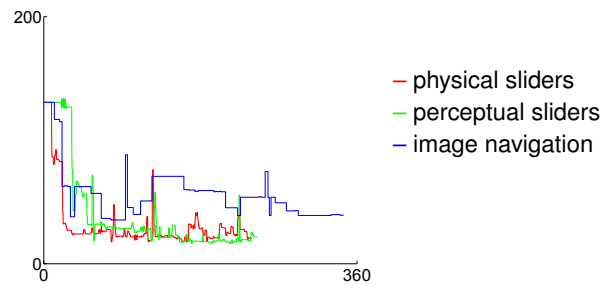
perceptual
sliders

image
navigation

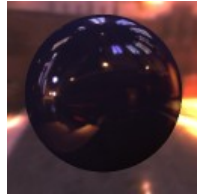
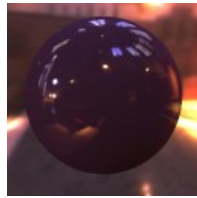
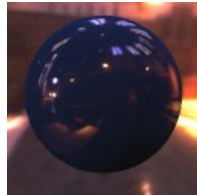
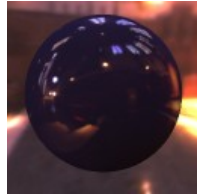
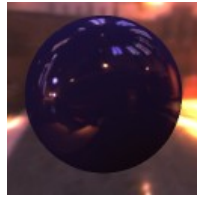


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

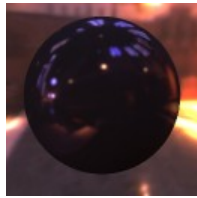
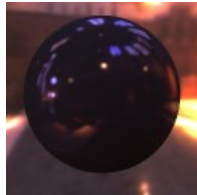
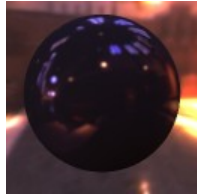
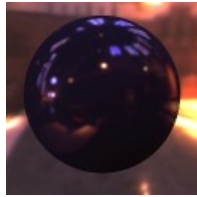
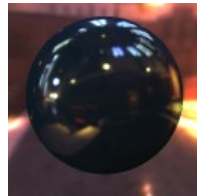
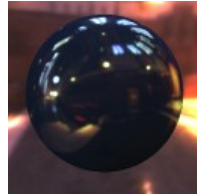
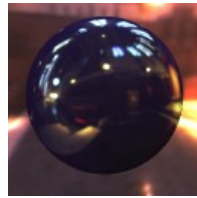
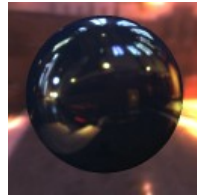


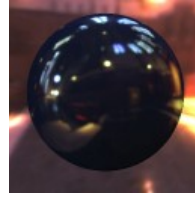
image
navigation



physical
sliders

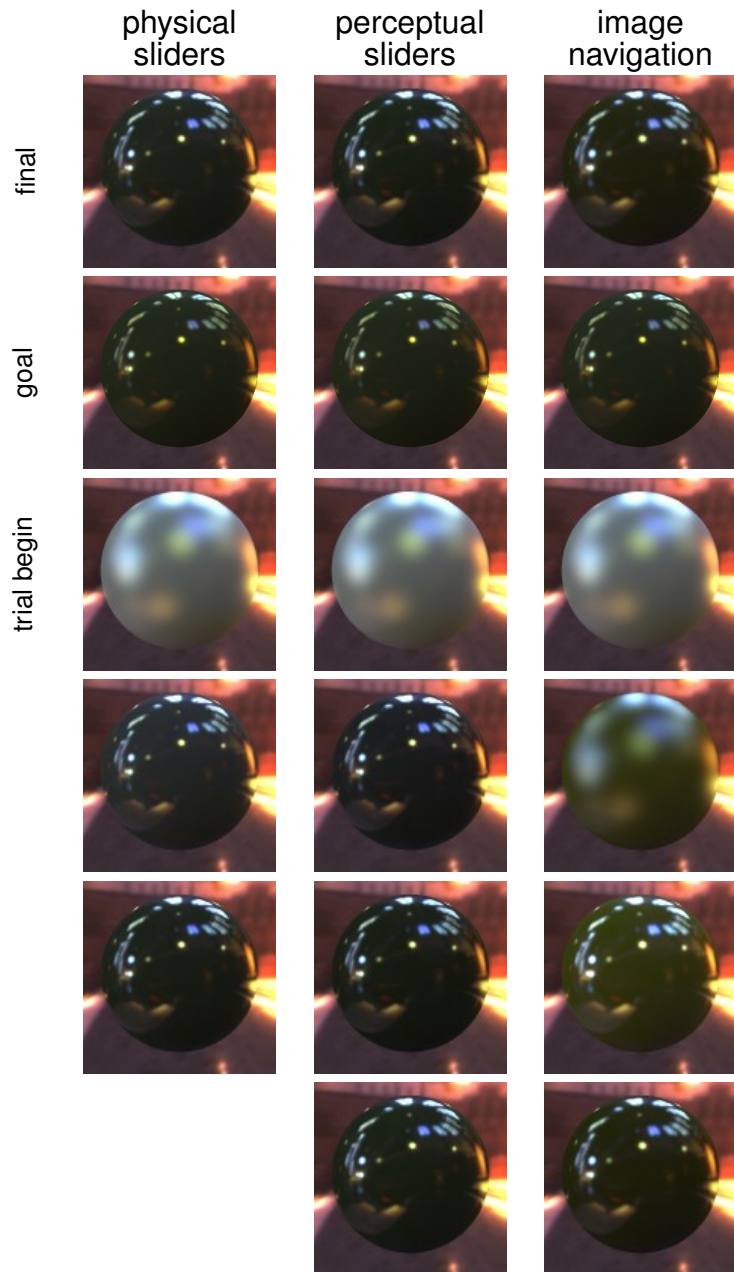
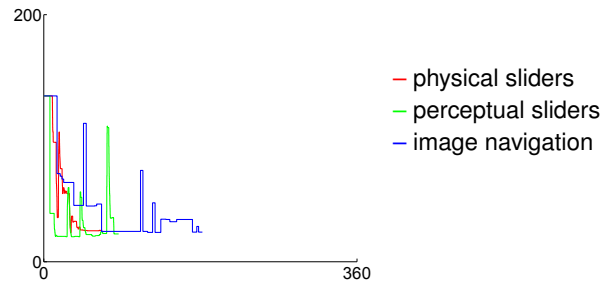
perceptual
sliders

image
navigation



Trial 5

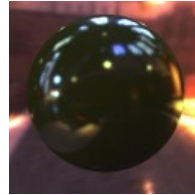
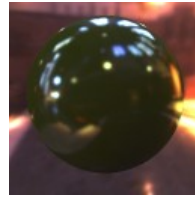
Error Over Time



physical
sliders

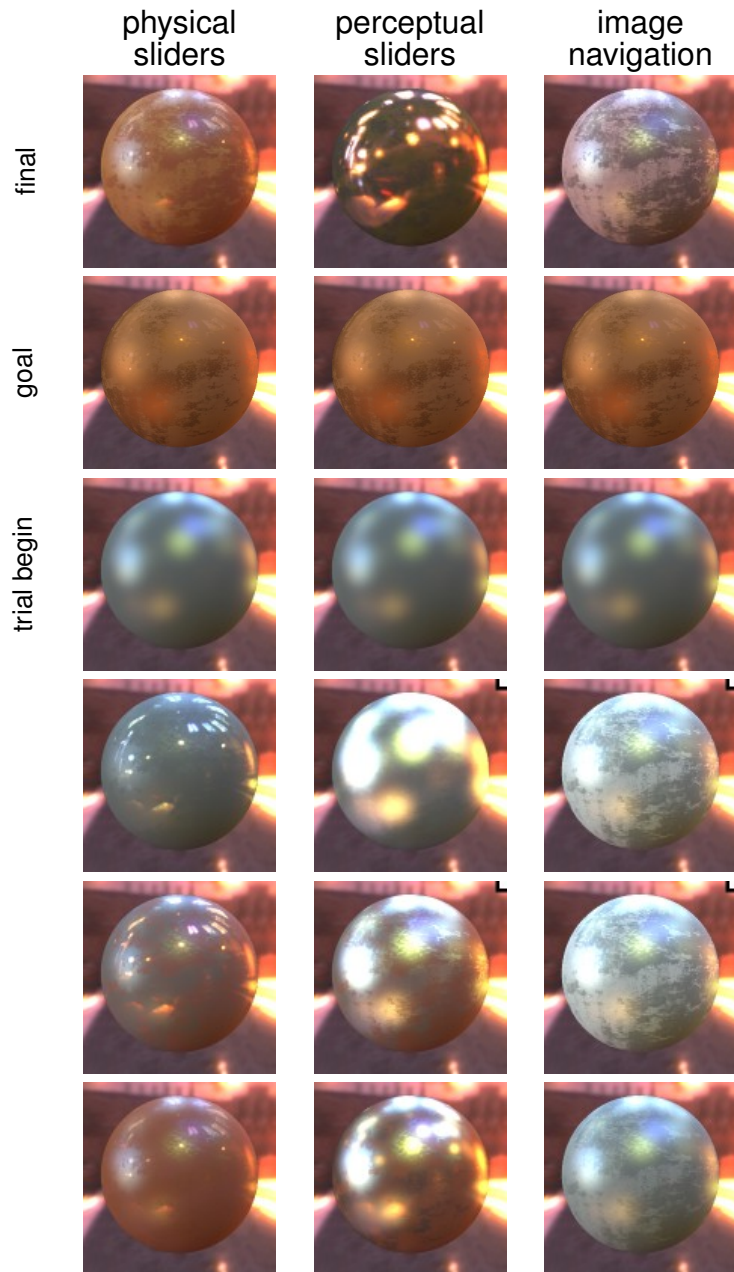
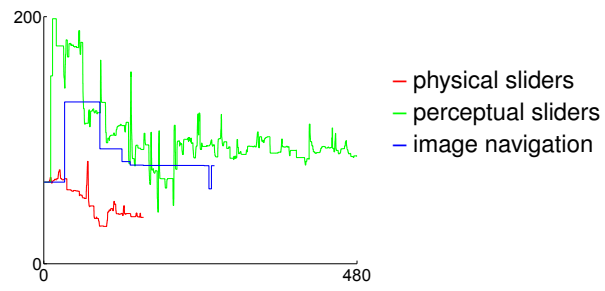
perceptual
sliders

image
navigation

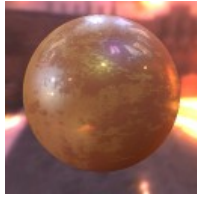


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

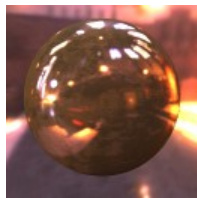
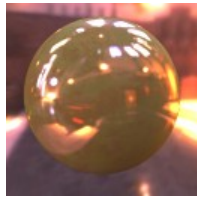
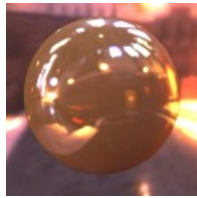
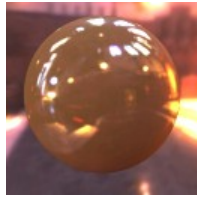
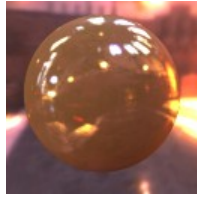
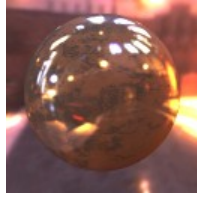


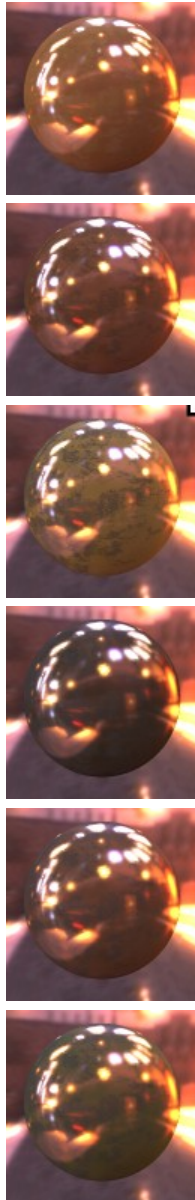
image
navigation



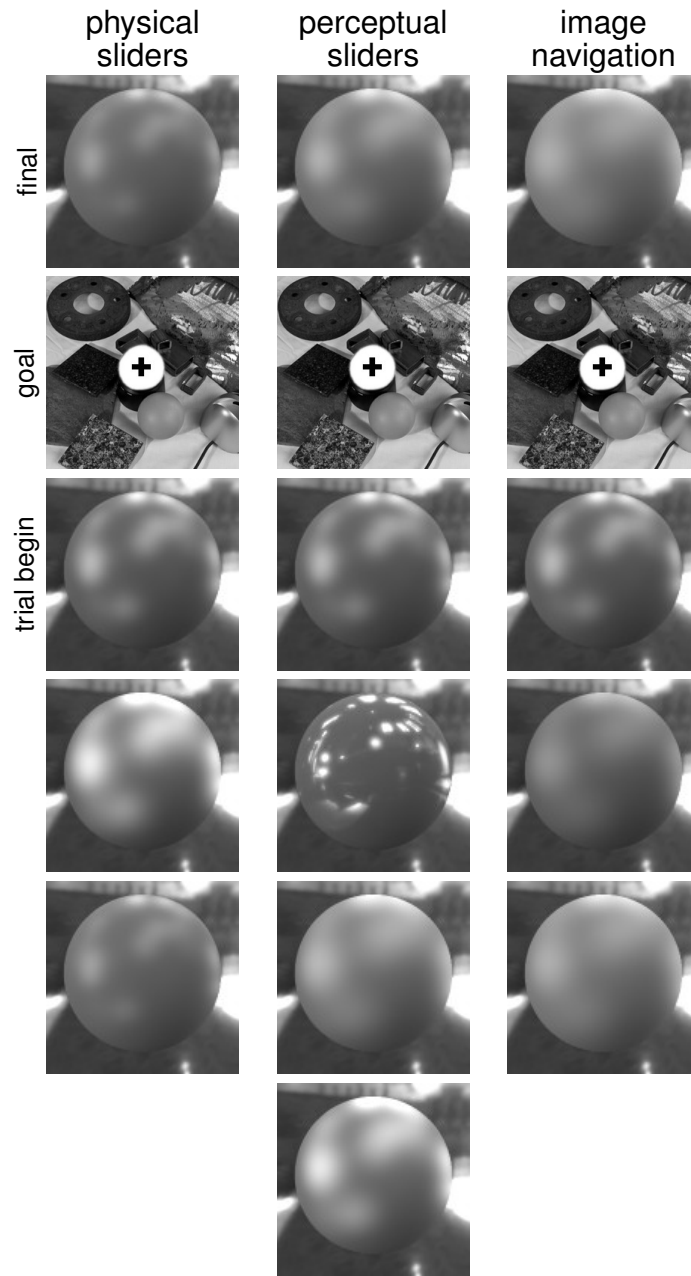
physical
sliders

perceptual
sliders

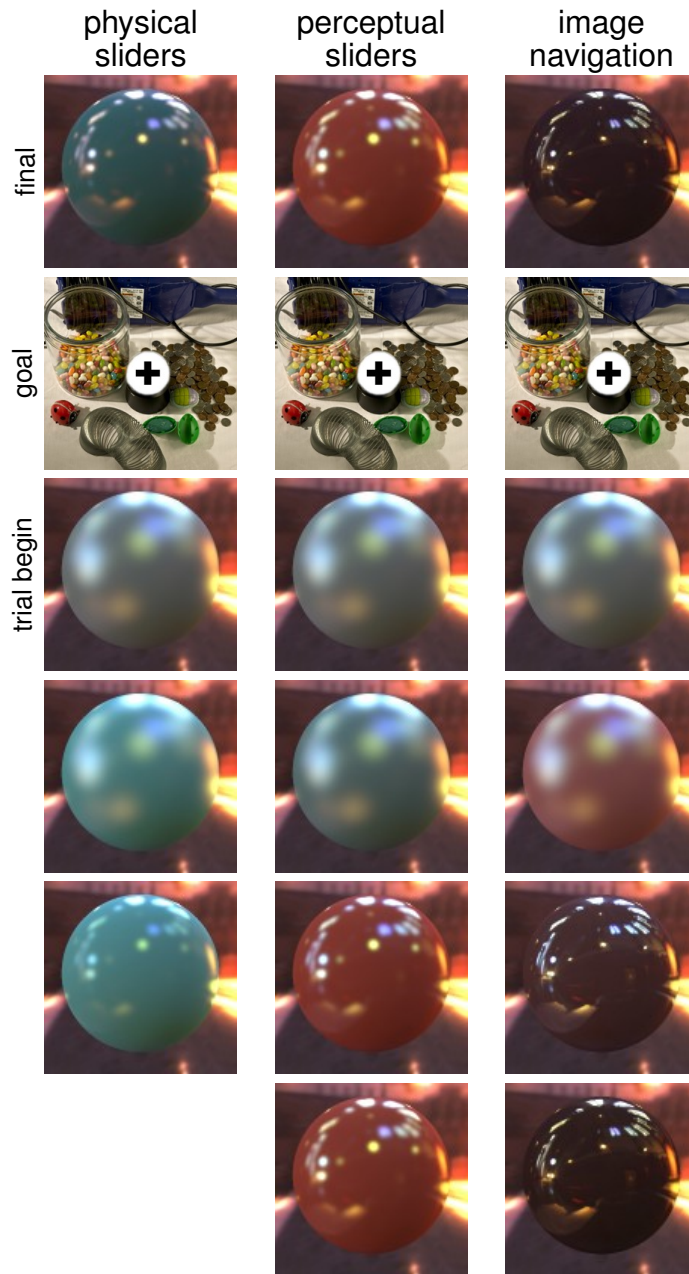
image
navigation



Trial 7



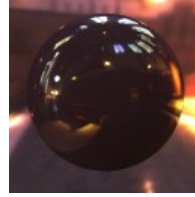
Trial 8



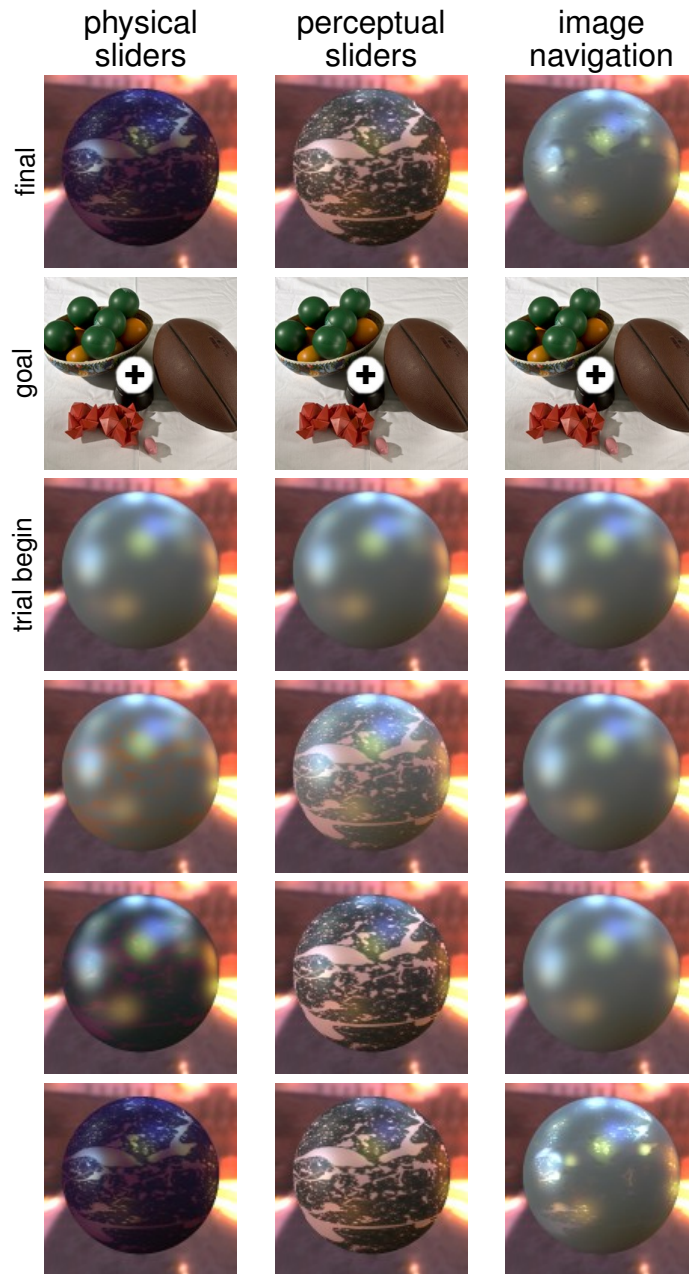
physical
sliders

perceptual
sliders

image
navigation



Trial 9



physical
sliders

perceptual
sliders

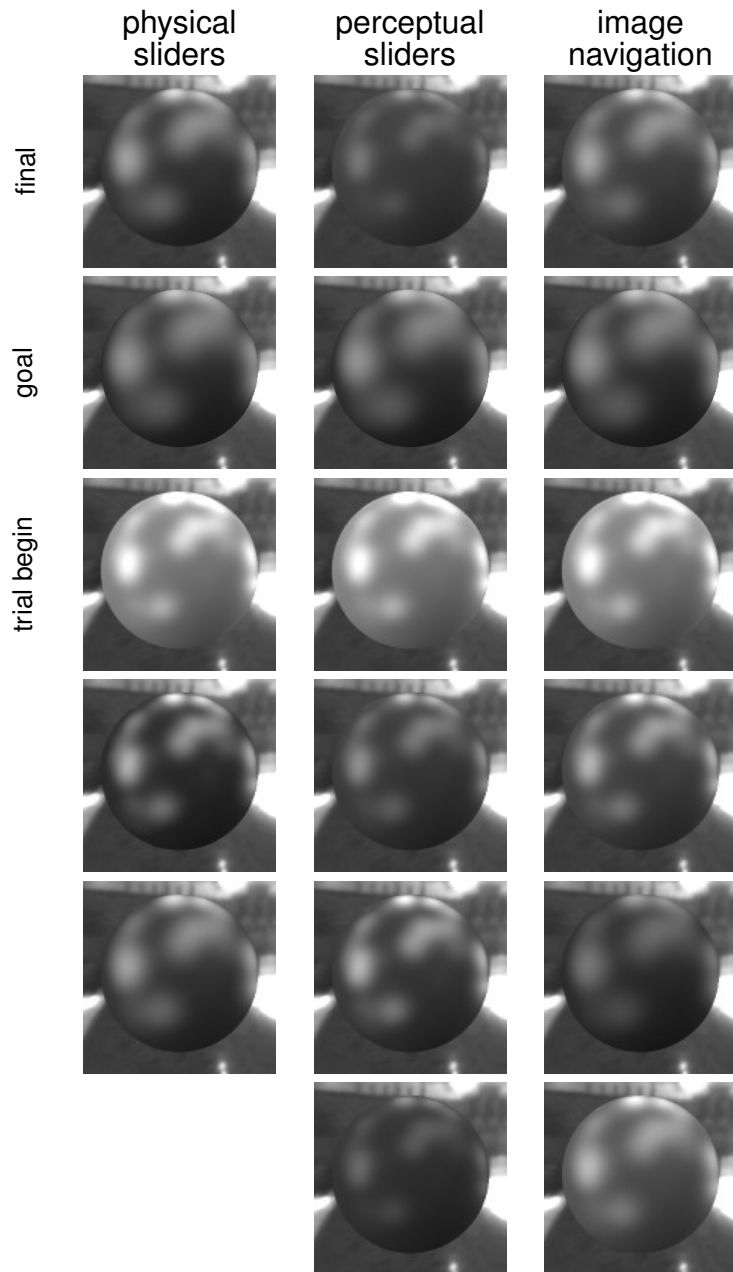
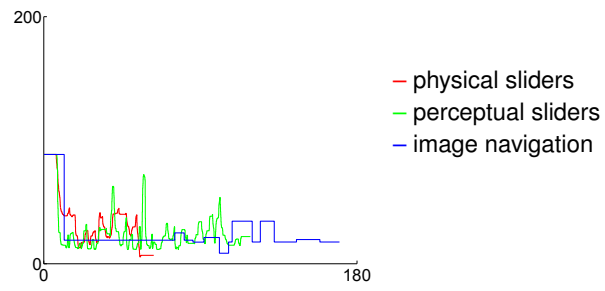
image
navigation



Subject 11

Trial 1

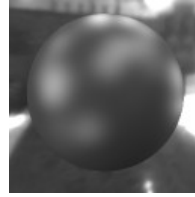
Error Over Time



physical
sliders

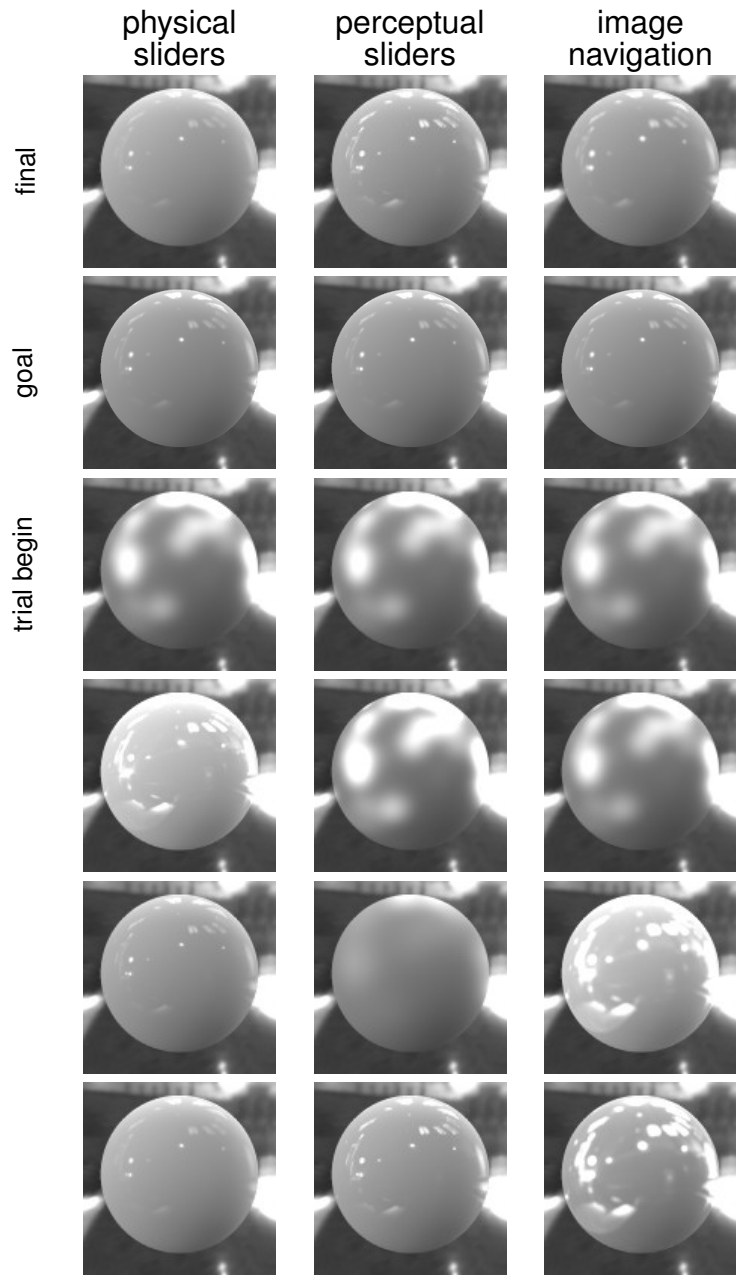
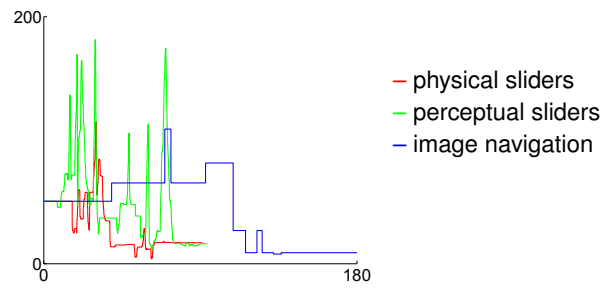
perceptual
sliders

image
navigation



Trial 2

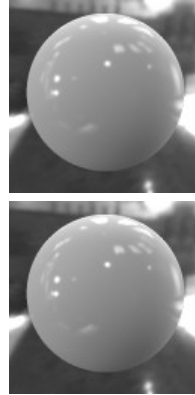
Error Over Time



physical
sliders

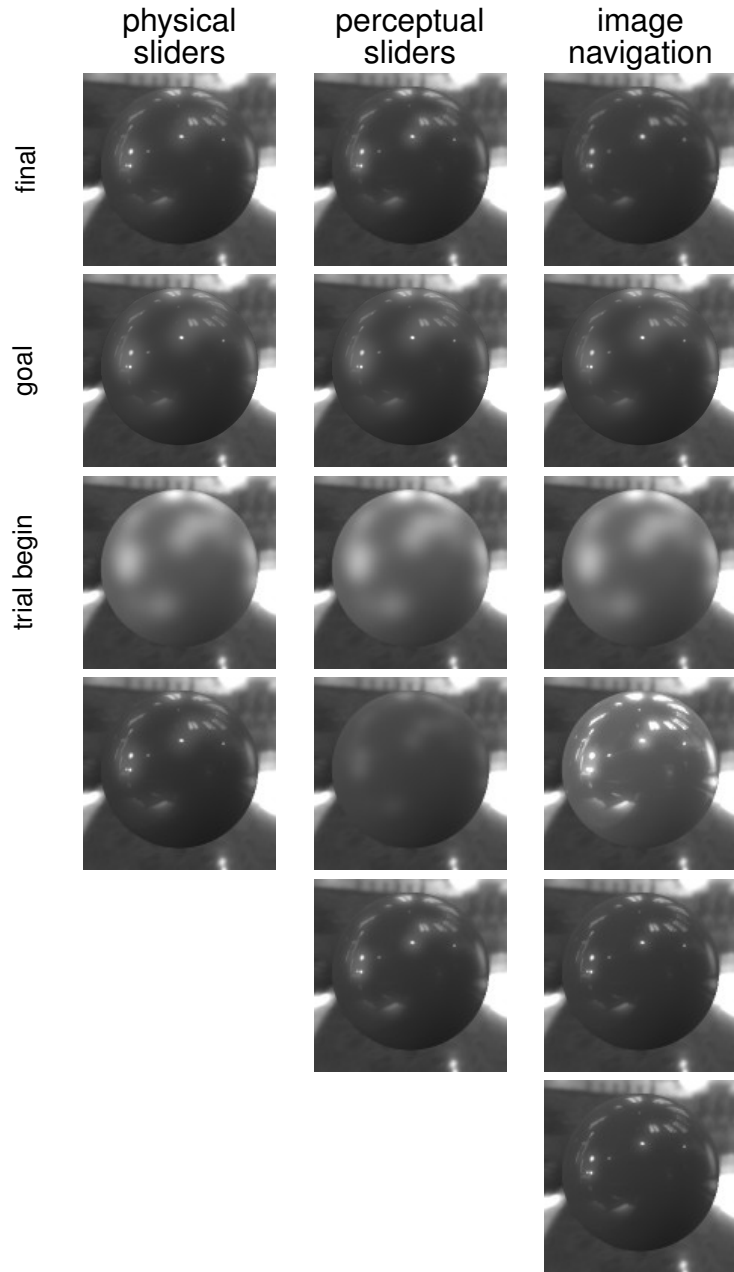
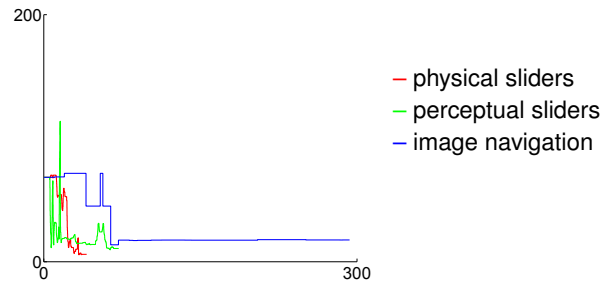
perceptual
sliders

image
navigation



Trial 3

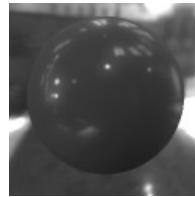
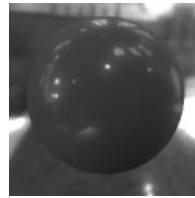
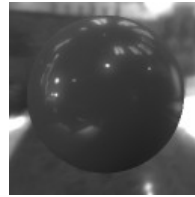
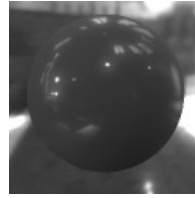
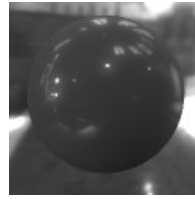
Error Over Time



physical
sliders

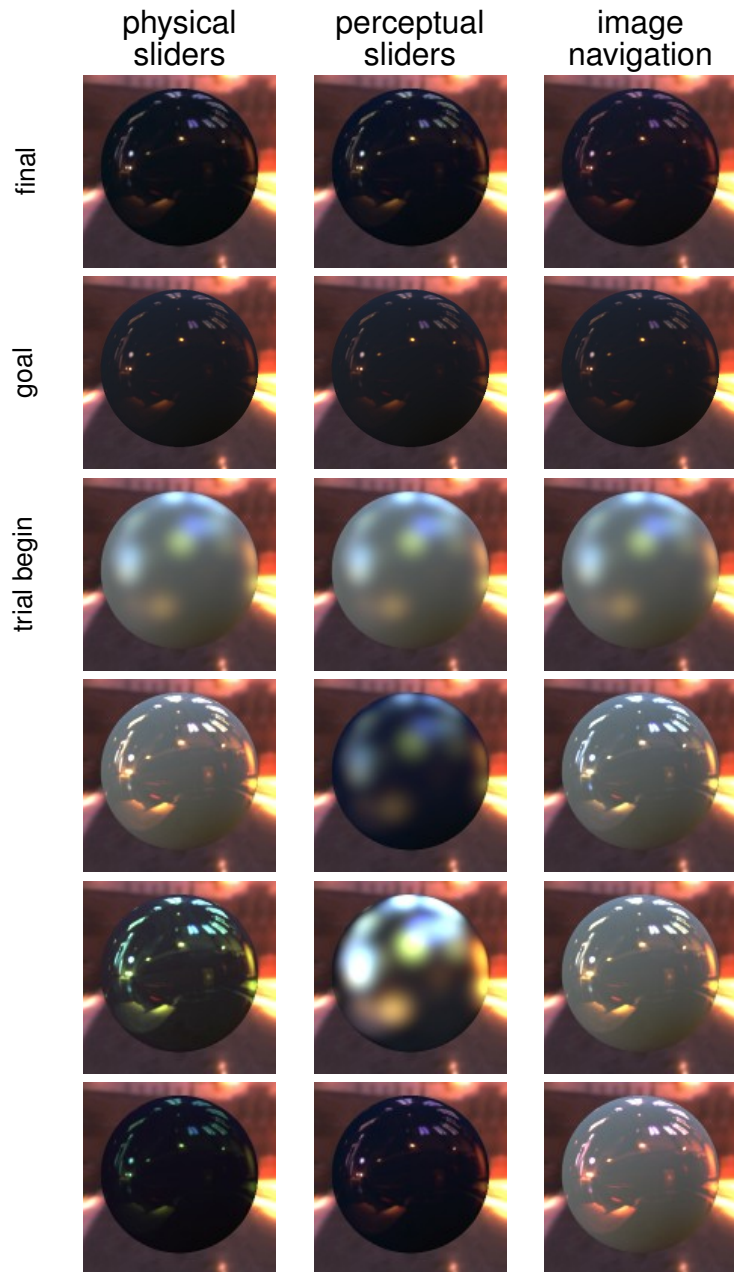
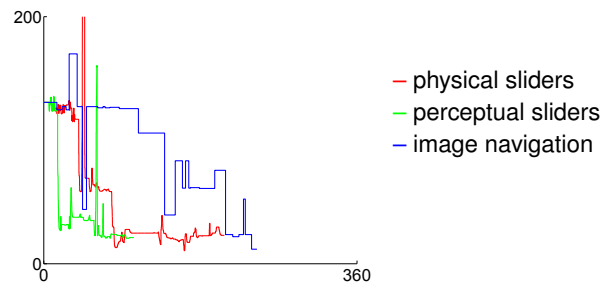
perceptual
sliders

image
navigation

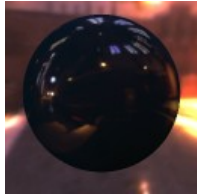
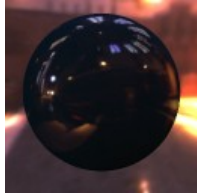
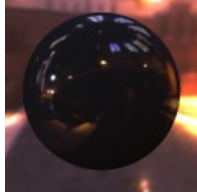
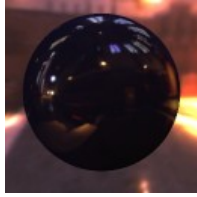


Trial 4

Error Over Time

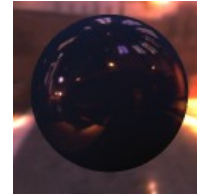
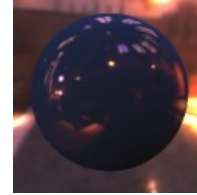
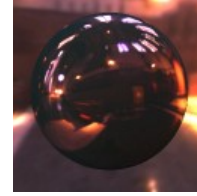
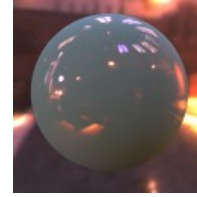


physical
sliders



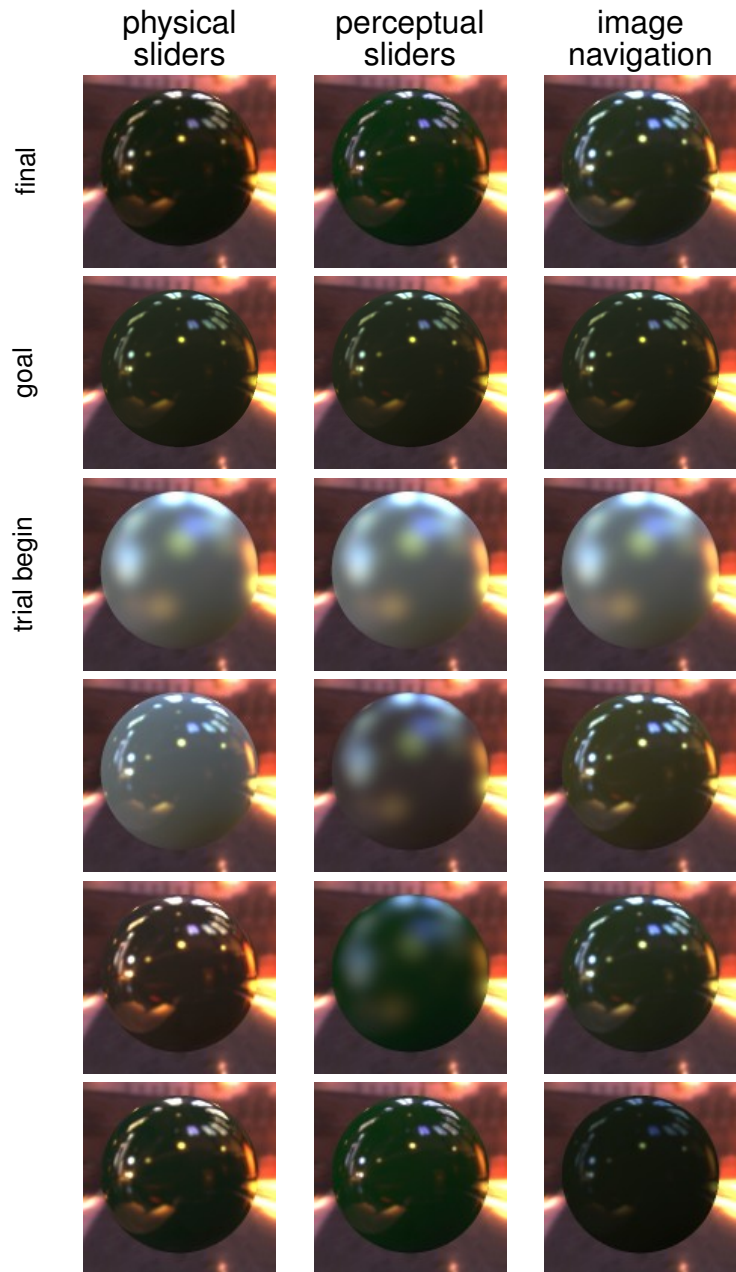
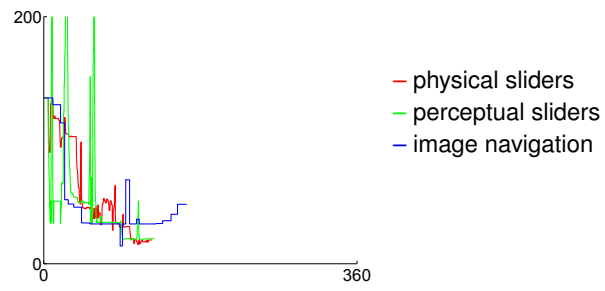
perceptual
sliders

image
navigation

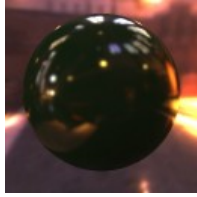


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

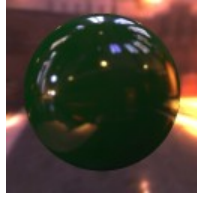
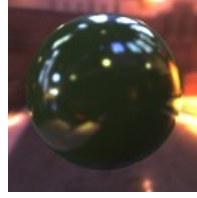
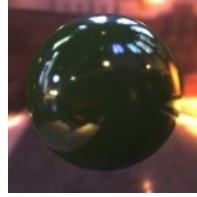
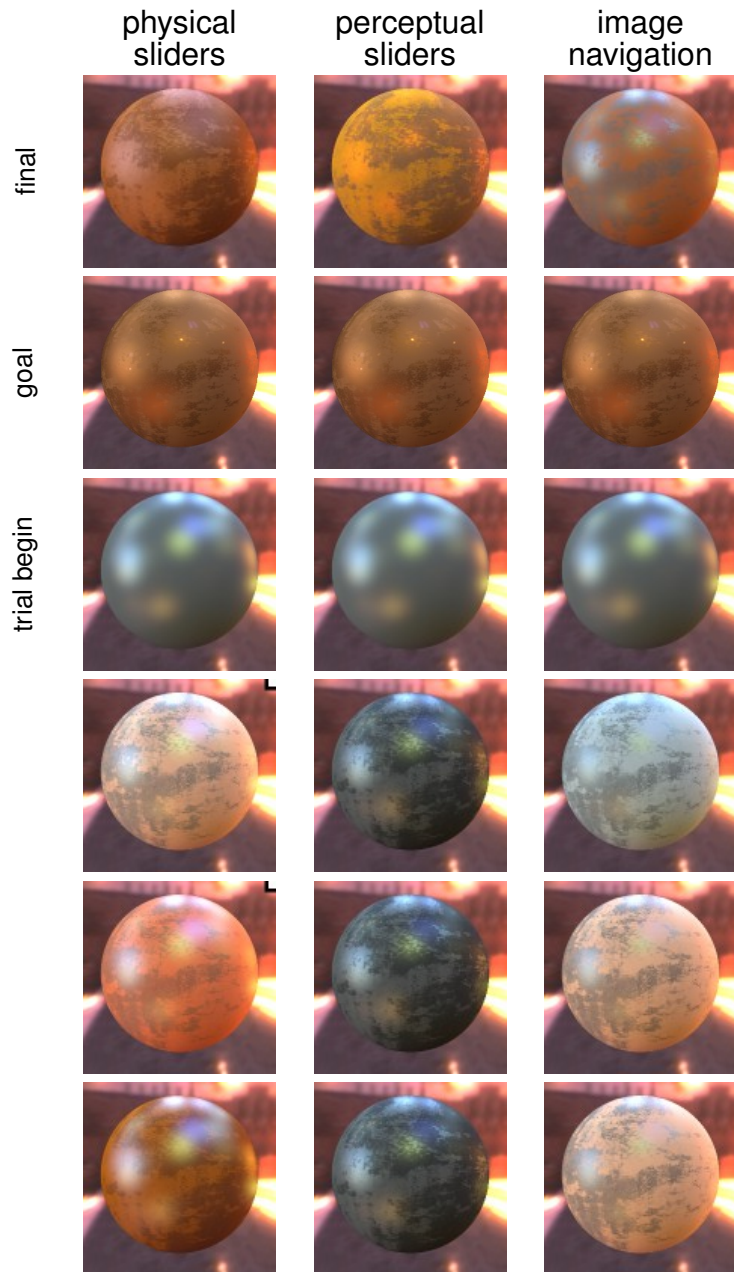
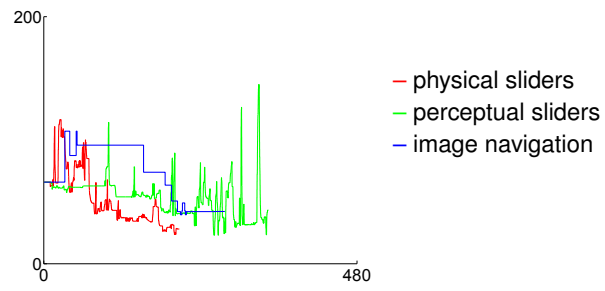


image
navigation

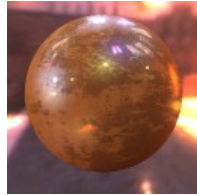


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

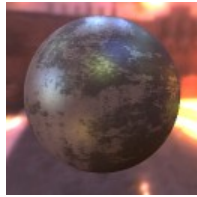
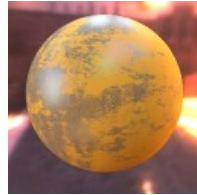
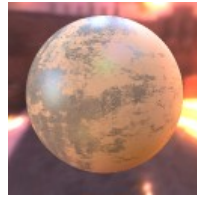


image
navigation



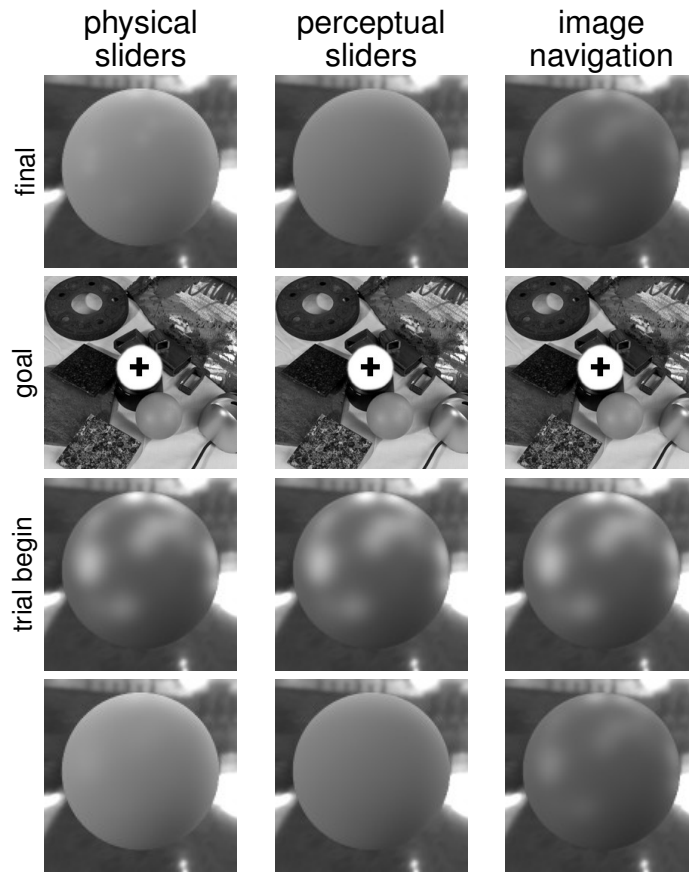
physical
sliders

perceptual
sliders

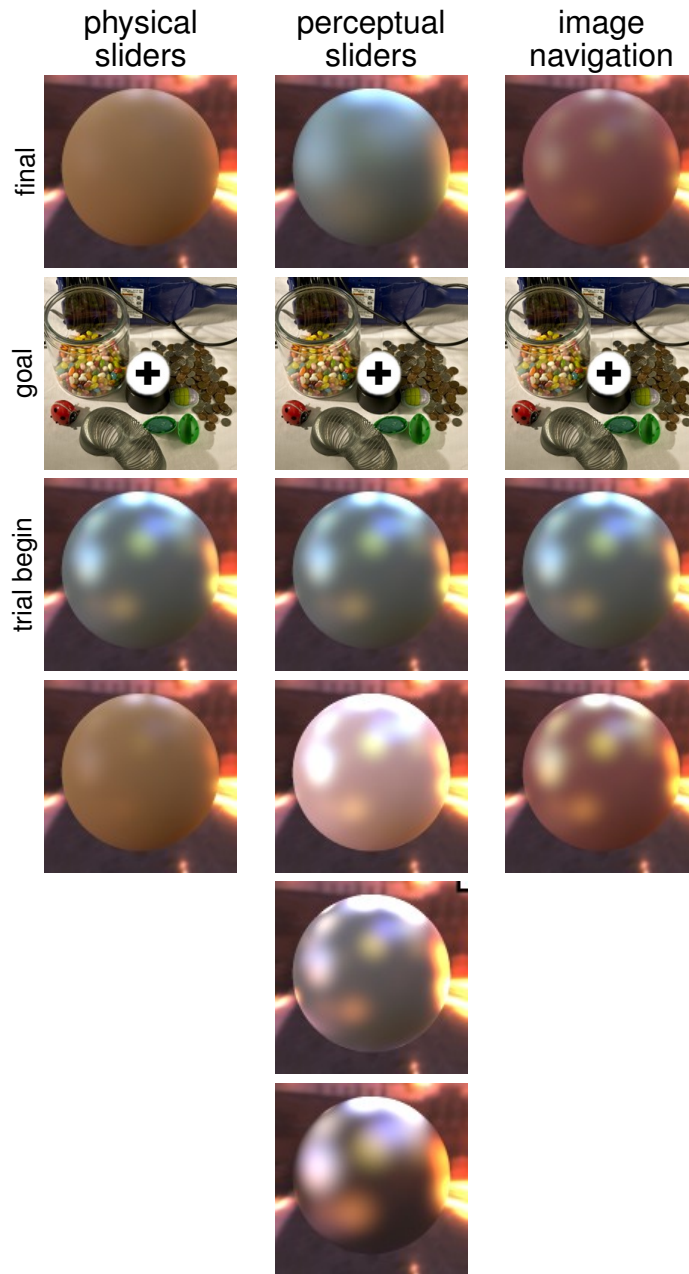
image
navigation



Trial 7



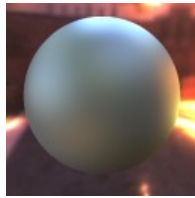
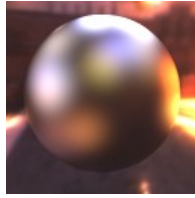
Trial 8



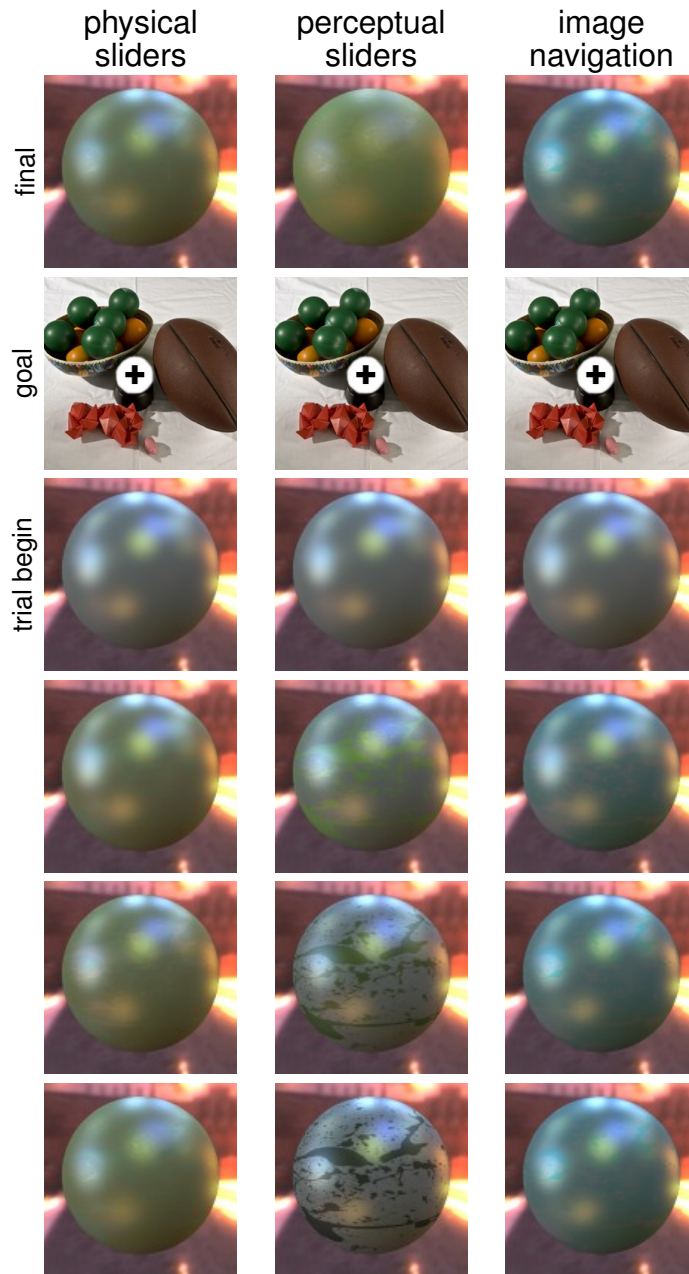
physical
sliders

perceptual
sliders

image
navigation



Trial 9



physical
sliders

perceptual
sliders

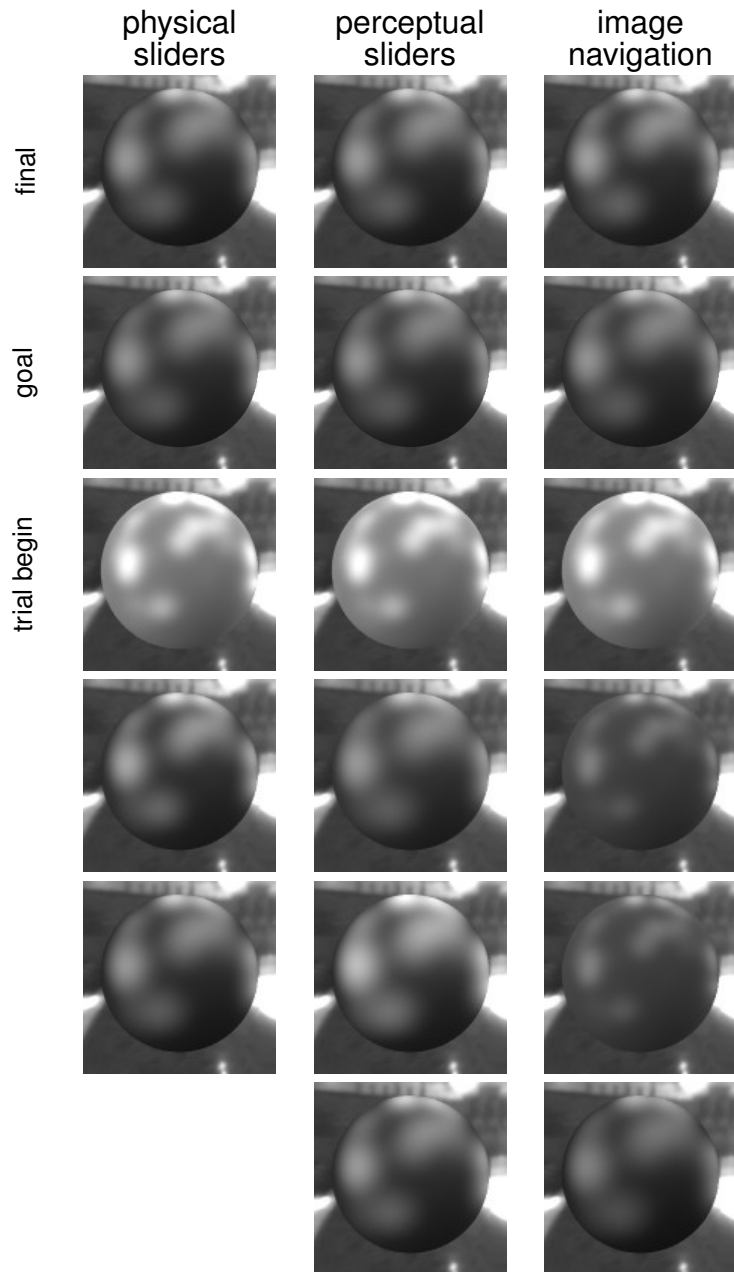
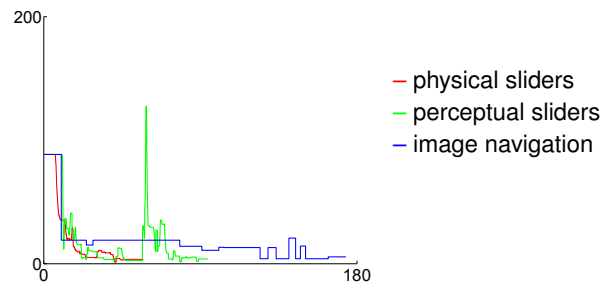
image
navigation



Subject 12

Trial 1

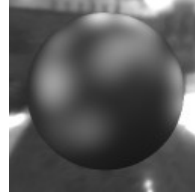
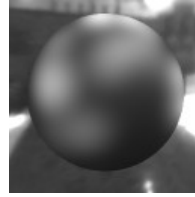
Error Over Time



physical
sliders

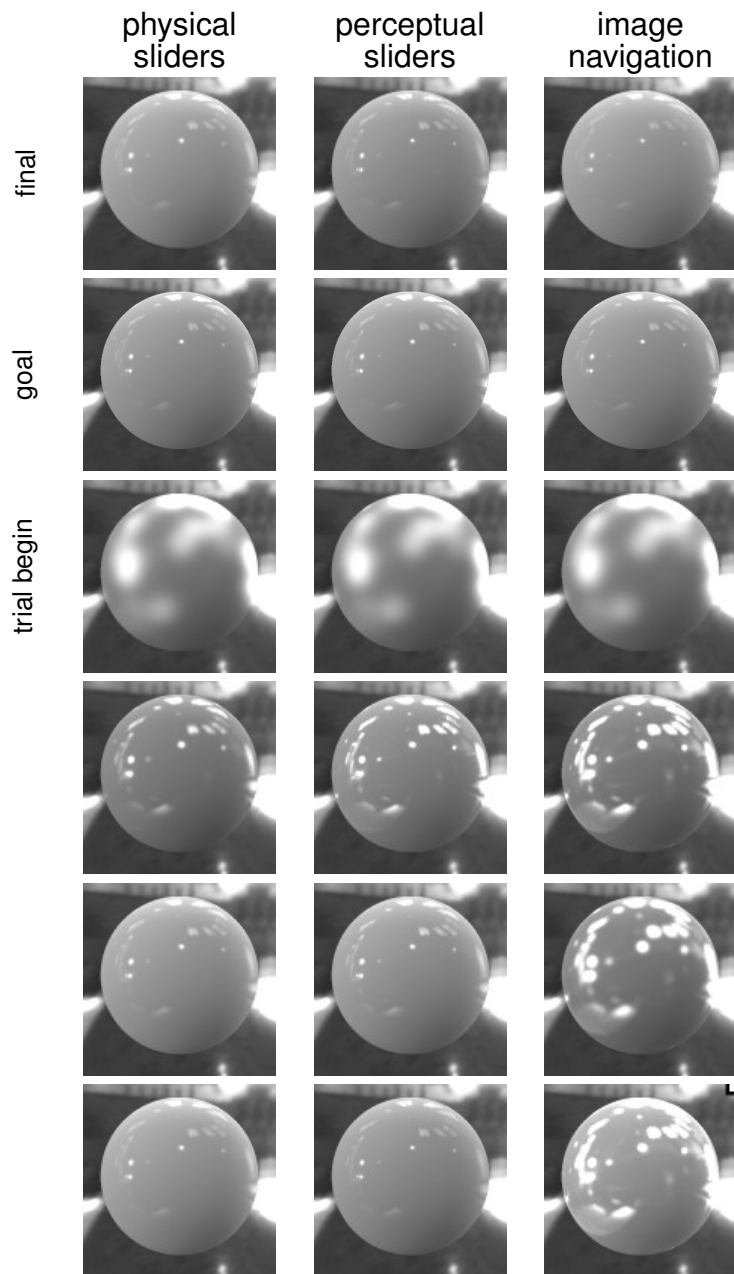
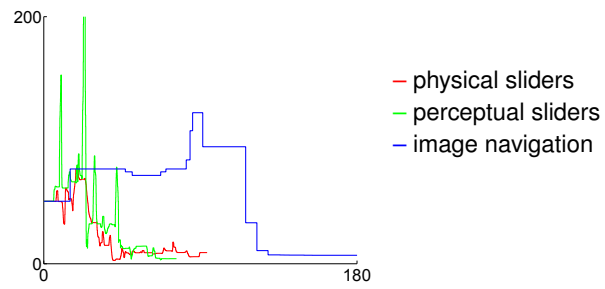
perceptual
sliders

image
navigation



Trial 2

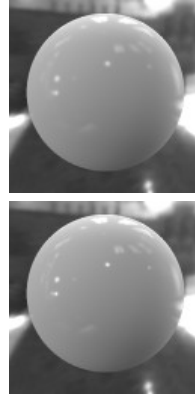
Error Over Time



physical
sliders

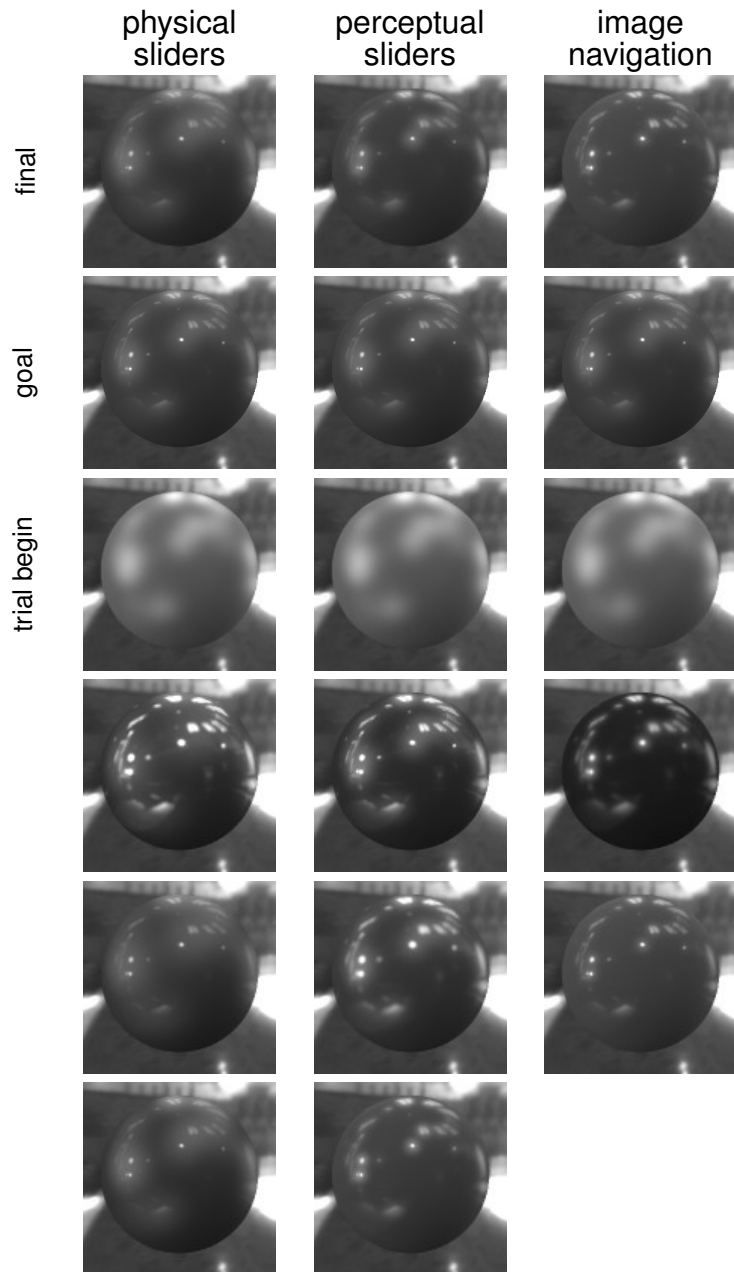
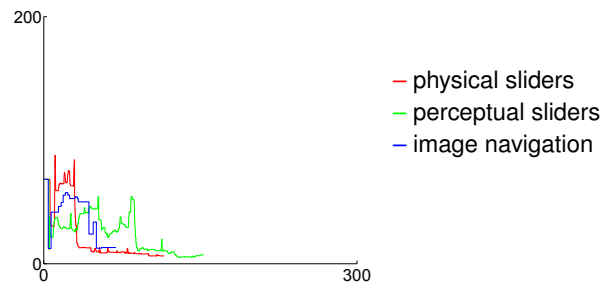
perceptual
sliders

image
navigation

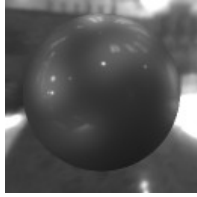


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

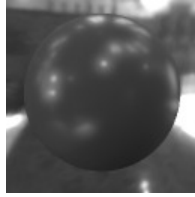
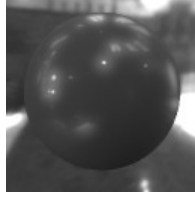
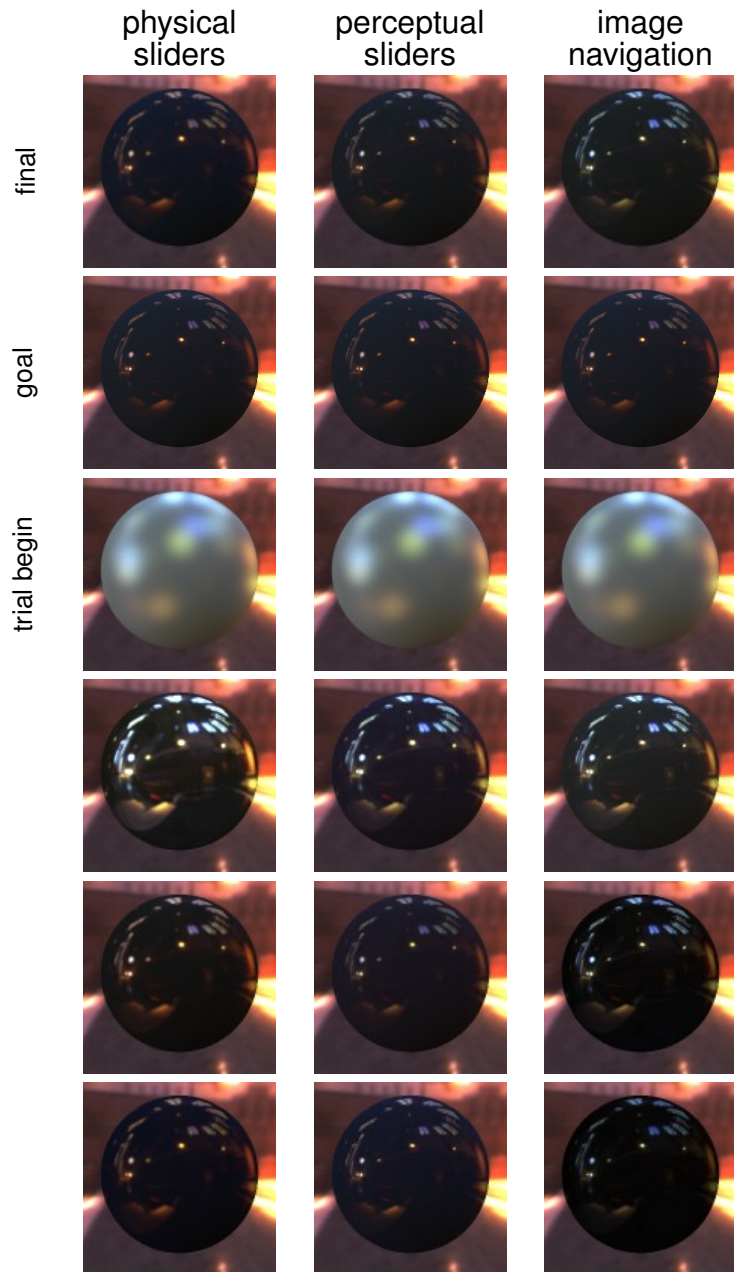
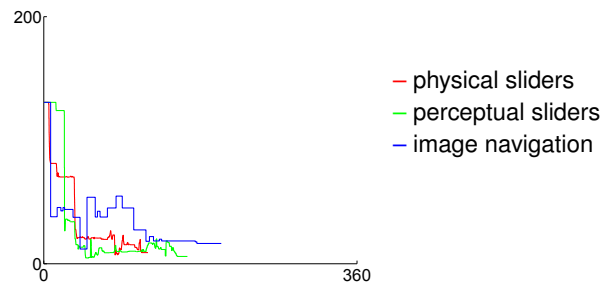


image
navigation

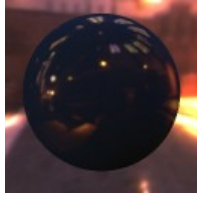


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

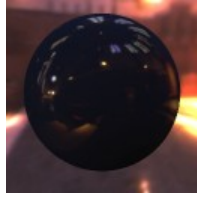
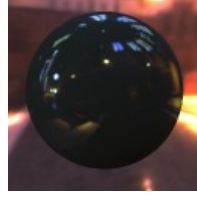
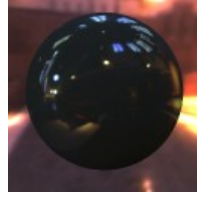
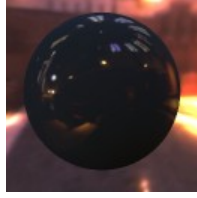
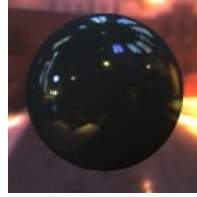
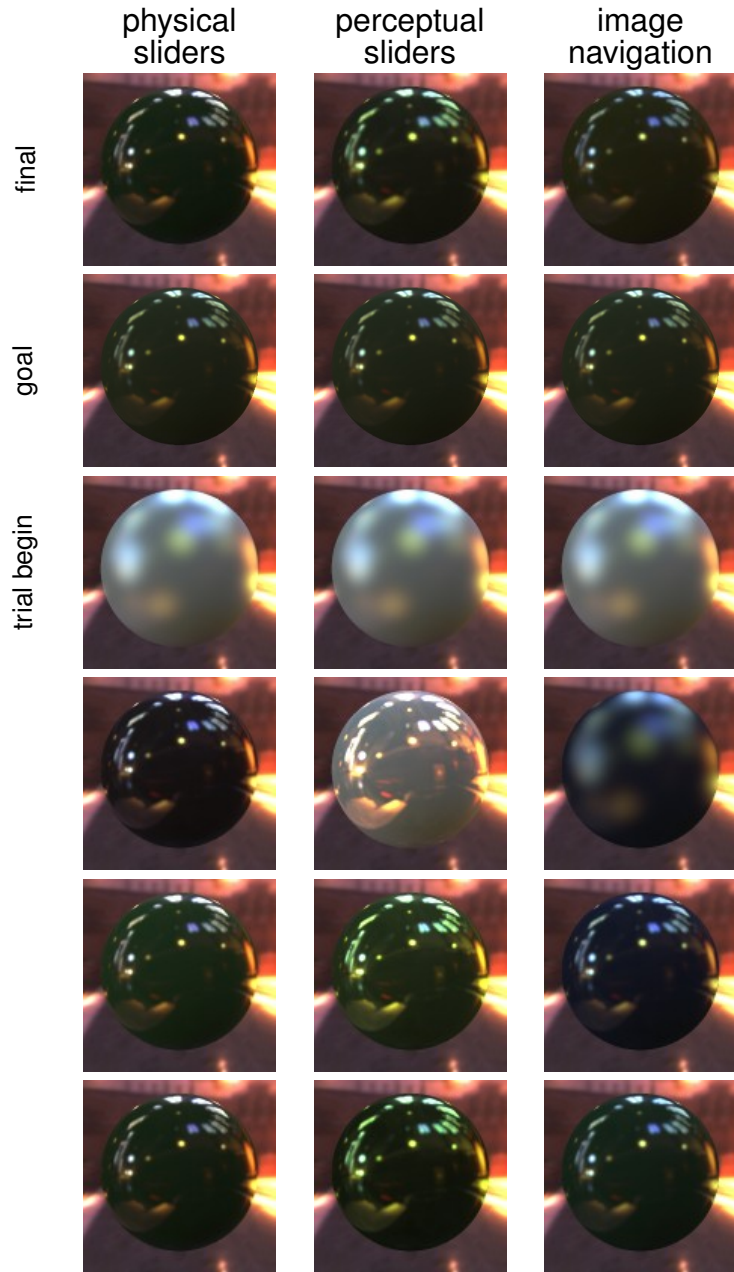
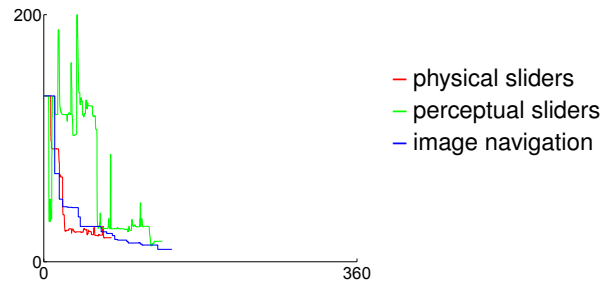


image
navigation



Trial 5

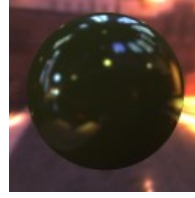
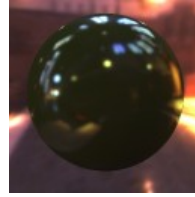
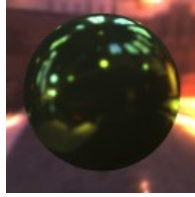
Error Over Time



physical
sliders

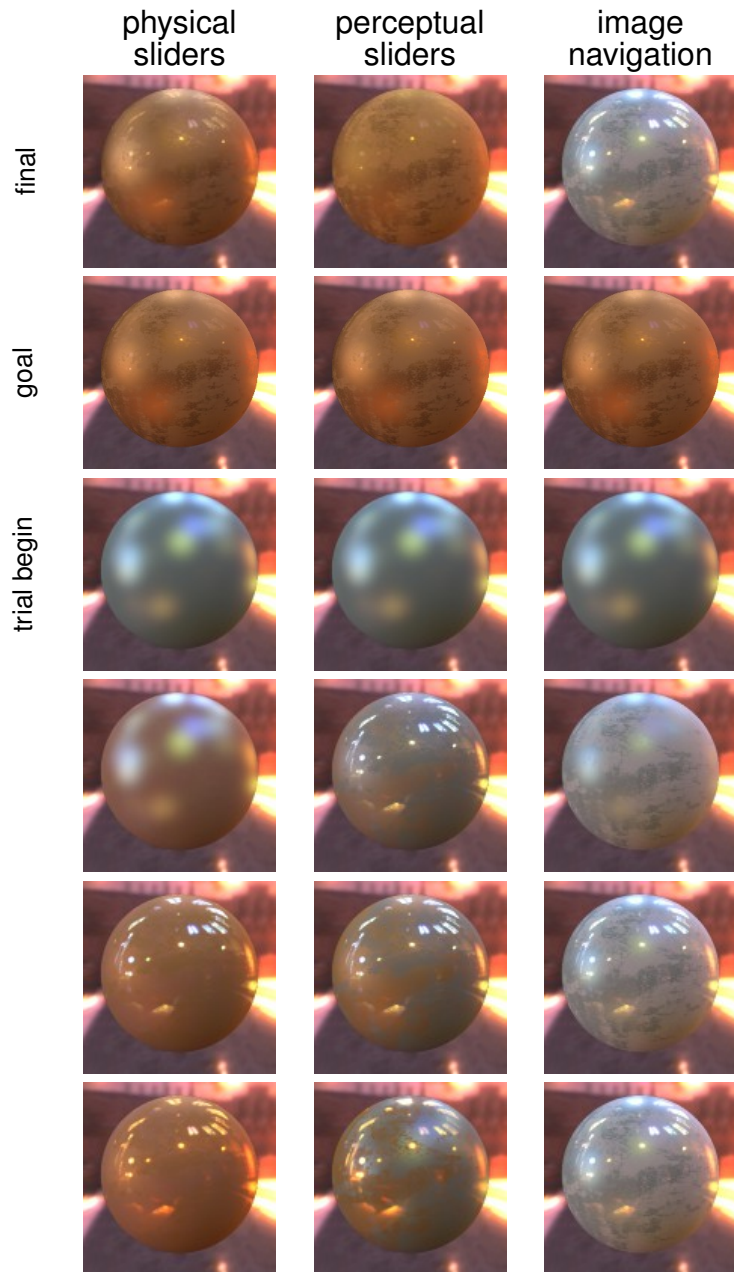
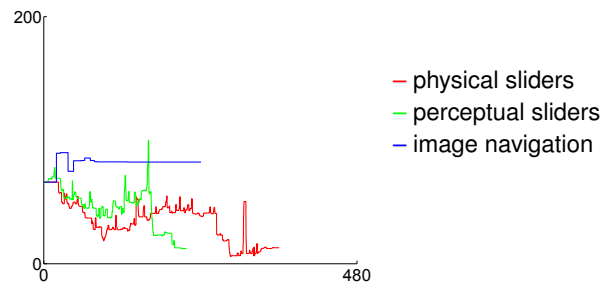
perceptual
sliders

image
navigation

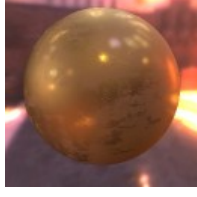
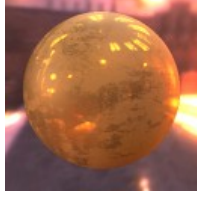
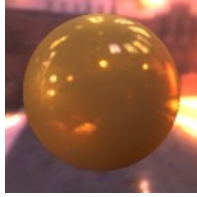


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

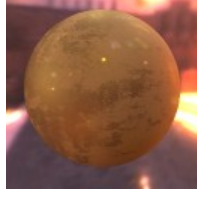
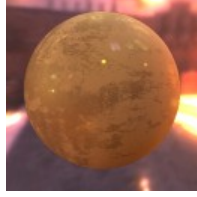
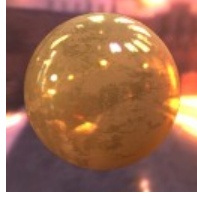
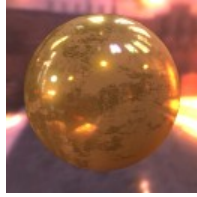
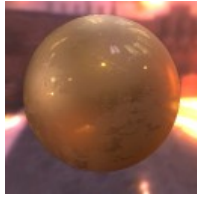


image
navigation



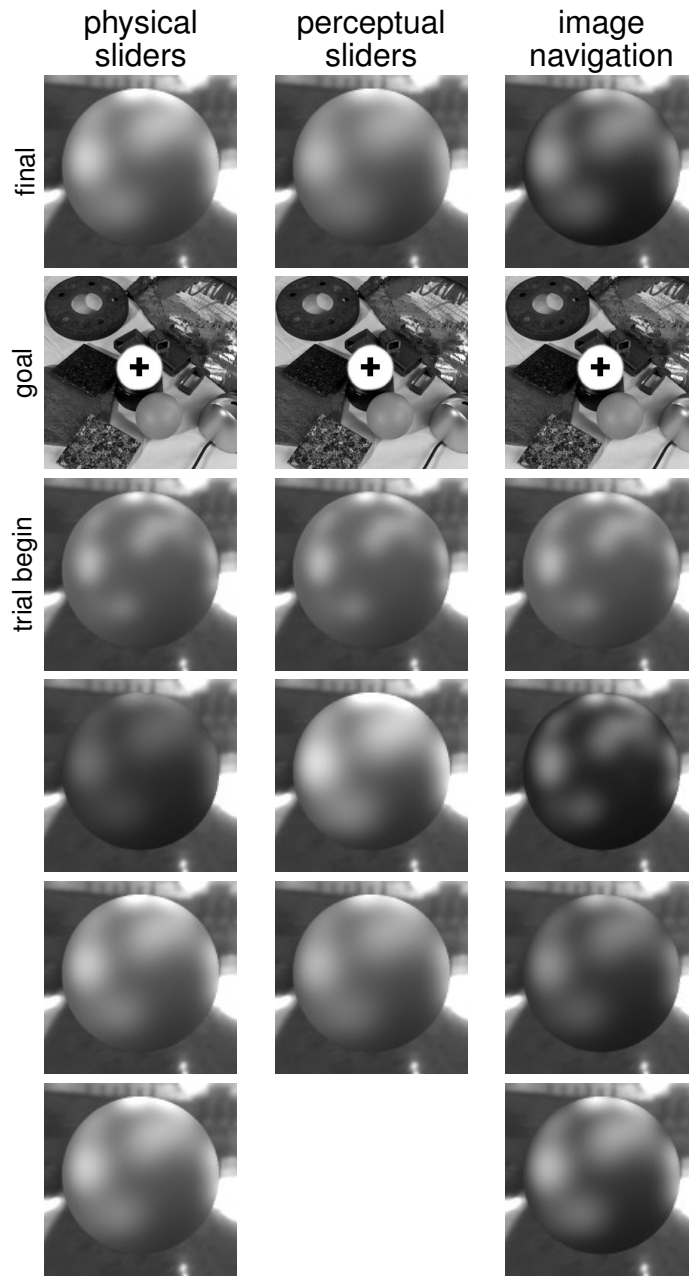
physical
sliders



perceptual
sliders

image
navigation

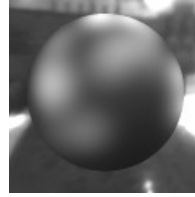
Trial 7



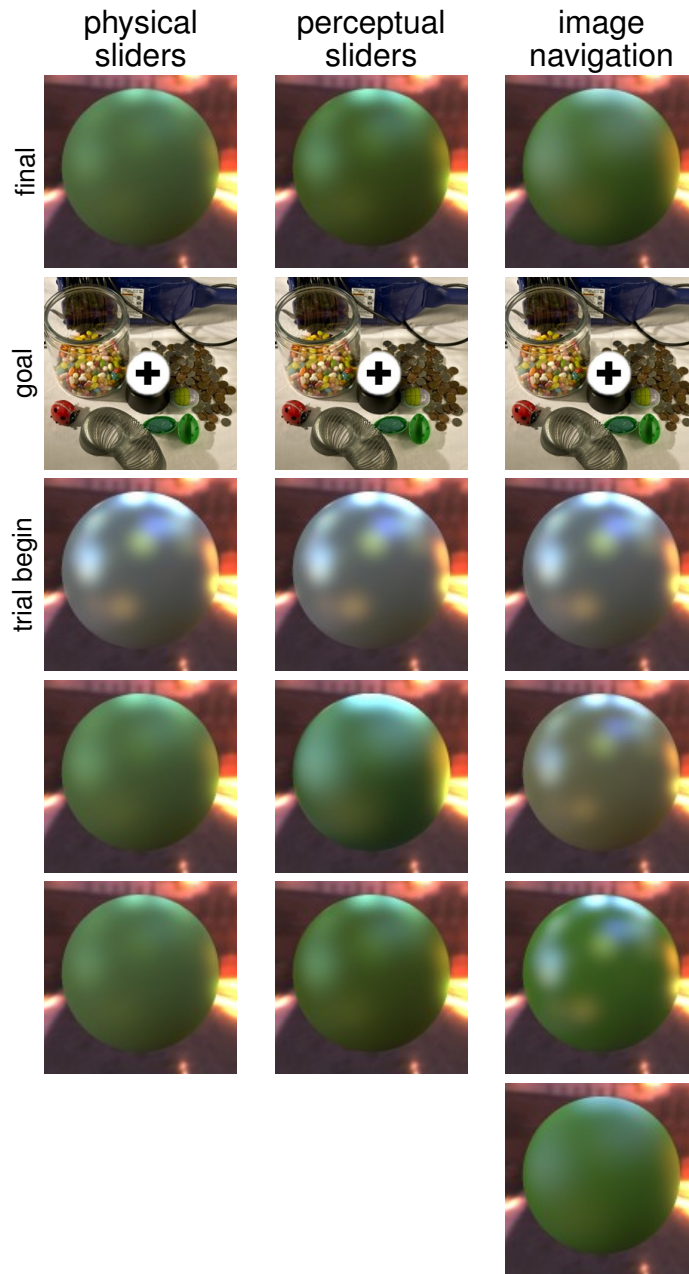
physical
sliders

perceptual
sliders

image
navigation



Trial 8



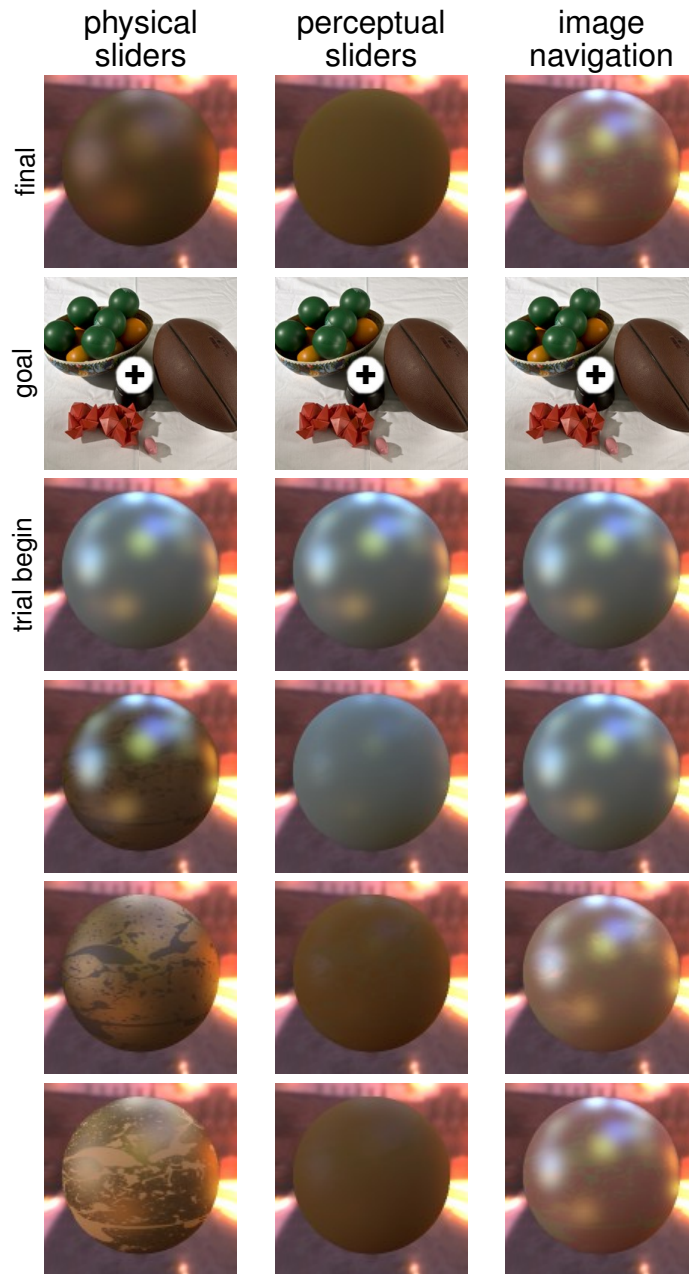
physical
sliders

perceptual
sliders

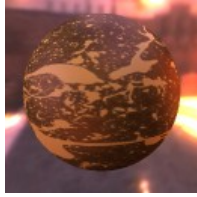
image
navigation



Trial 9



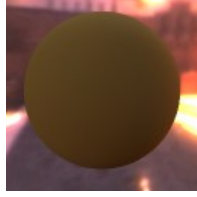
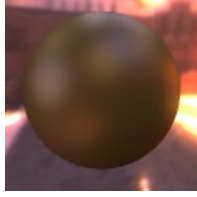
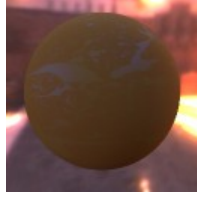
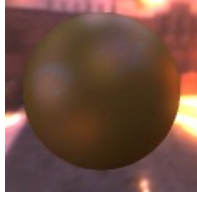
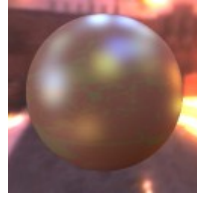
physical
sliders



perceptual
sliders



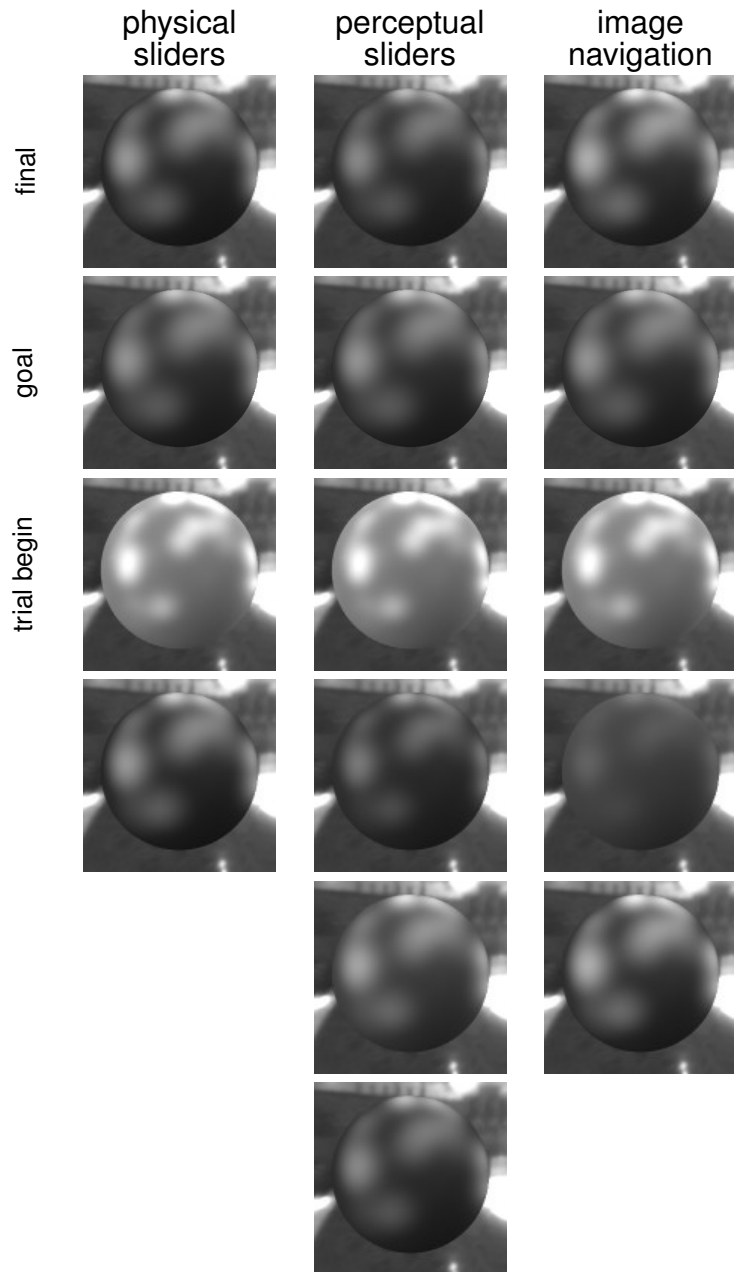
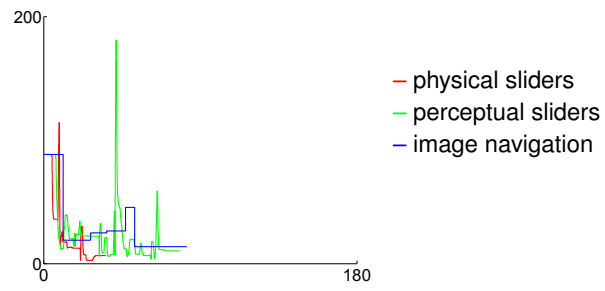
image
navigation



Subject 13

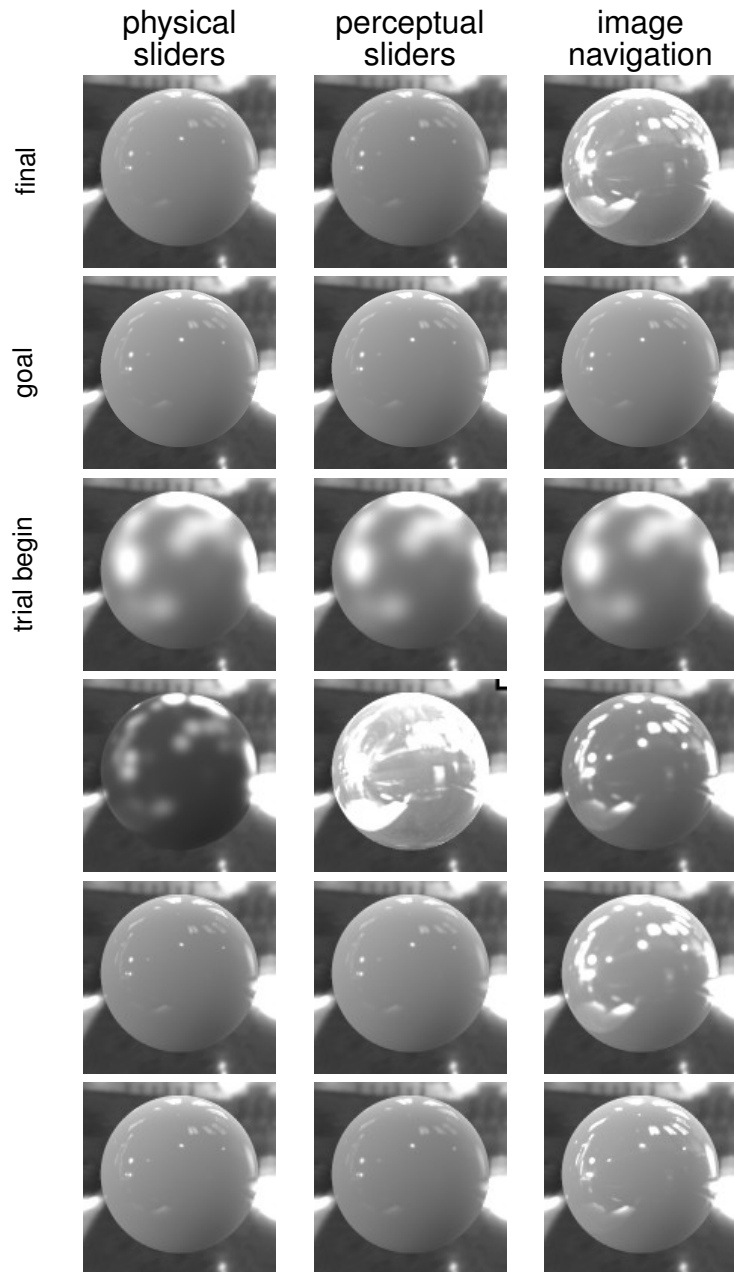
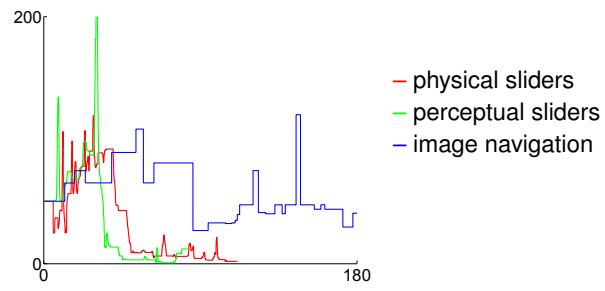
Trial 1

Error Over Time



Trial 2

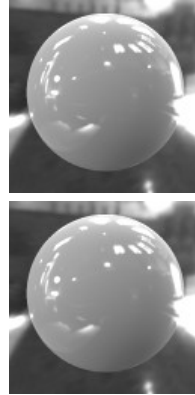
Error Over Time



physical
sliders

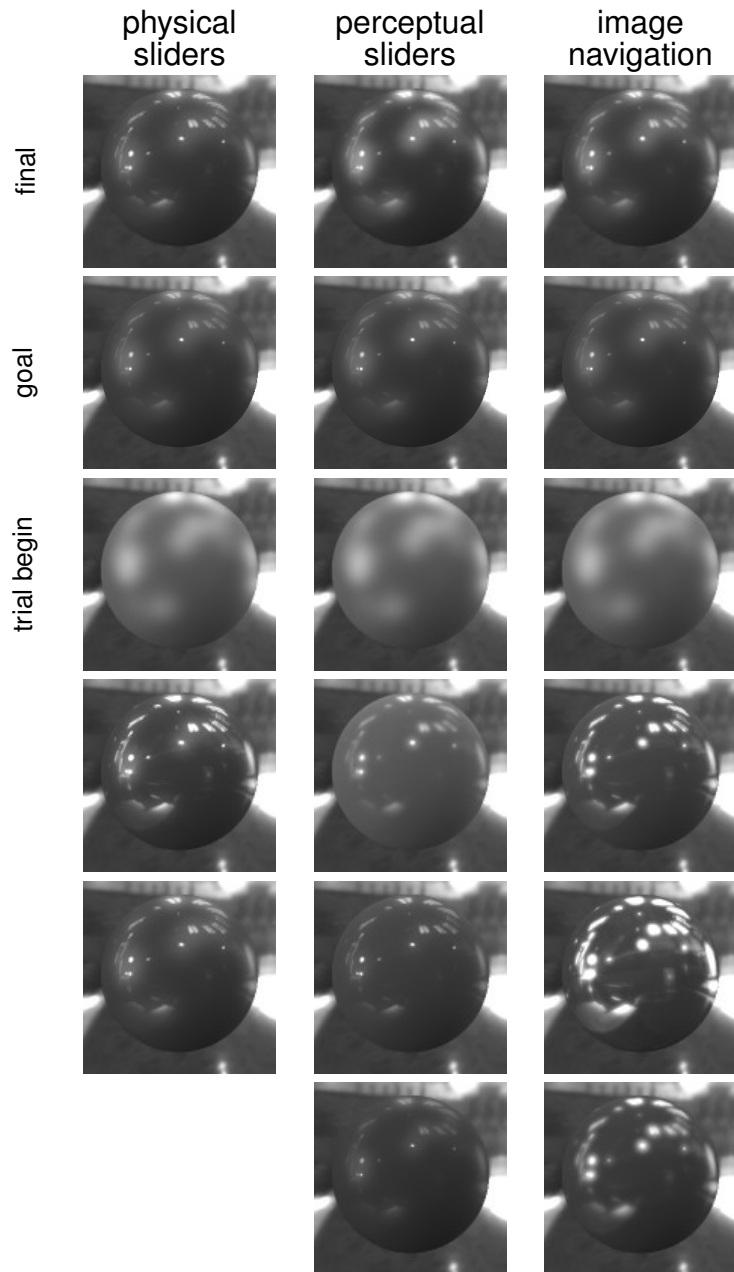
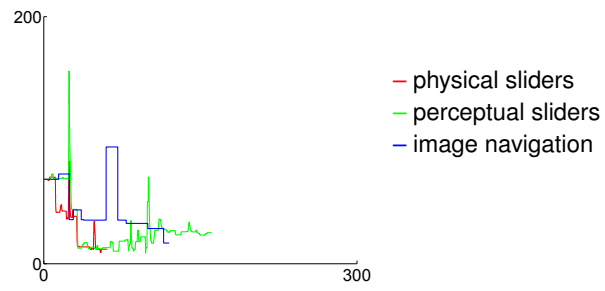
perceptual
sliders

image
navigation



Trial 3

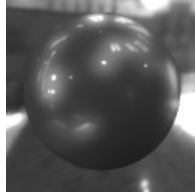
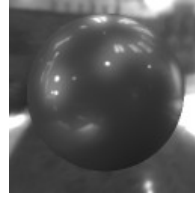
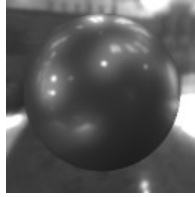
Error Over Time



physical
sliders

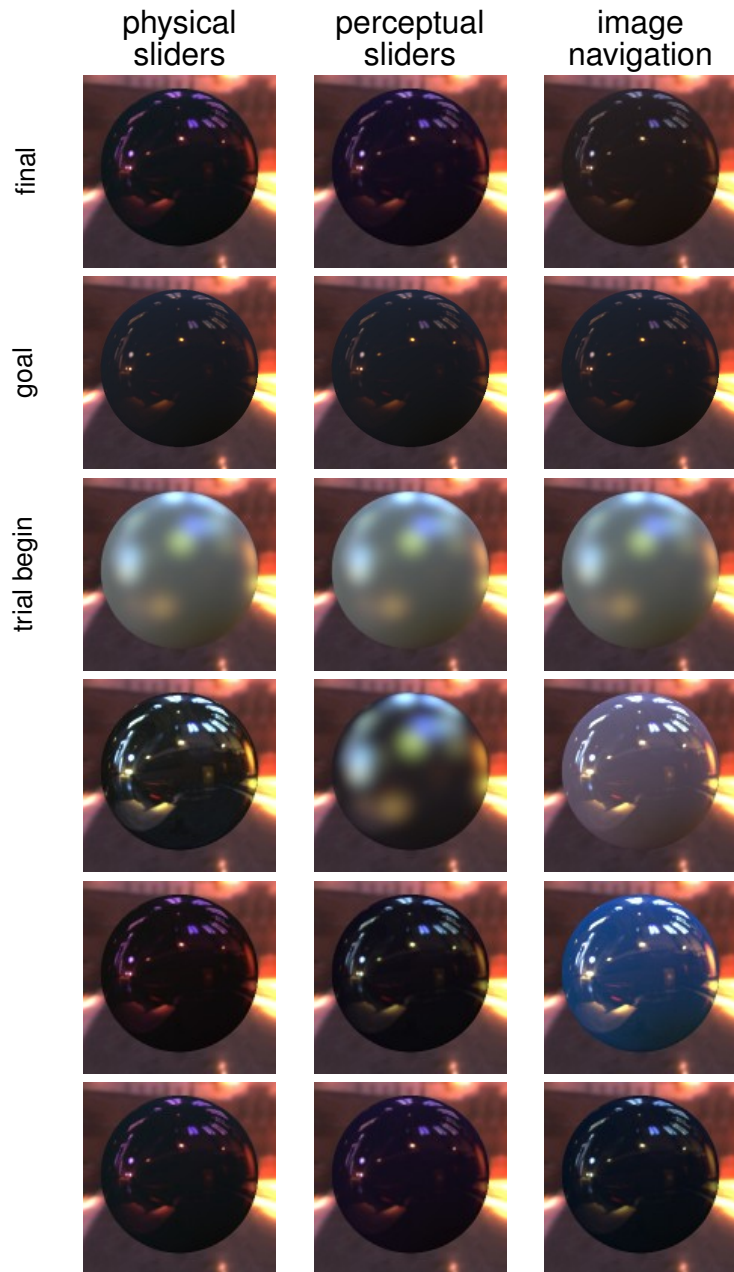
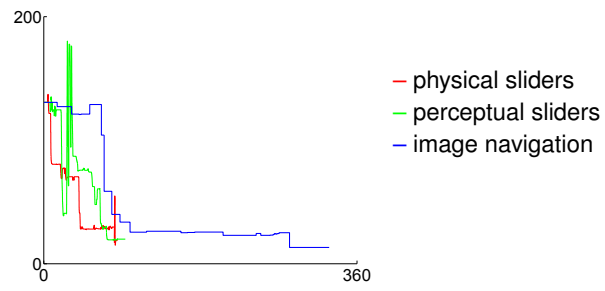
perceptual
sliders

image
navigation



Trial 4

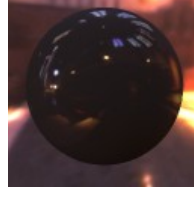
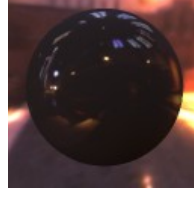
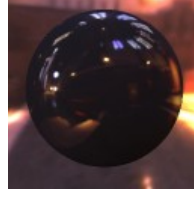
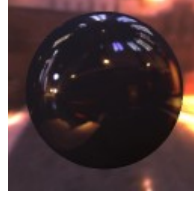
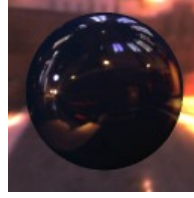
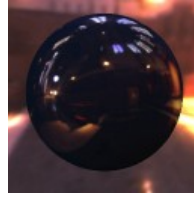
Error Over Time



physical
sliders

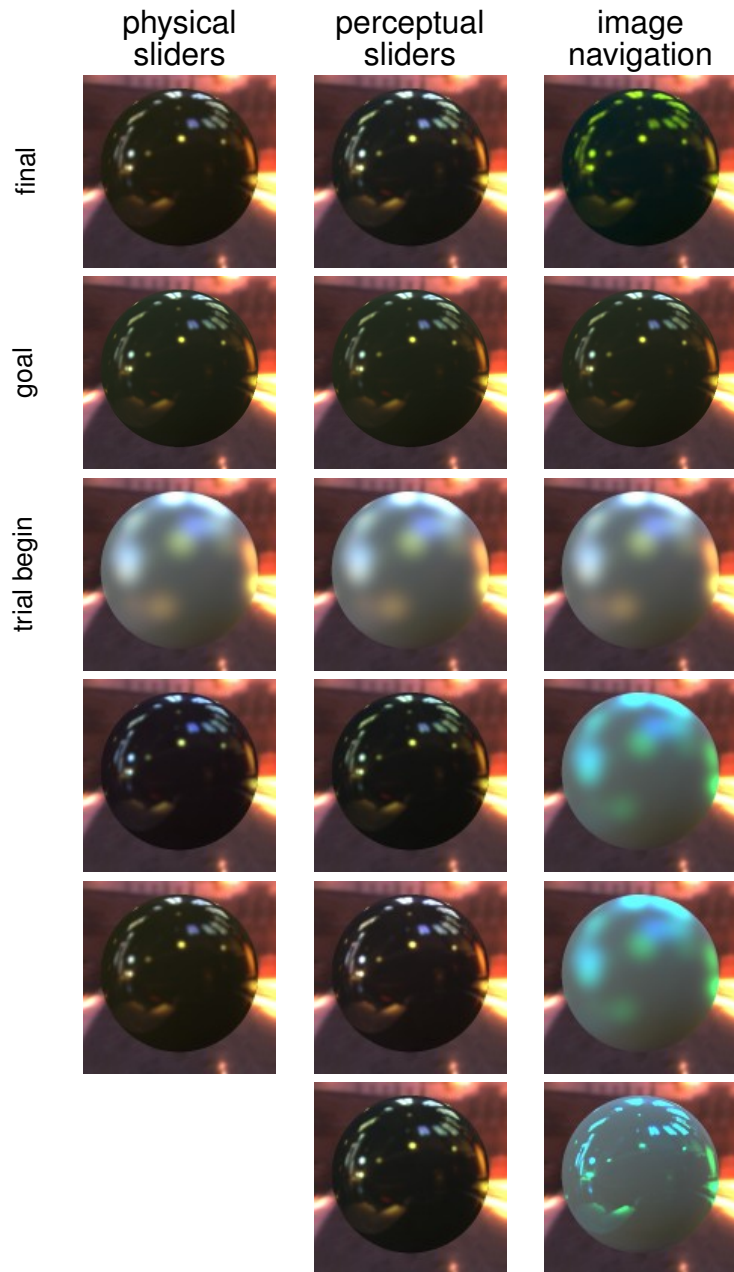
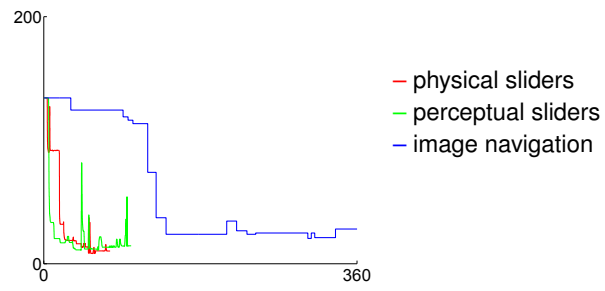
perceptual
sliders

image
navigation



Trial 5

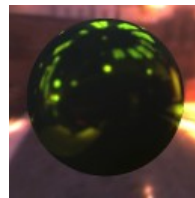
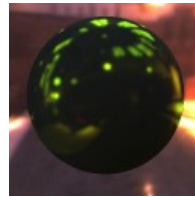
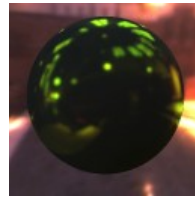
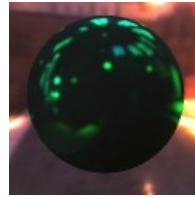
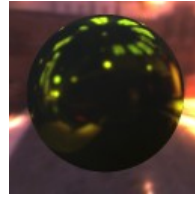
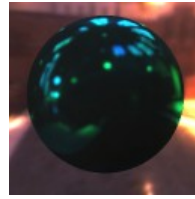
Error Over Time



physical
sliders

perceptual
sliders

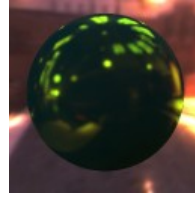
image
navigation



physical
sliders

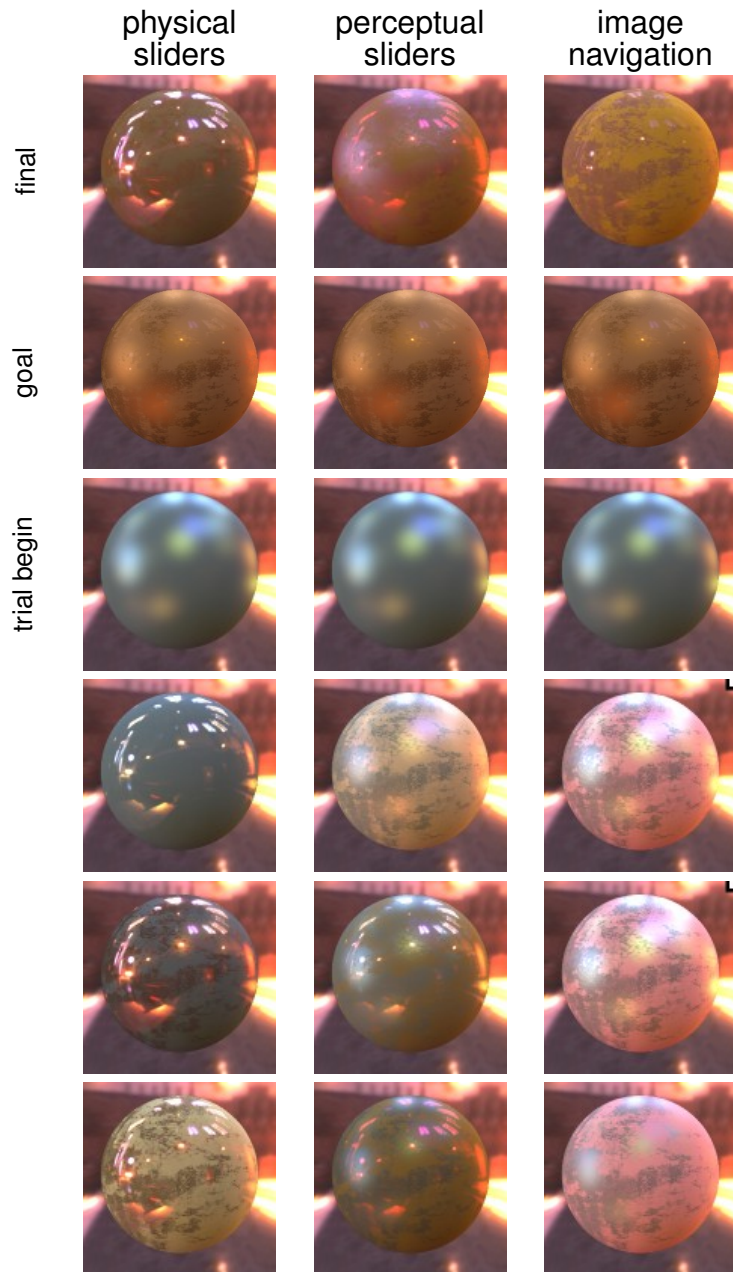
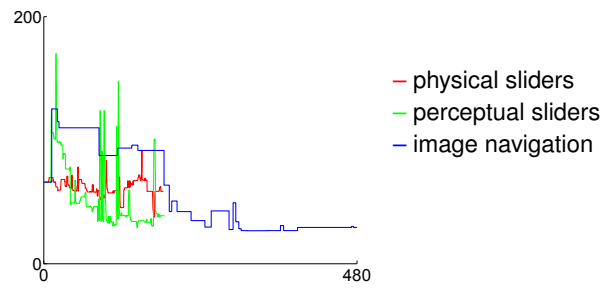
perceptual
sliders

image
navigation

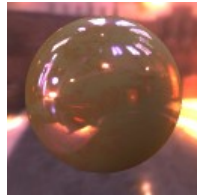
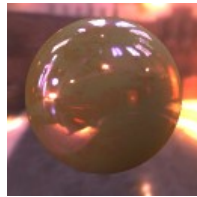


Trial 6

Error Over Time



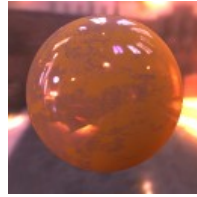
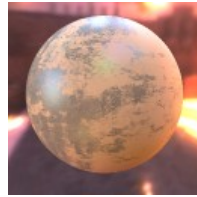
physical
sliders



perceptual
sliders



image
navigation



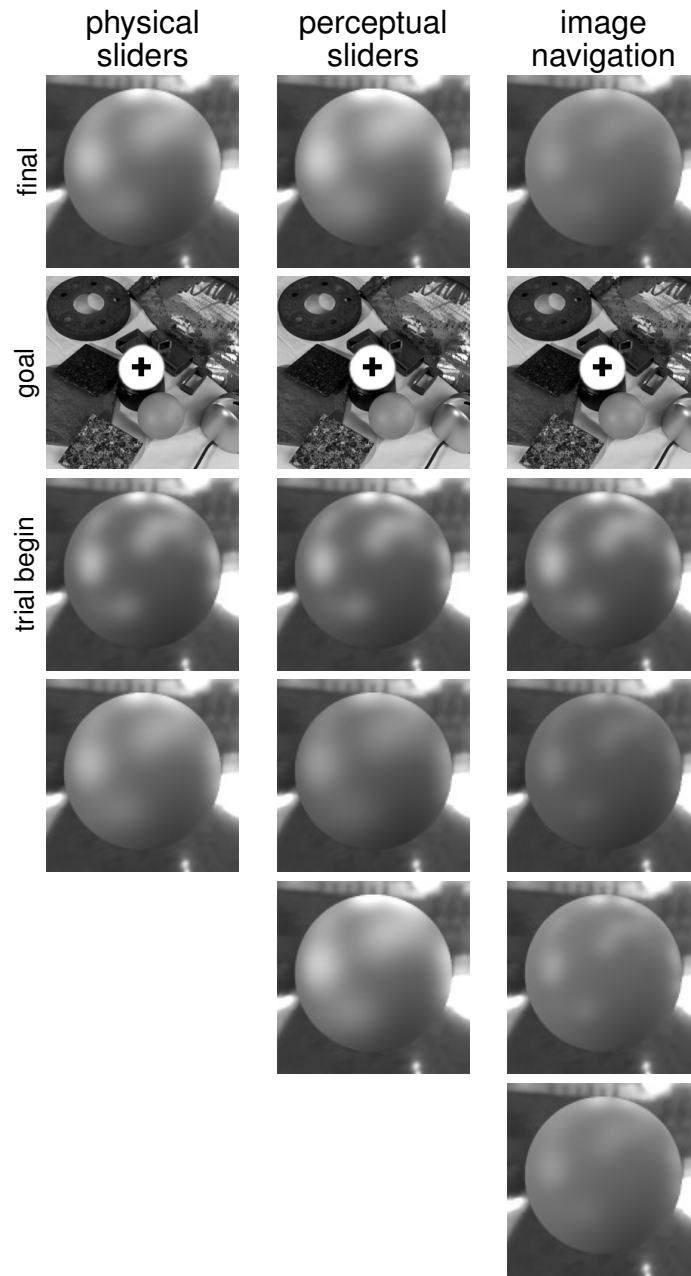
physical
sliders

perceptual
sliders

image
navigation



Trial 7



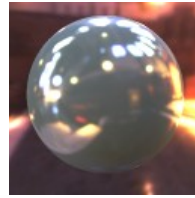
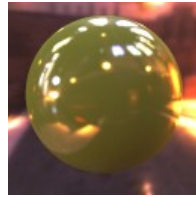
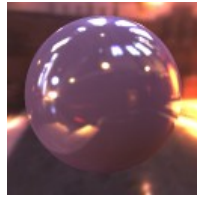
Trial 8

physical
sliders

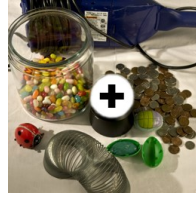
perceptual
sliders

image
navigation

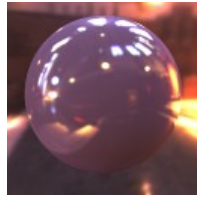
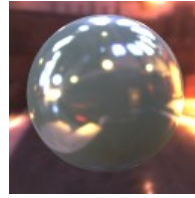
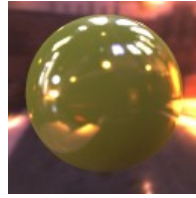
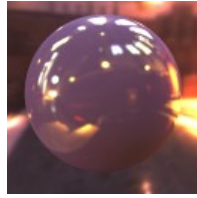
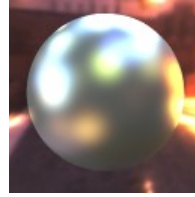
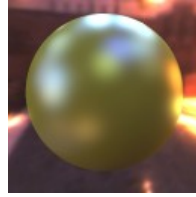
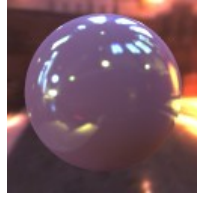
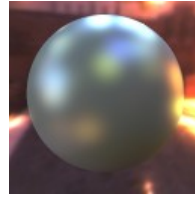
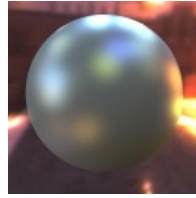
final



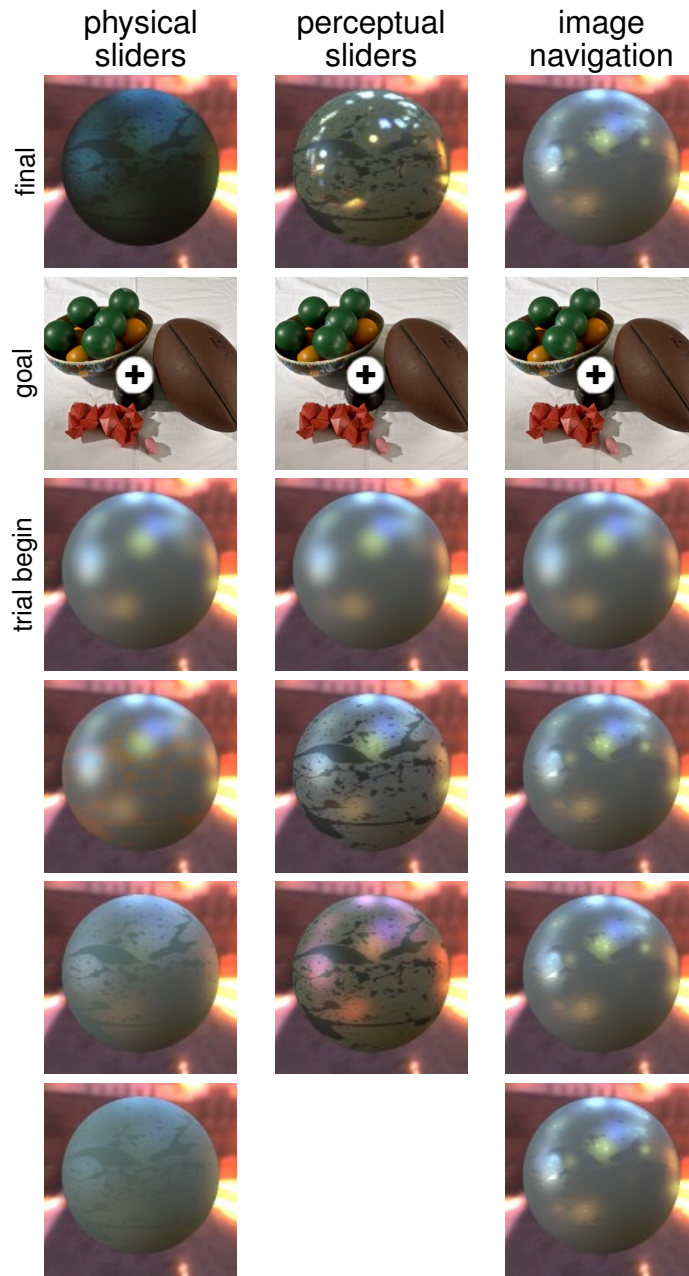
goal



trial begin



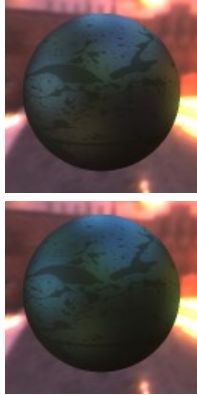
Trial 9



physical
sliders

perceptual
sliders

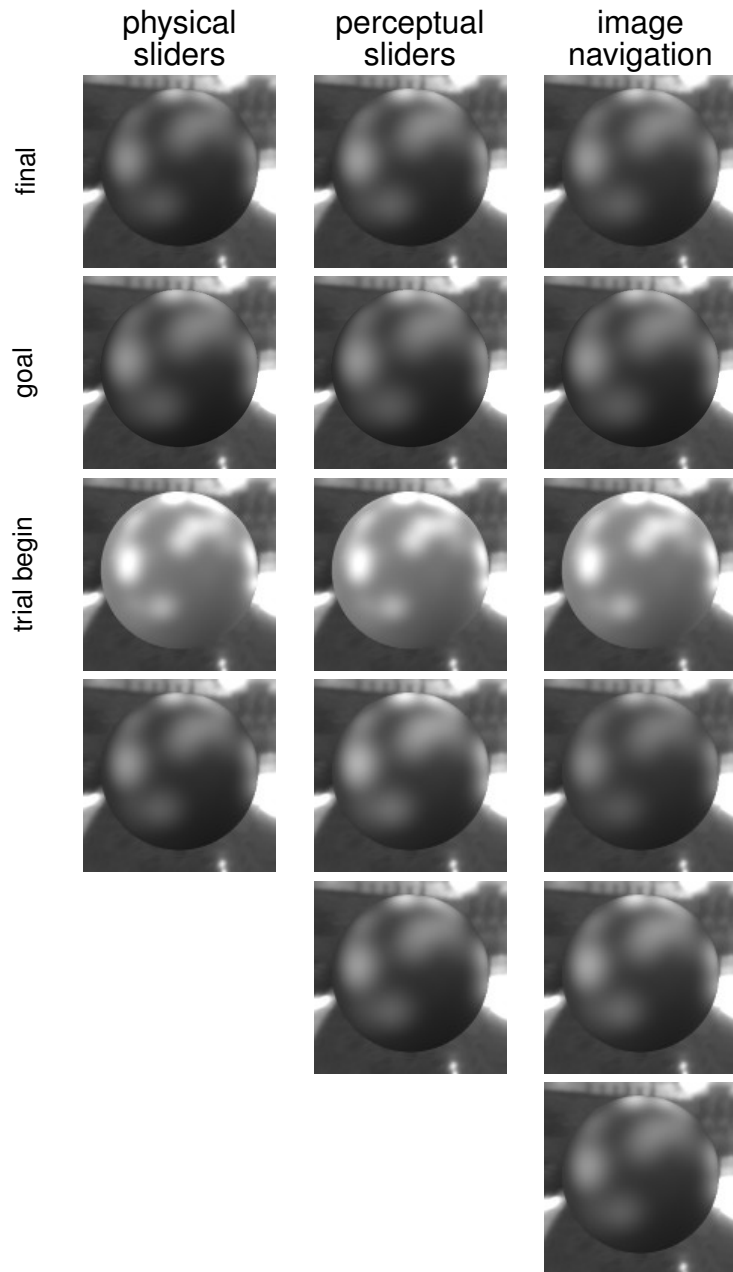
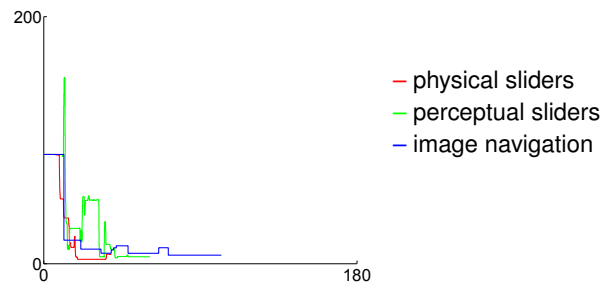
image
navigation



Subject 14

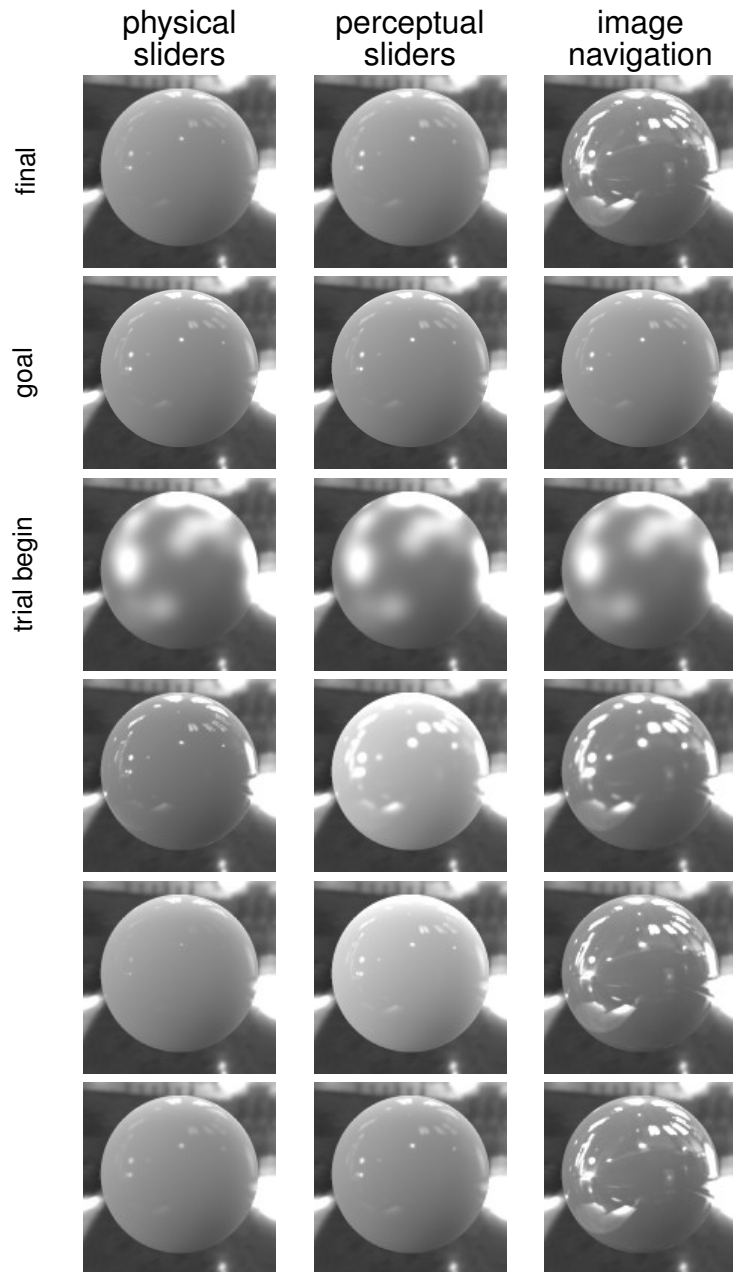
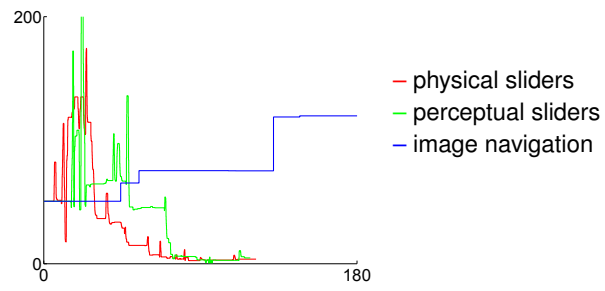
Trial 1

Error Over Time

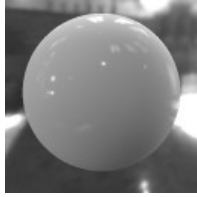


Trial 2

Error Over Time



physical
sliders



perceptual
sliders

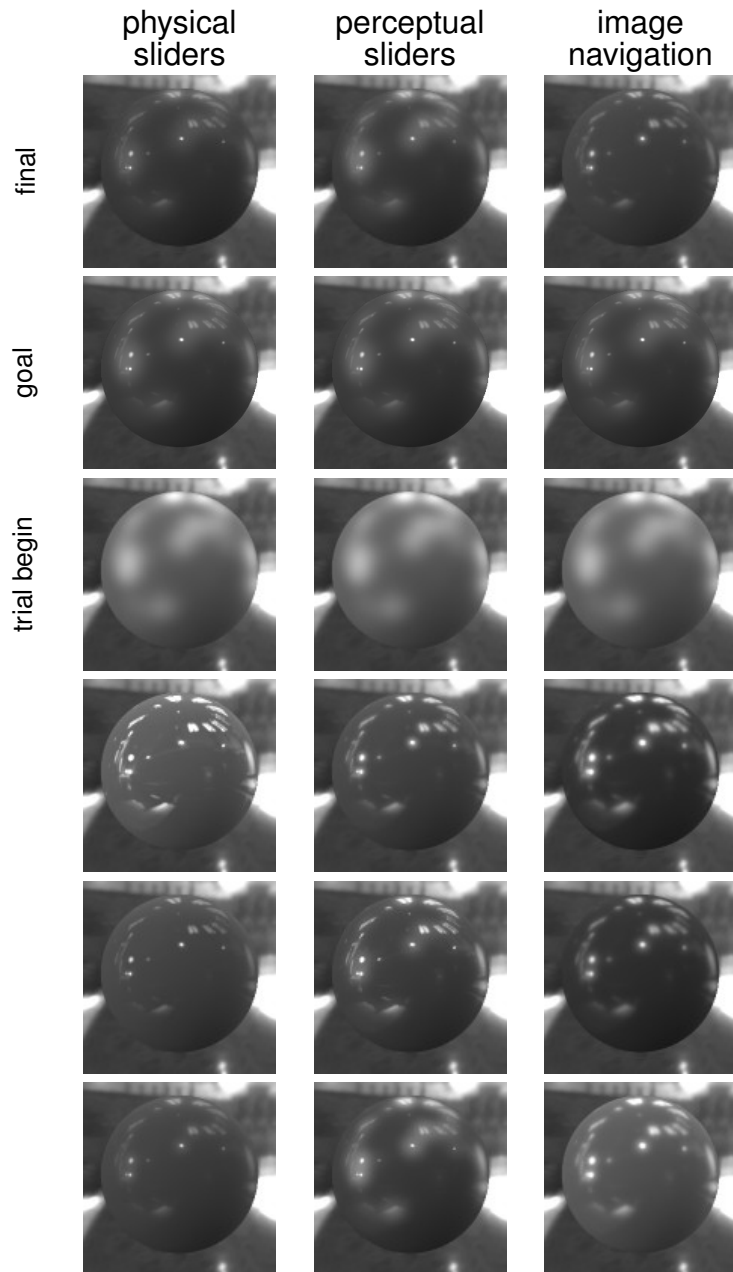
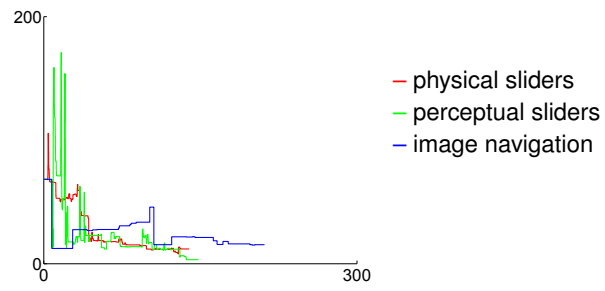


image
navigation



Trial 3

Error Over Time



physical
sliders



perceptual
sliders

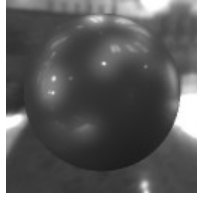
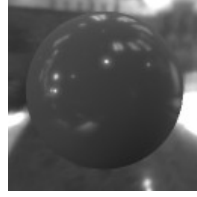
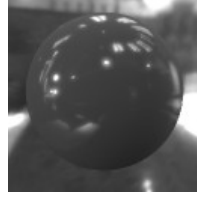
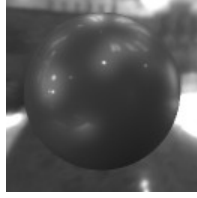
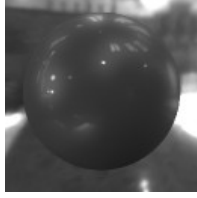
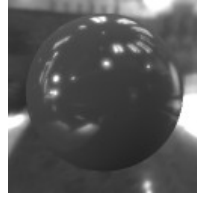
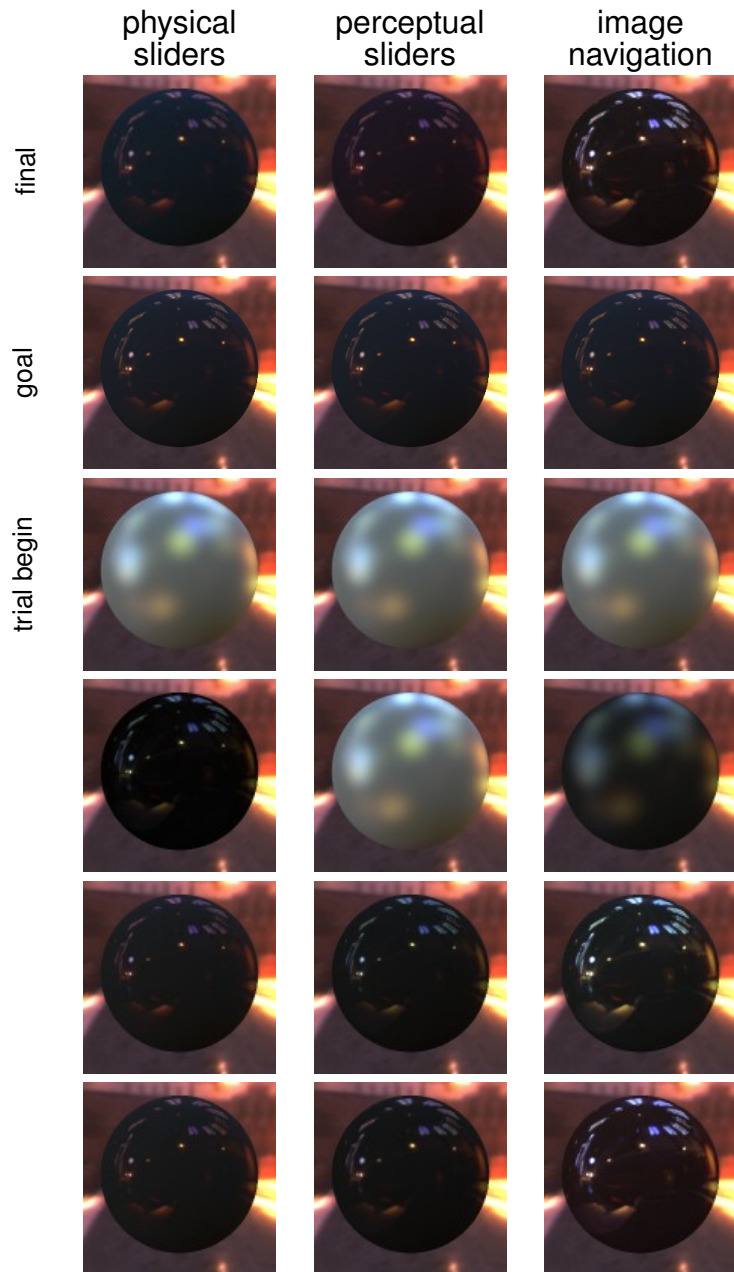
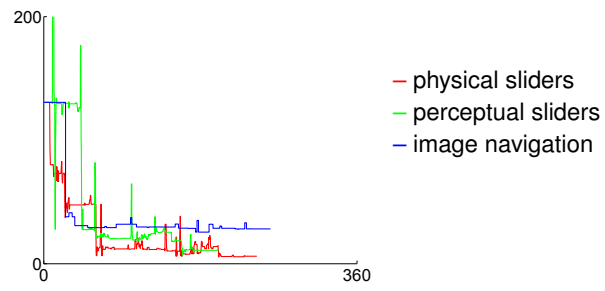


image
navigation

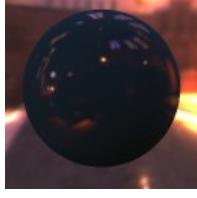
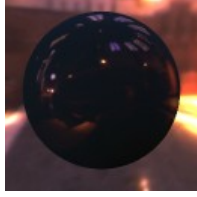
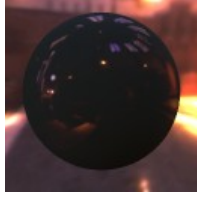
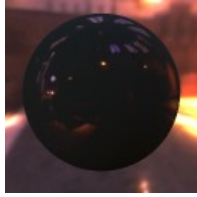


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

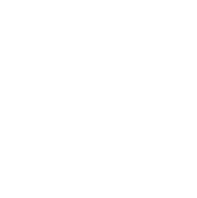
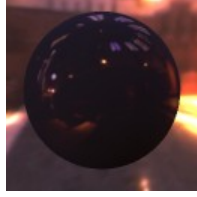
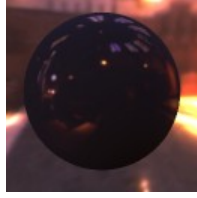
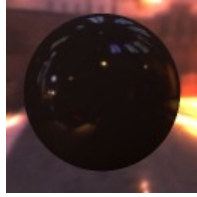
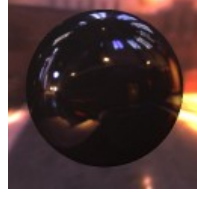
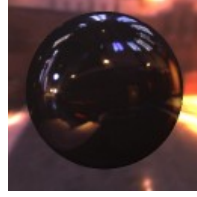
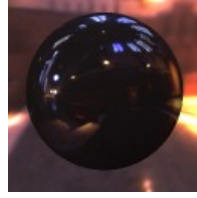
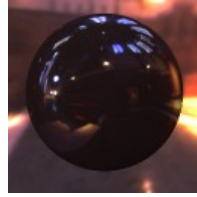
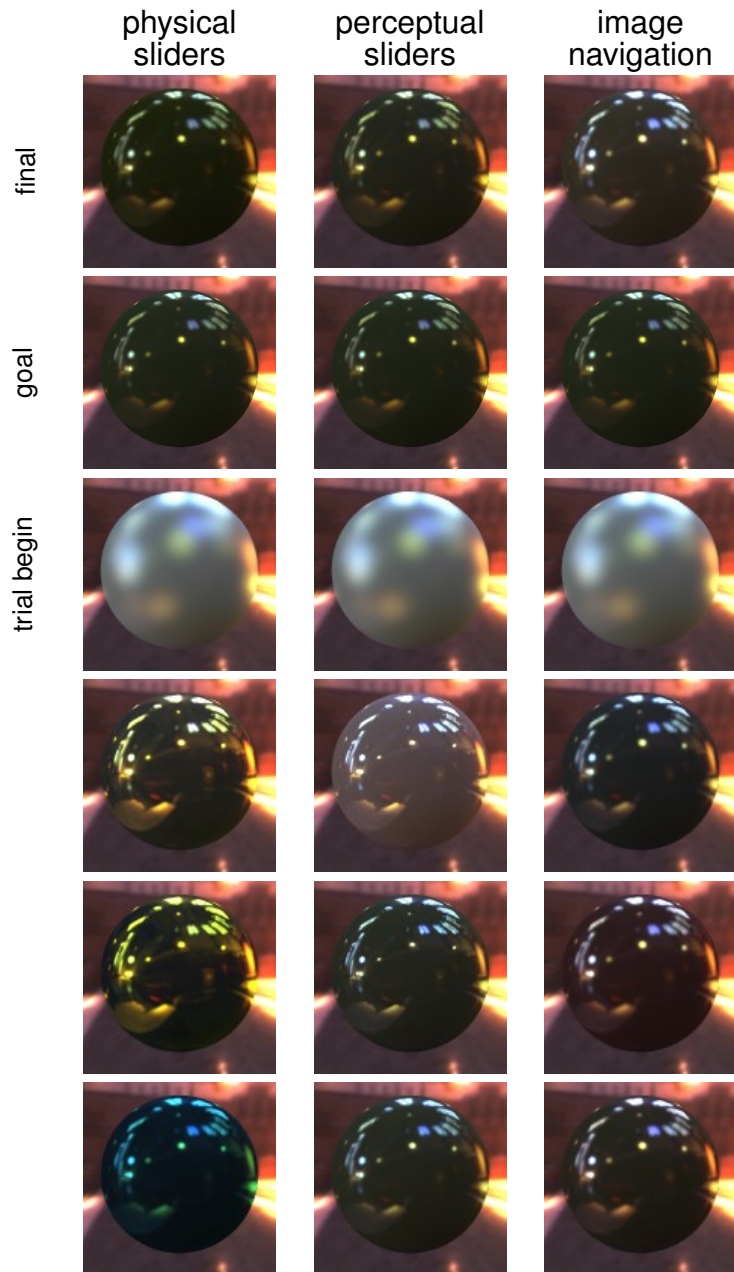
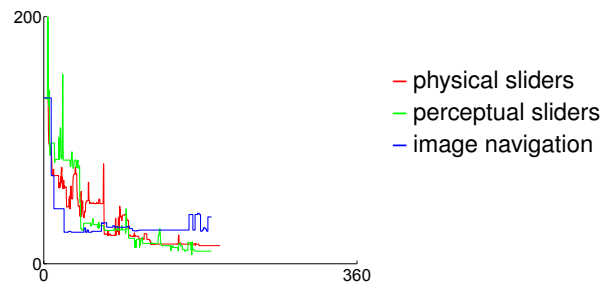


image
navigation

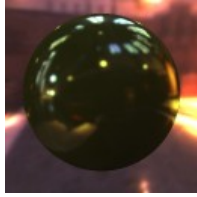


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

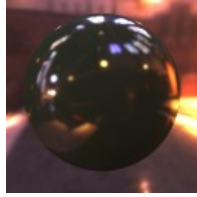
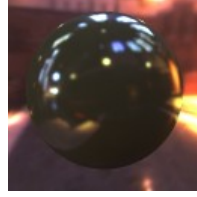
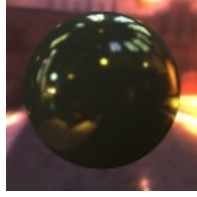
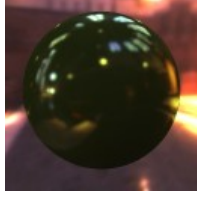
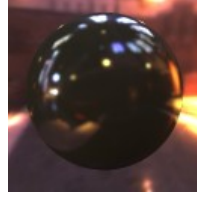
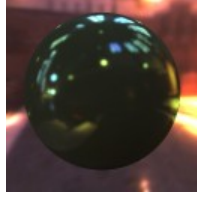
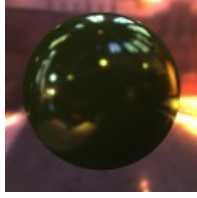
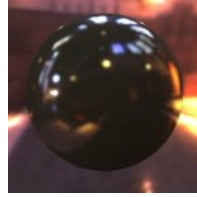
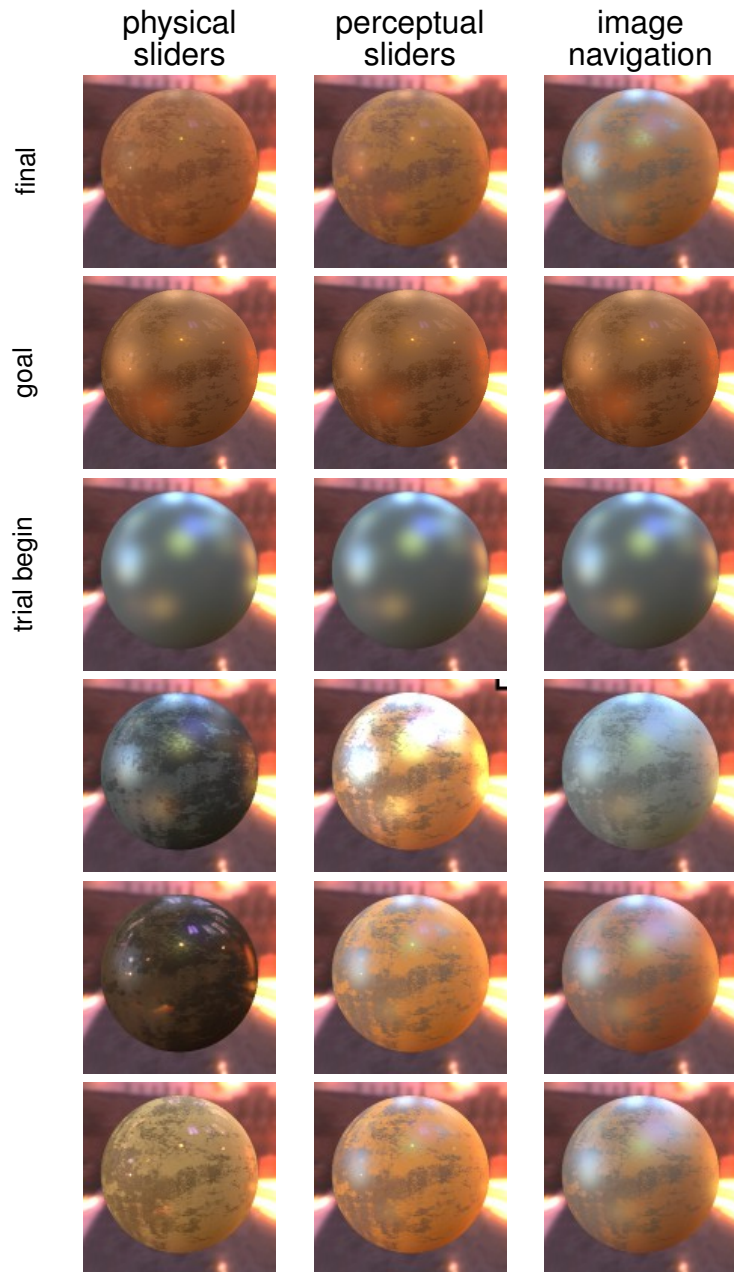
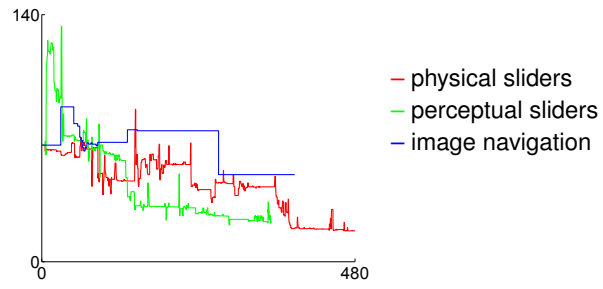


image
navigation



Trial 6

Error Over Time



physical
sliders



perceptual
sliders

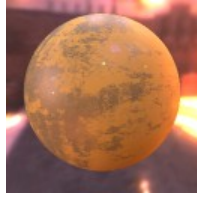
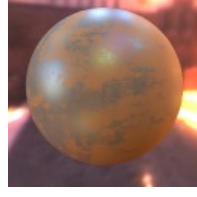
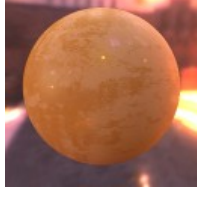
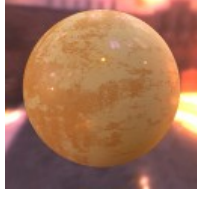
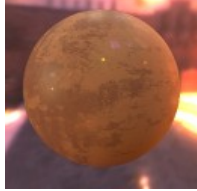
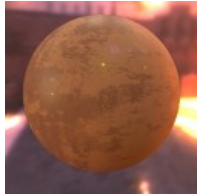


image
navigation



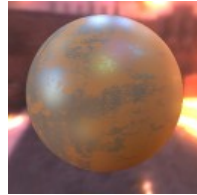
physical
sliders



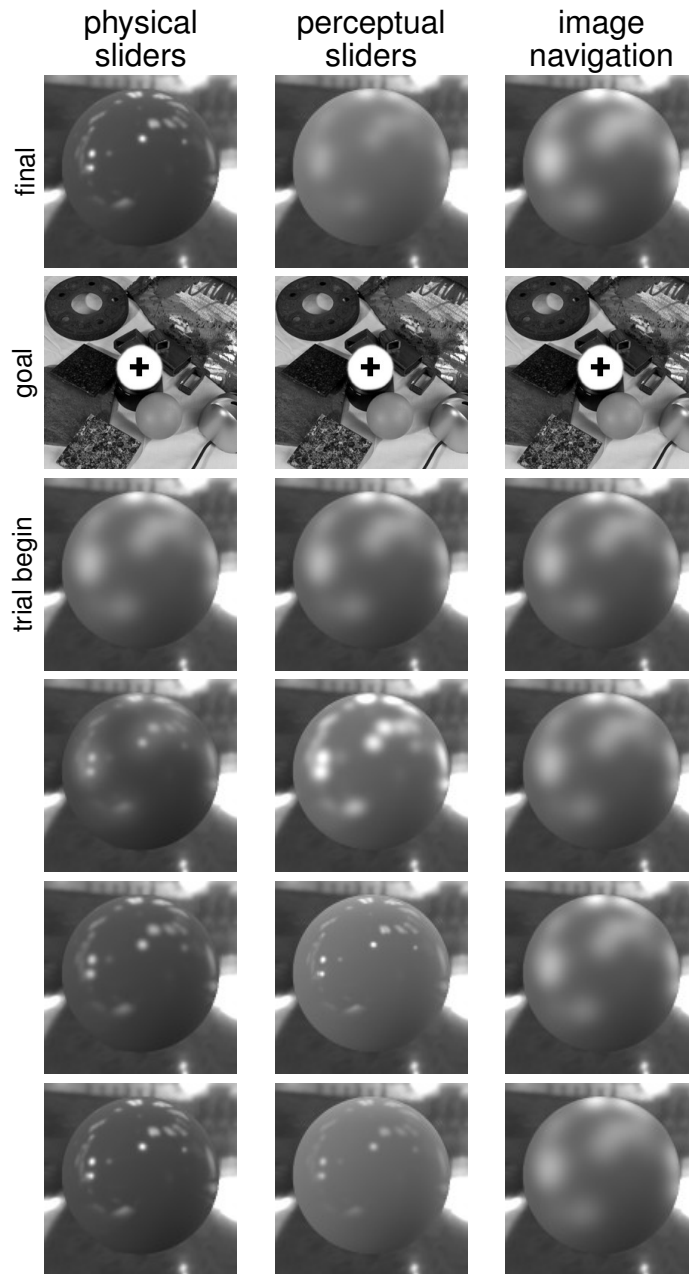
perceptual
sliders



image
navigation



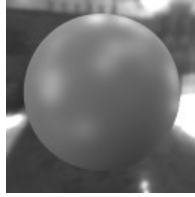
Trial 7



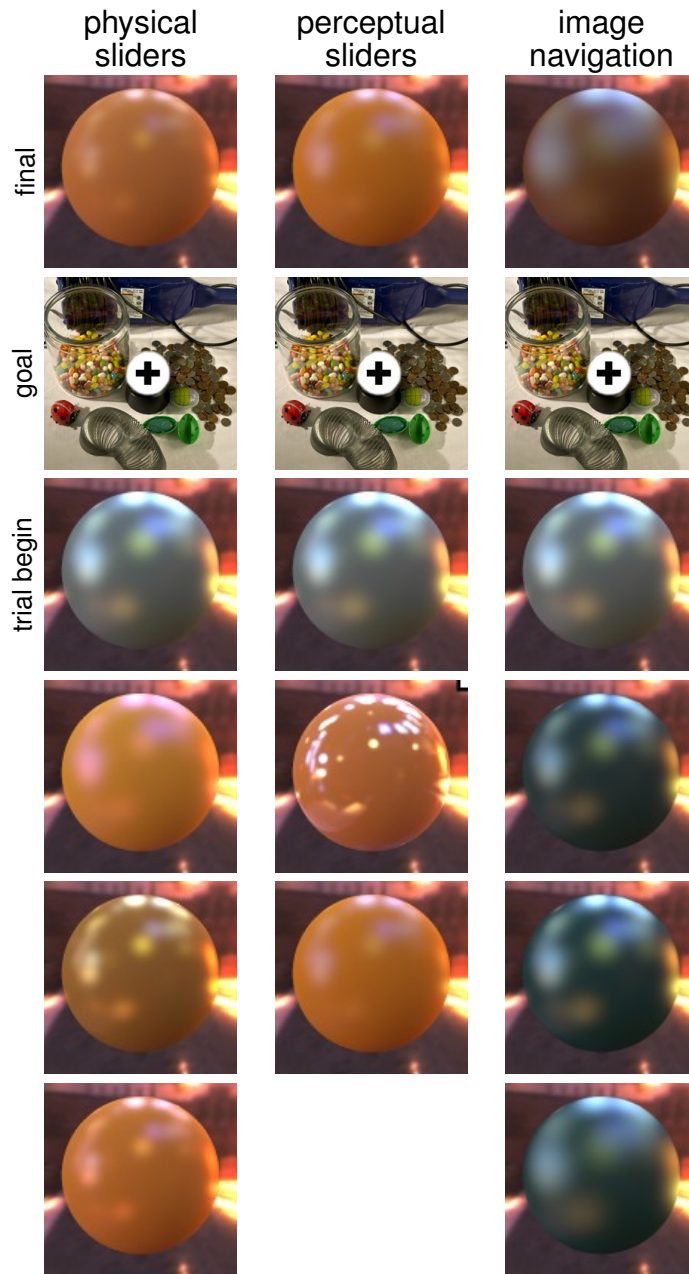
physical
sliders

perceptual
sliders

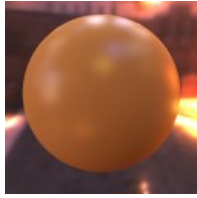
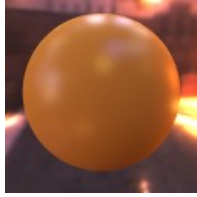
image
navigation



Trial 8

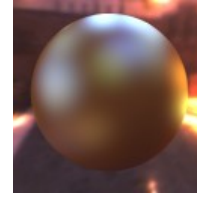


physical
sliders



perceptual
sliders

image
navigation



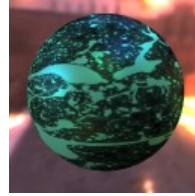
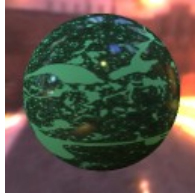
Trial 9

physical
sliders

perceptual
sliders

image
navigation

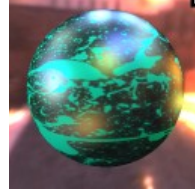
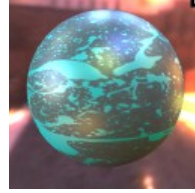
final



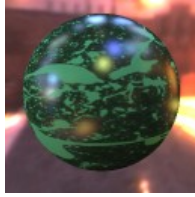
goal



trial
begin



physical
sliders



perceptual
sliders

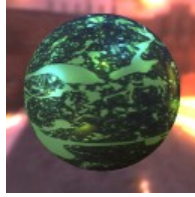
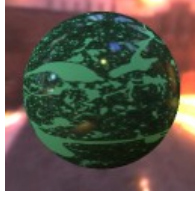
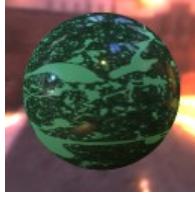


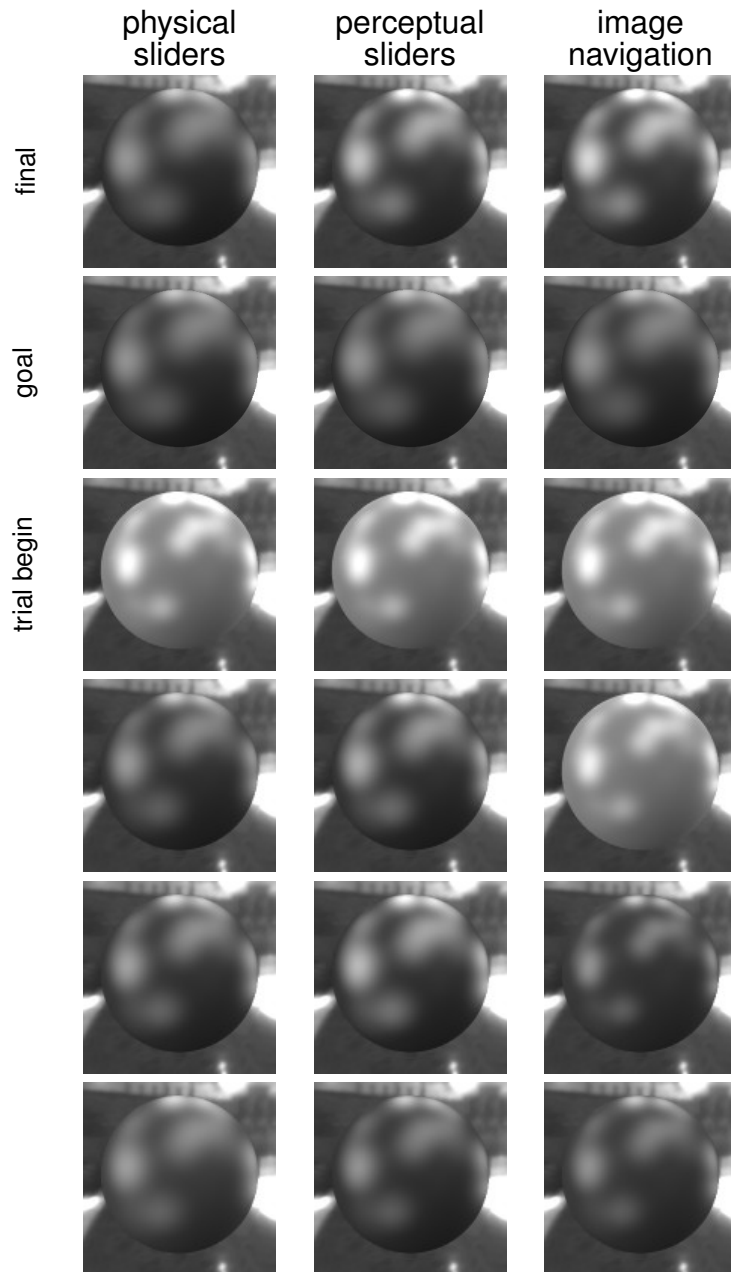
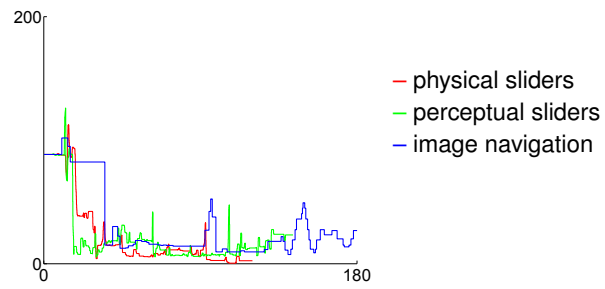
image
navigation



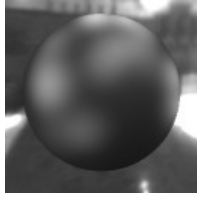
Subject 15

Trial 1

Error Over Time



physical
sliders



perceptual
sliders

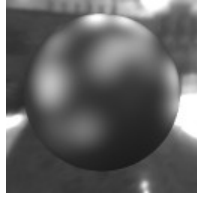
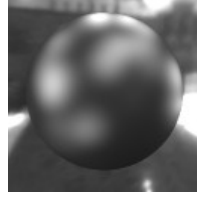
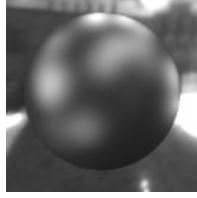
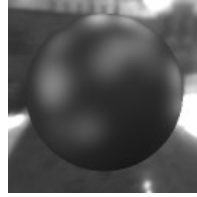
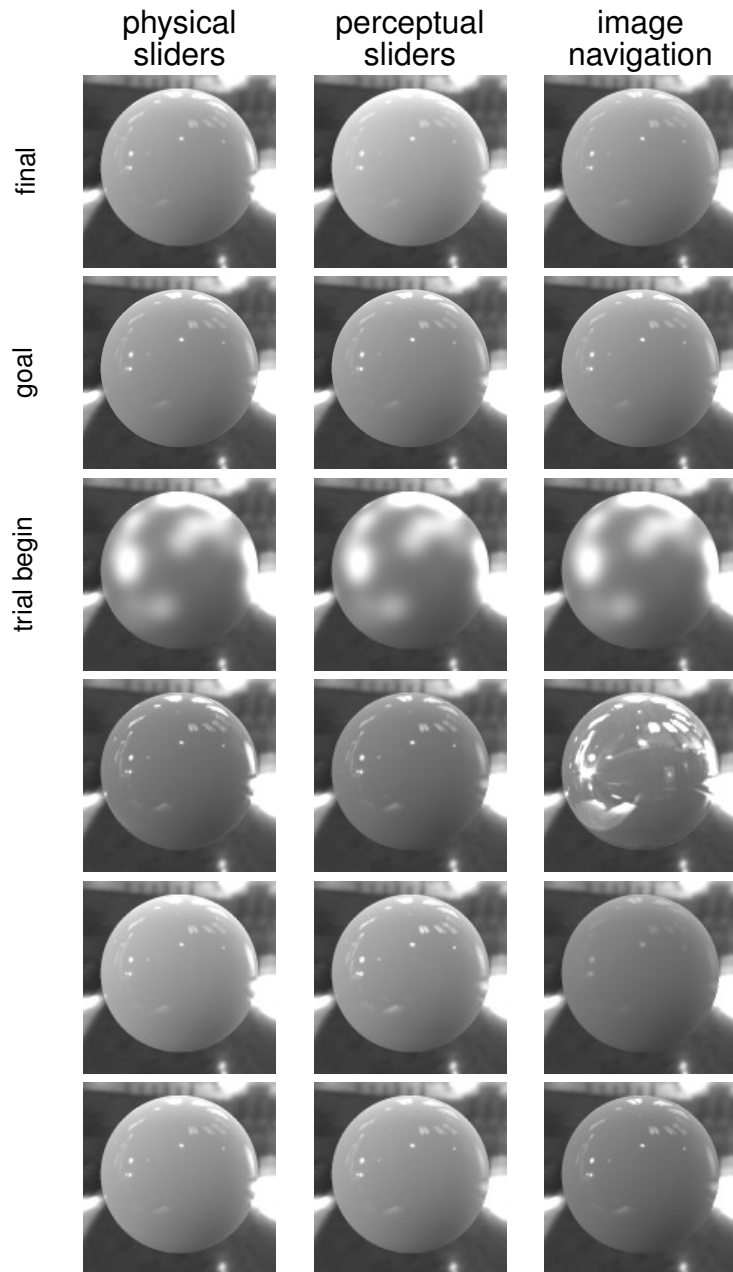
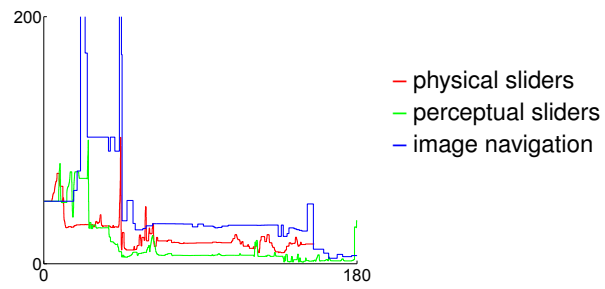


image
navigation

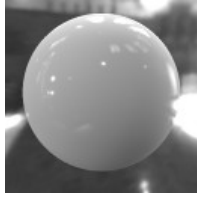


Trial 2

Error Over Time



physical
sliders



perceptual
sliders

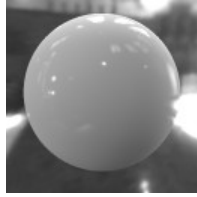
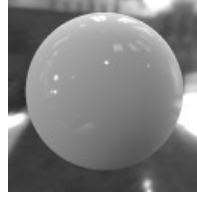
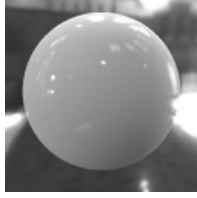
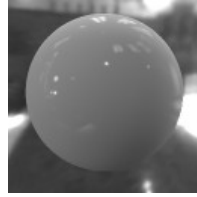
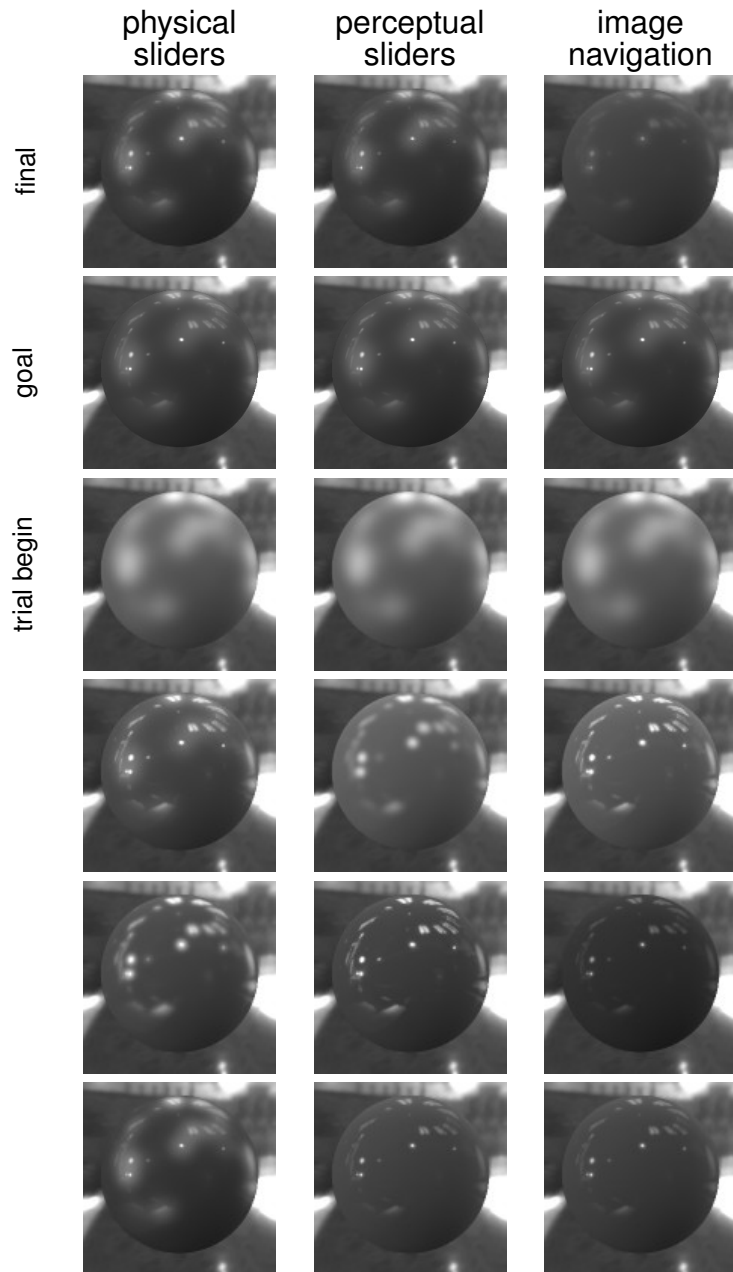
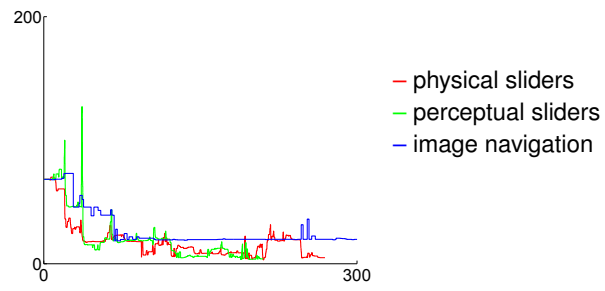


image
navigation

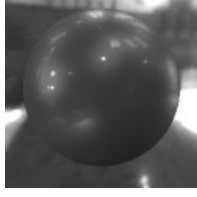
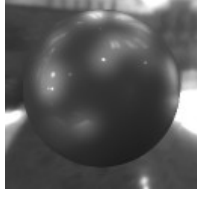
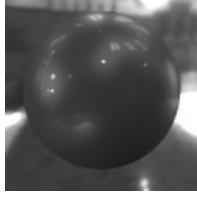
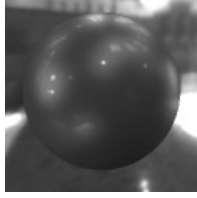
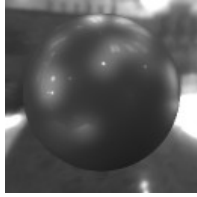


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

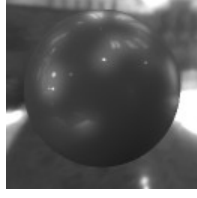
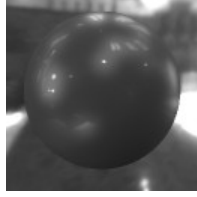
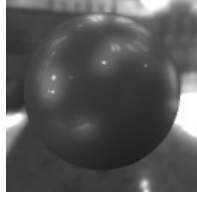
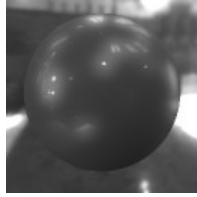
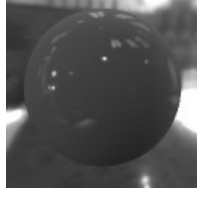
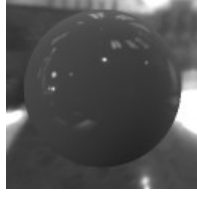
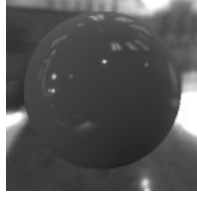
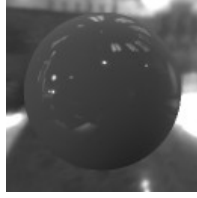
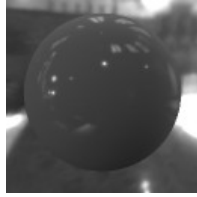
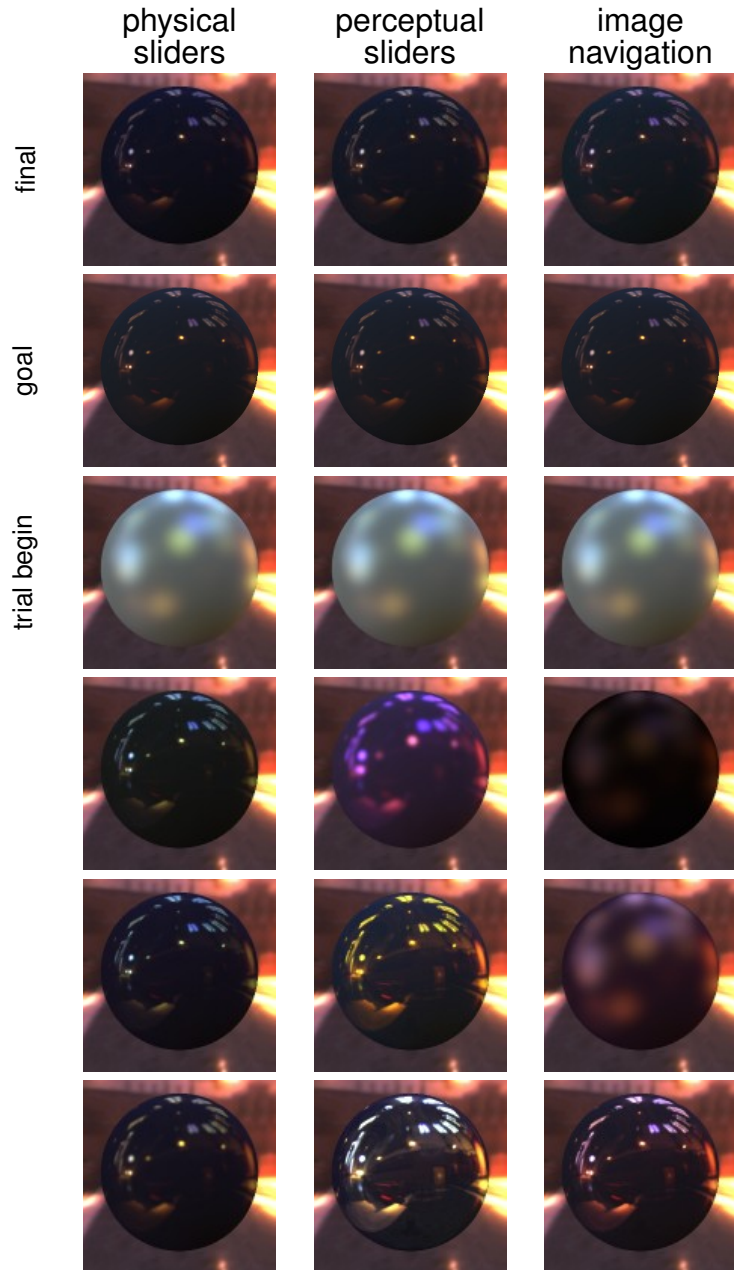
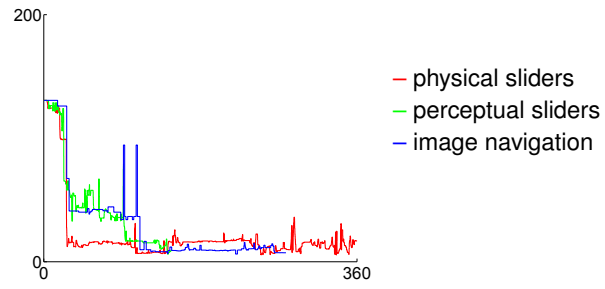


image
navigation

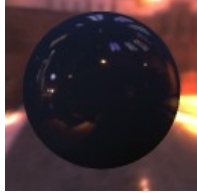
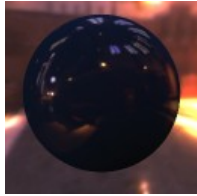
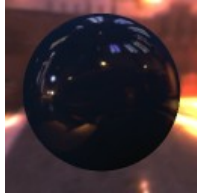
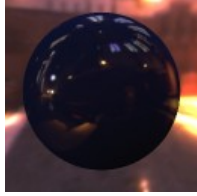
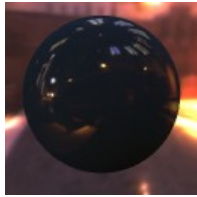


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

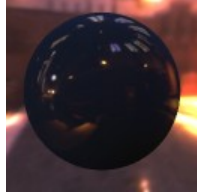
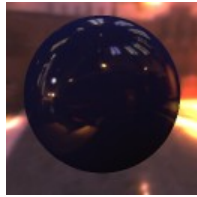
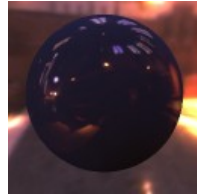
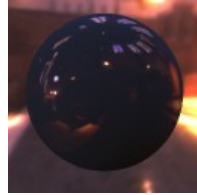
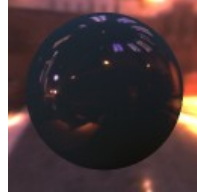
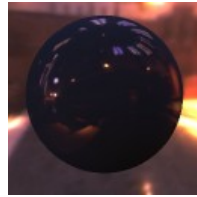
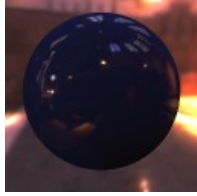
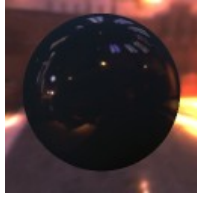


image
navigation



physical
sliders

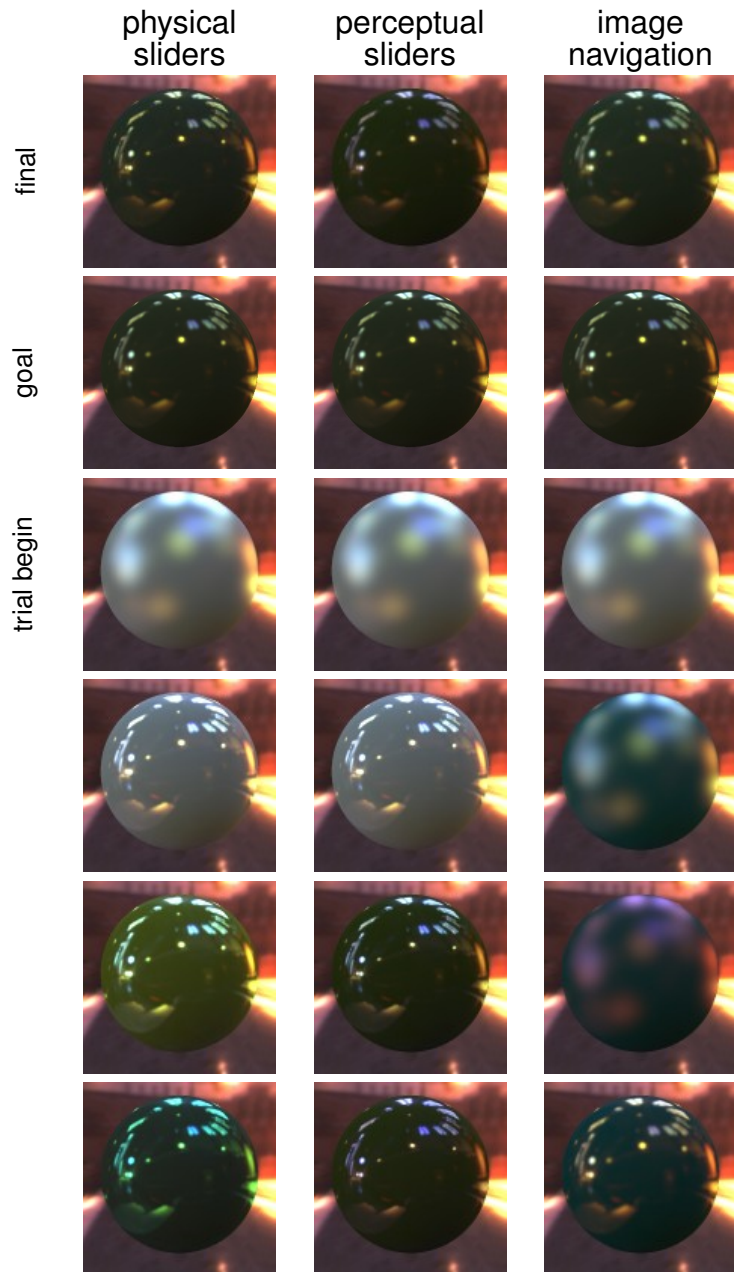
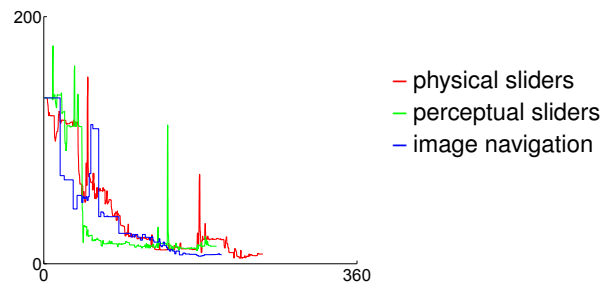


perceptual
sliders

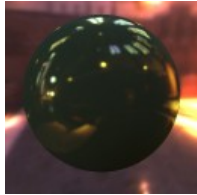
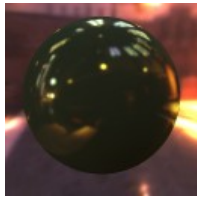
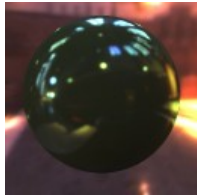
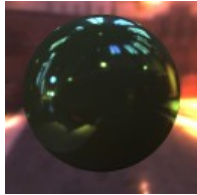
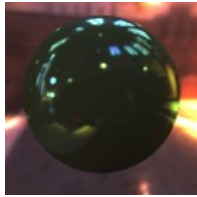
image
navigation

Trial 5

Error Over Time



physical
sliders



perceptual
sliders

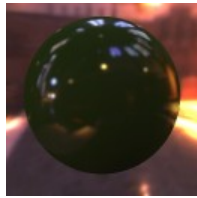
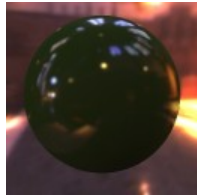
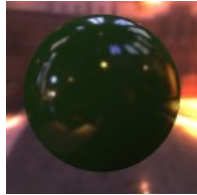
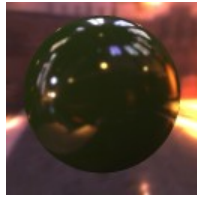
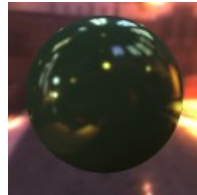
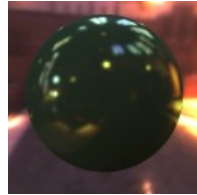
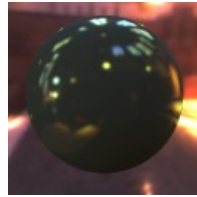
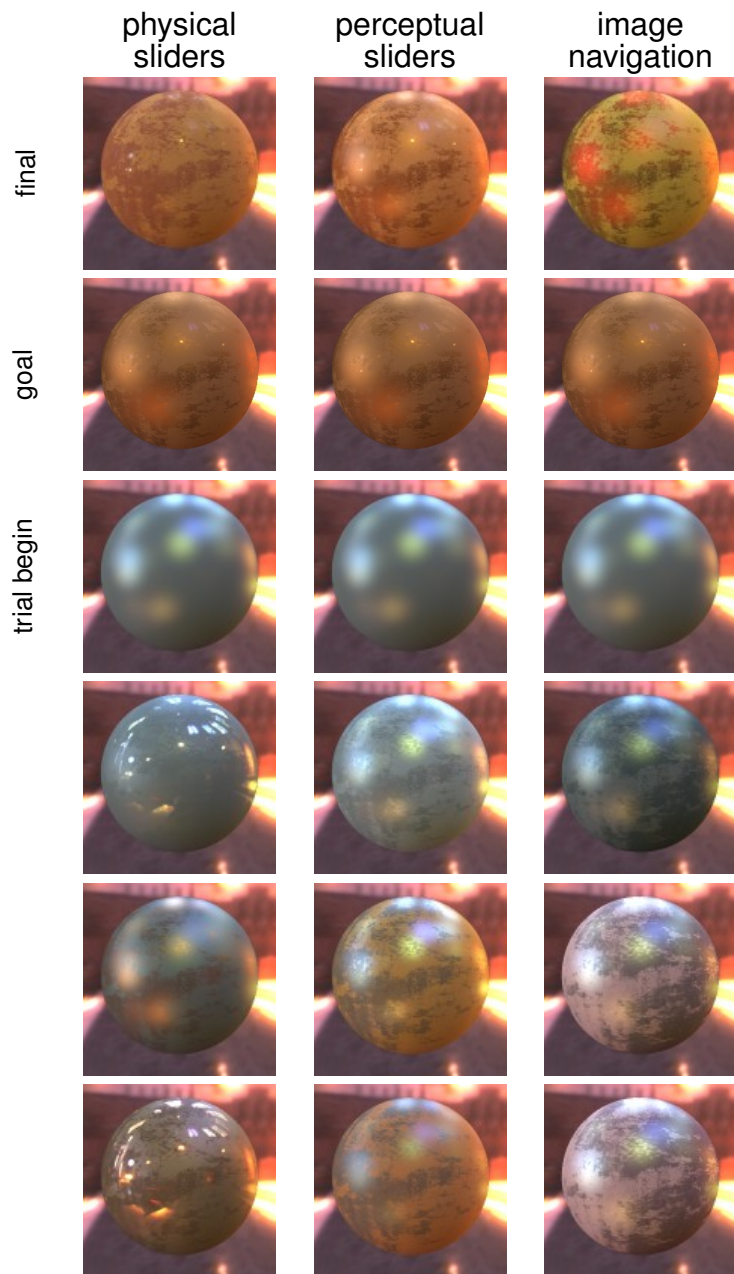
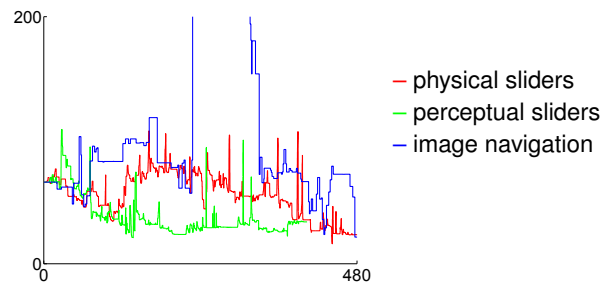


image
navigation



Trial 6

Error Over Time



physical
sliders



perceptual
sliders

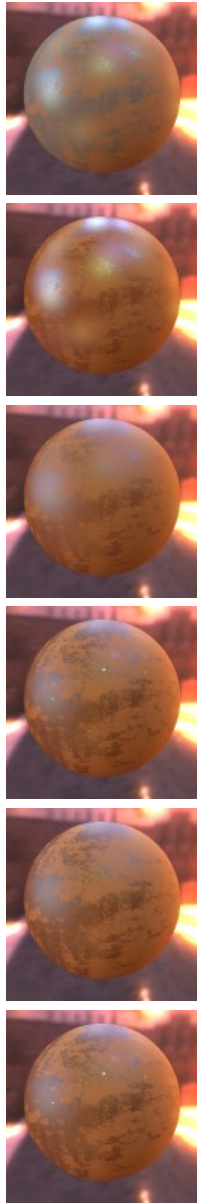
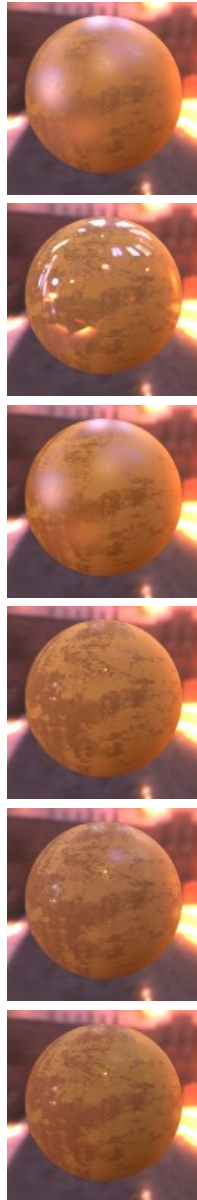


image
navigation



physical
sliders



perceptual
sliders

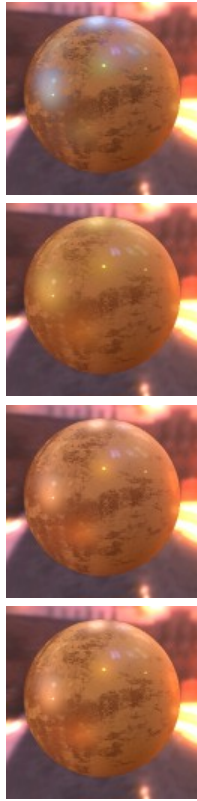
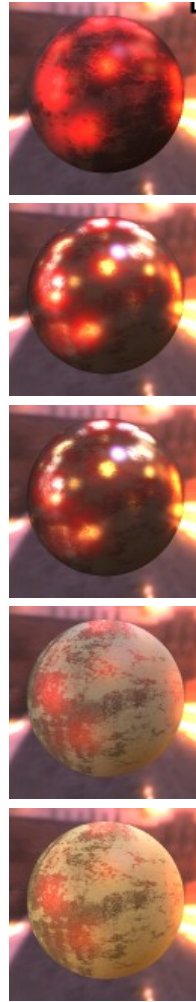
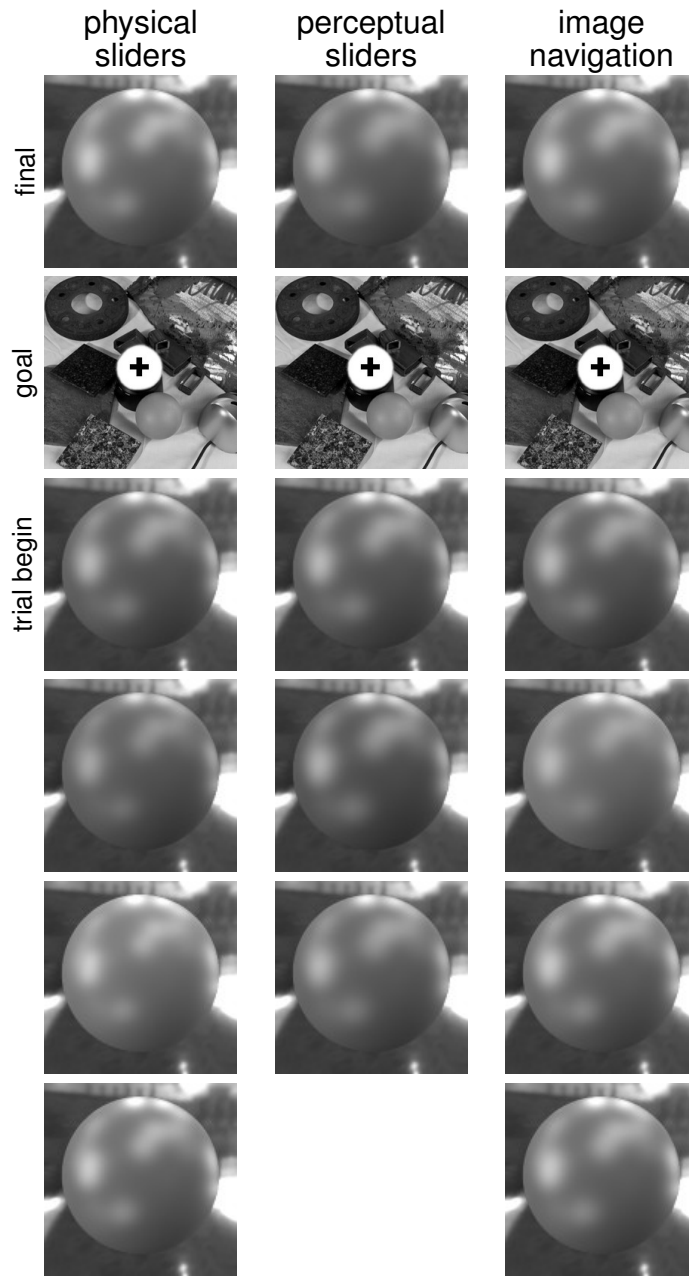


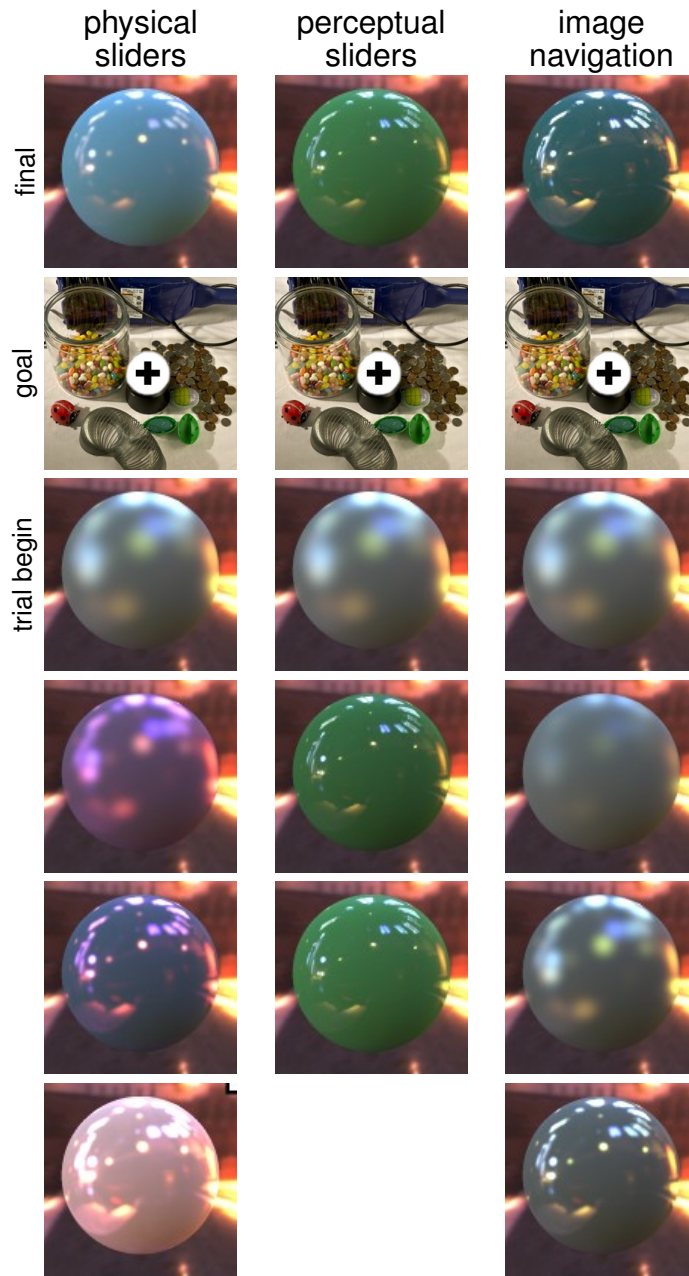
image
navigation



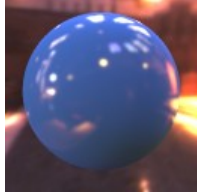
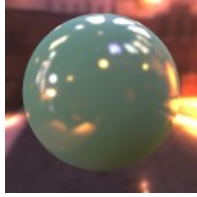
Trial 7



Trial 8

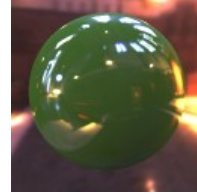
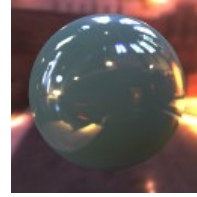


physical
sliders



perceptual
sliders

image
navigation



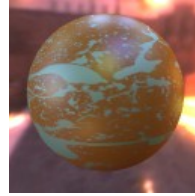
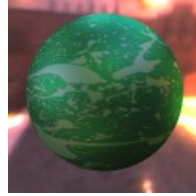
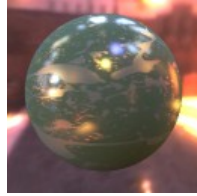
Trial 9

physical
sliders

perceptual
sliders

image
navigation

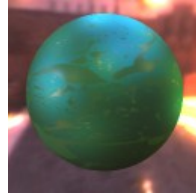
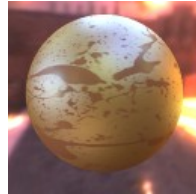
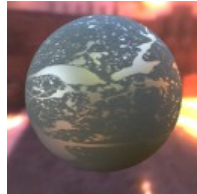
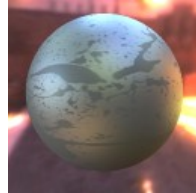
final



goal



trial
begin



physical
sliders



perceptual
sliders

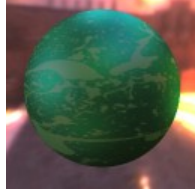
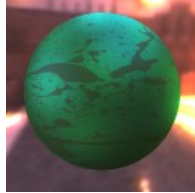
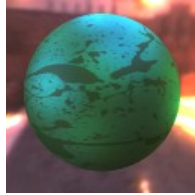


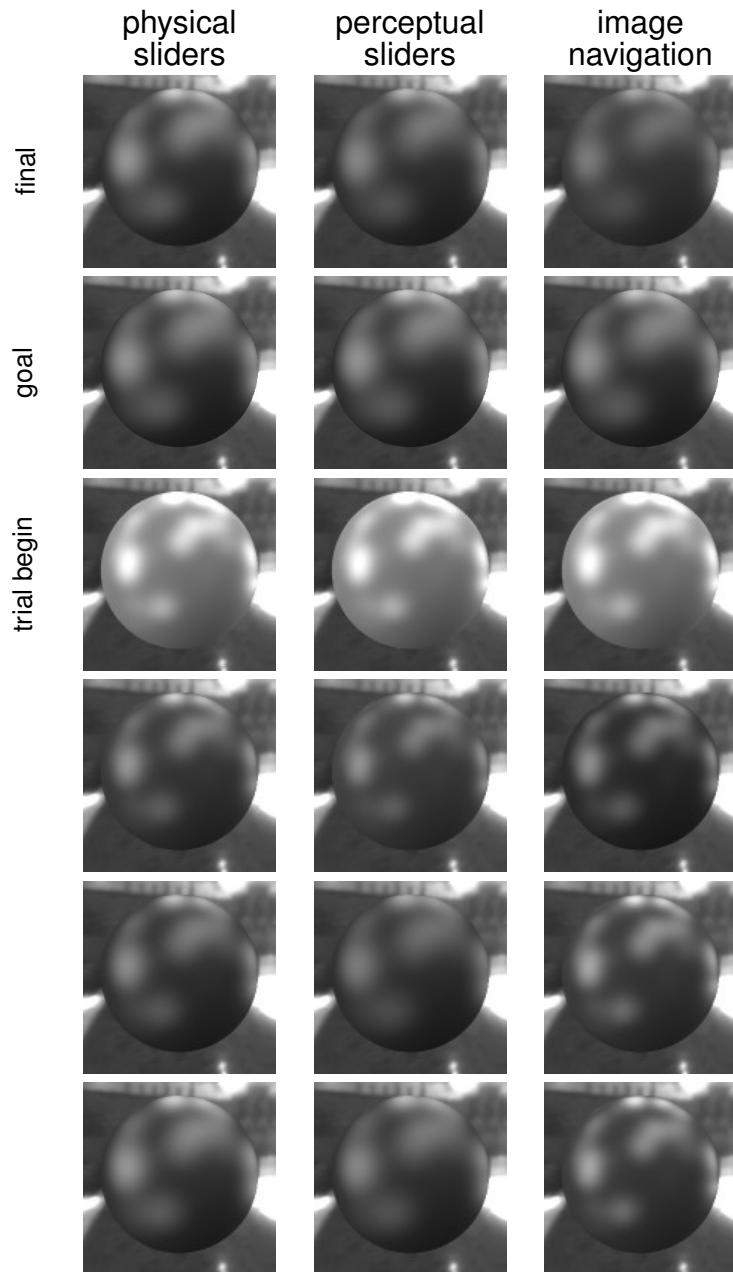
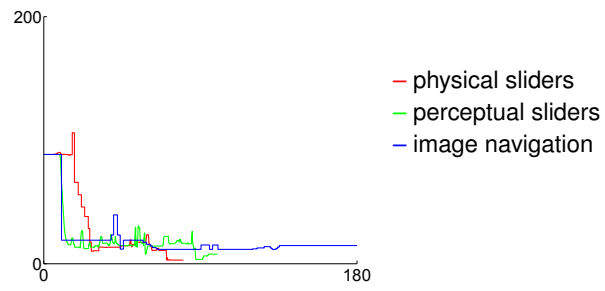
image
navigation



Subject 16

Trial 1

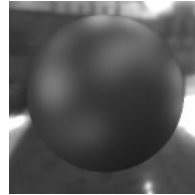
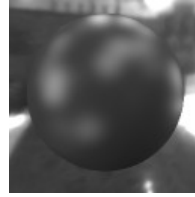
Error Over Time



physical
sliders

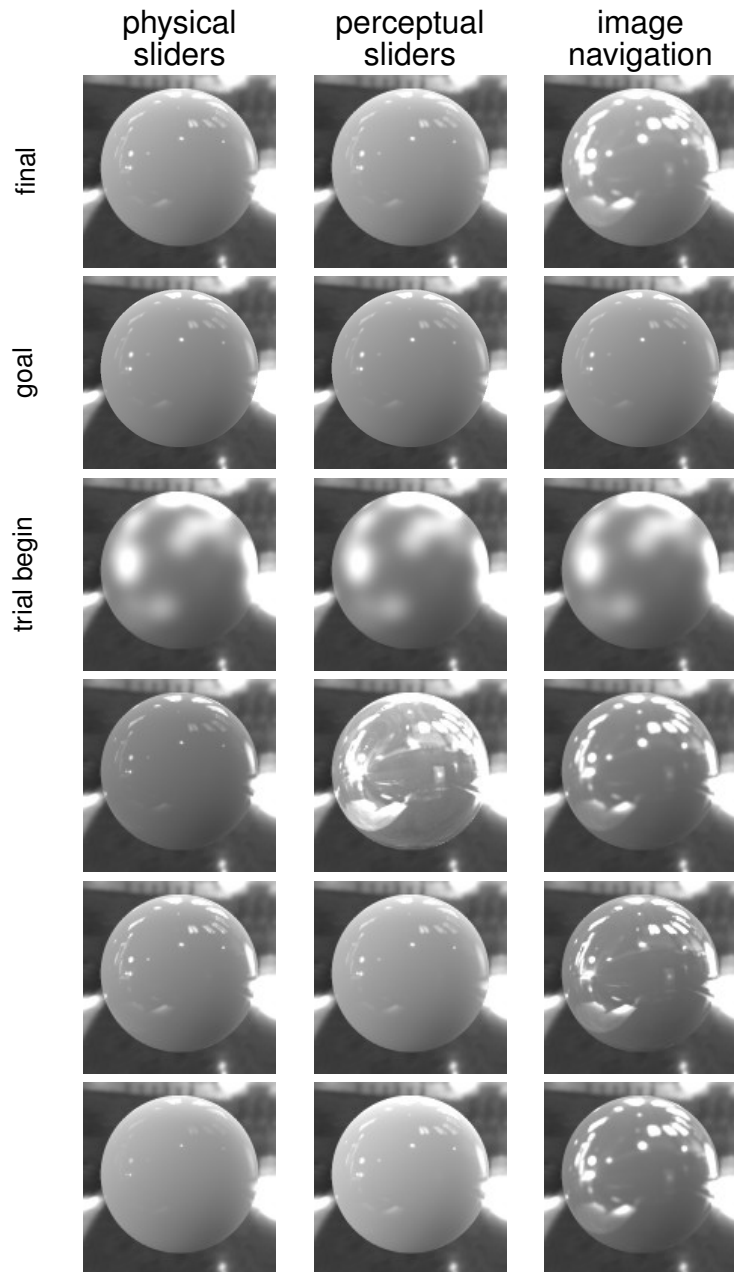
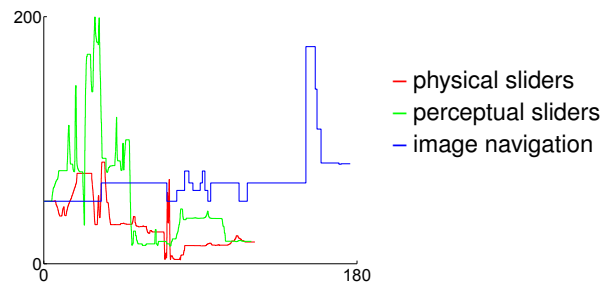
perceptual
sliders

image
navigation

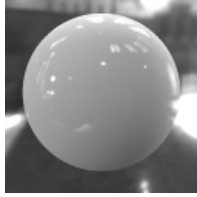


Trial 2

Error Over Time



physical
sliders



perceptual
sliders

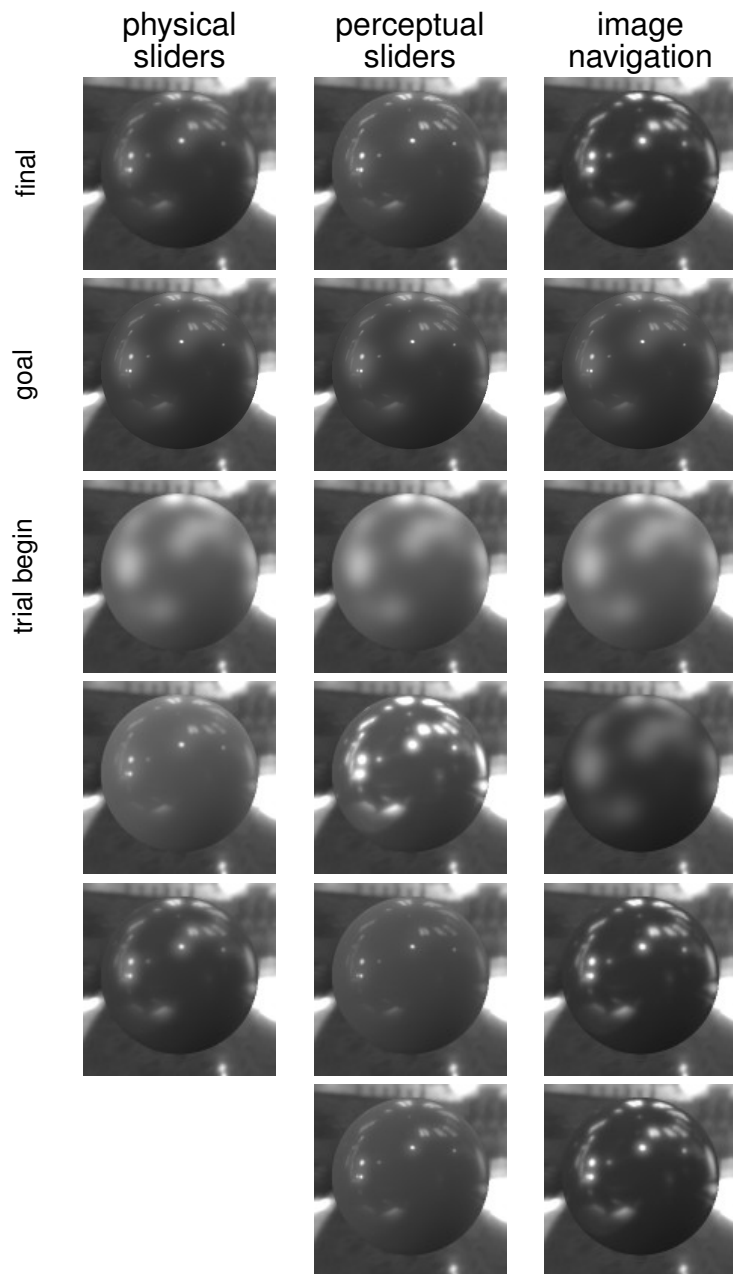
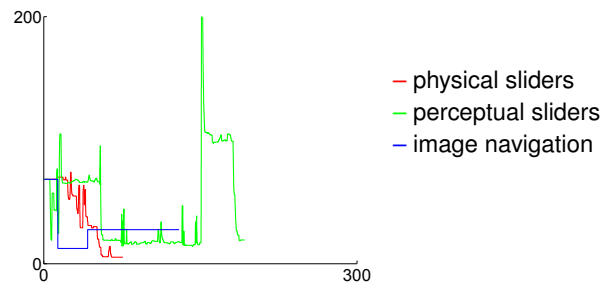


image
navigation



Trial 3

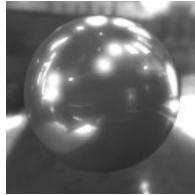
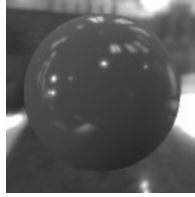
Error Over Time



physical
sliders

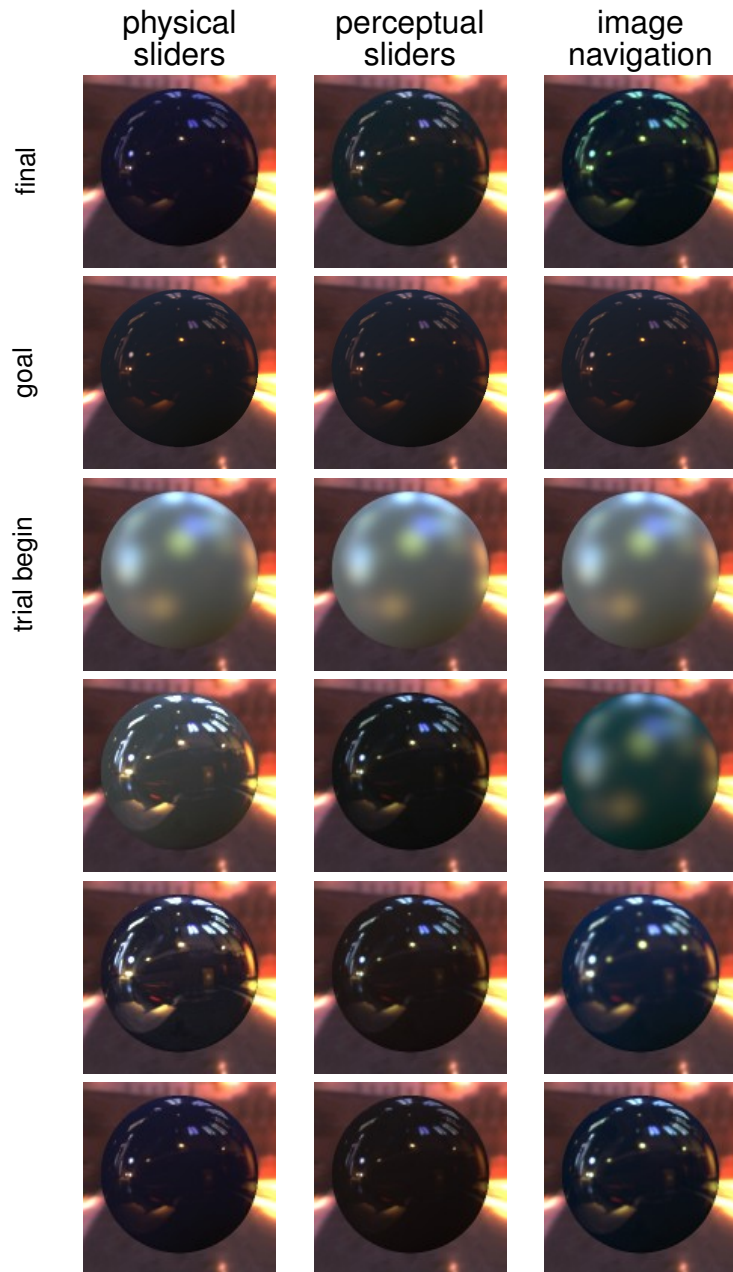
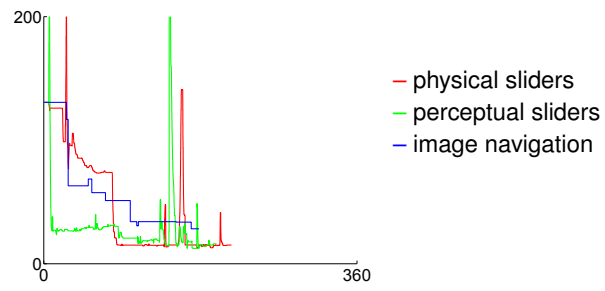
perceptual
sliders

image
navigation

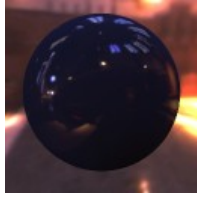


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

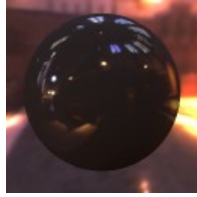
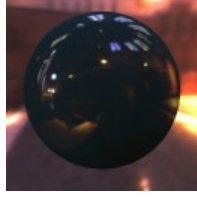
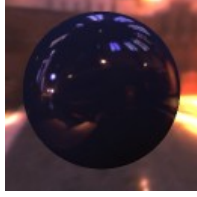
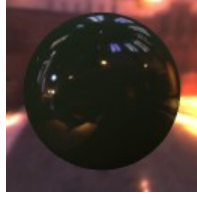
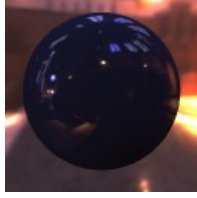
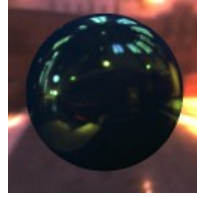
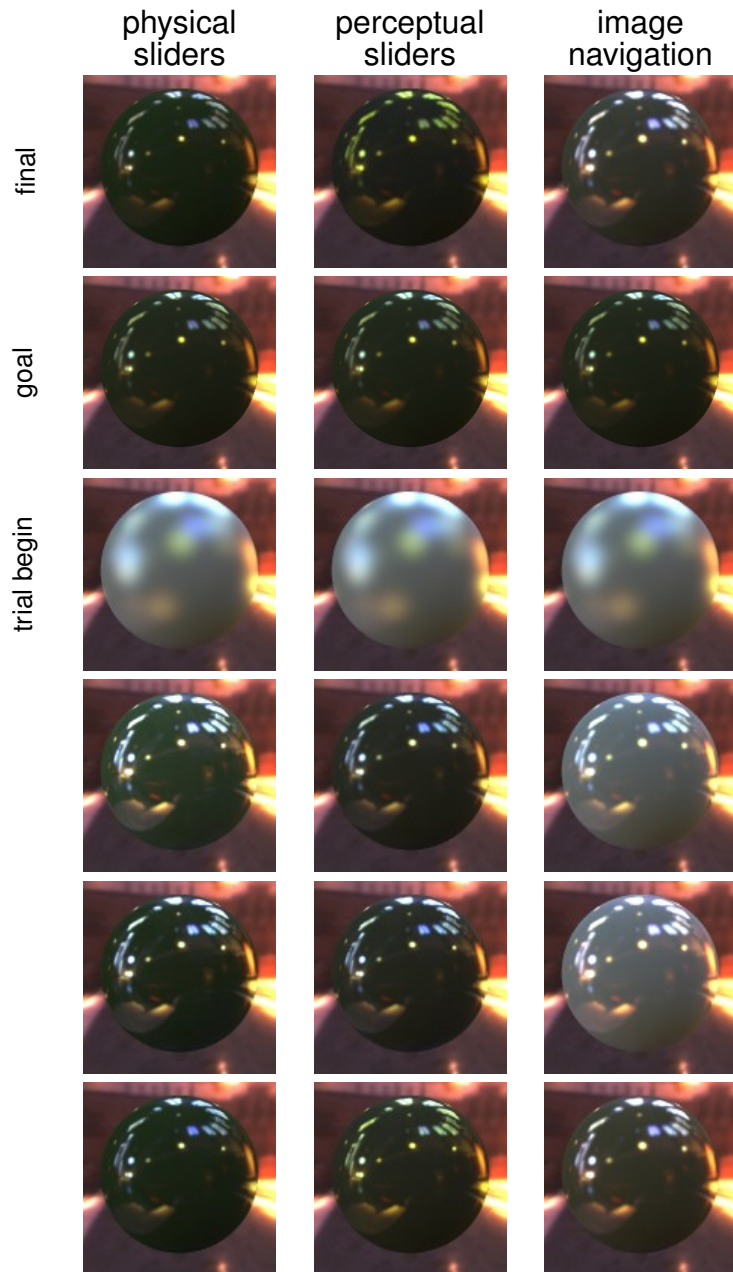
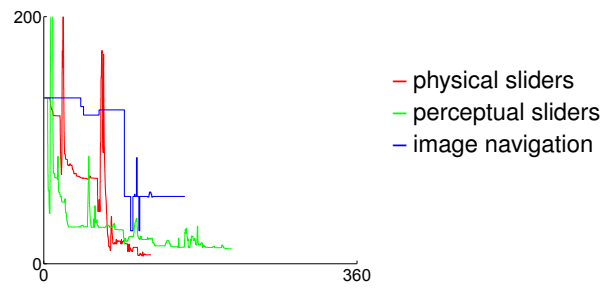


image
navigation

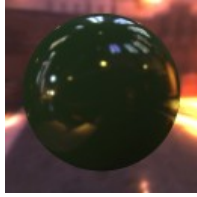


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

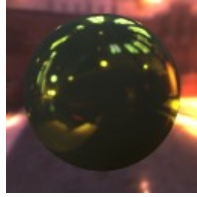
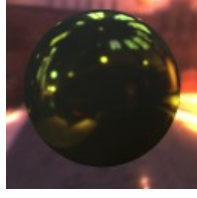
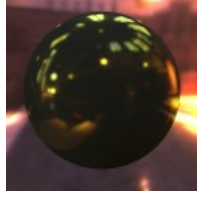
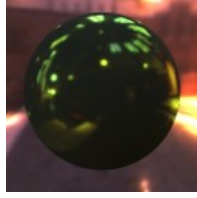
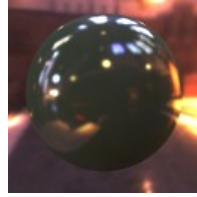
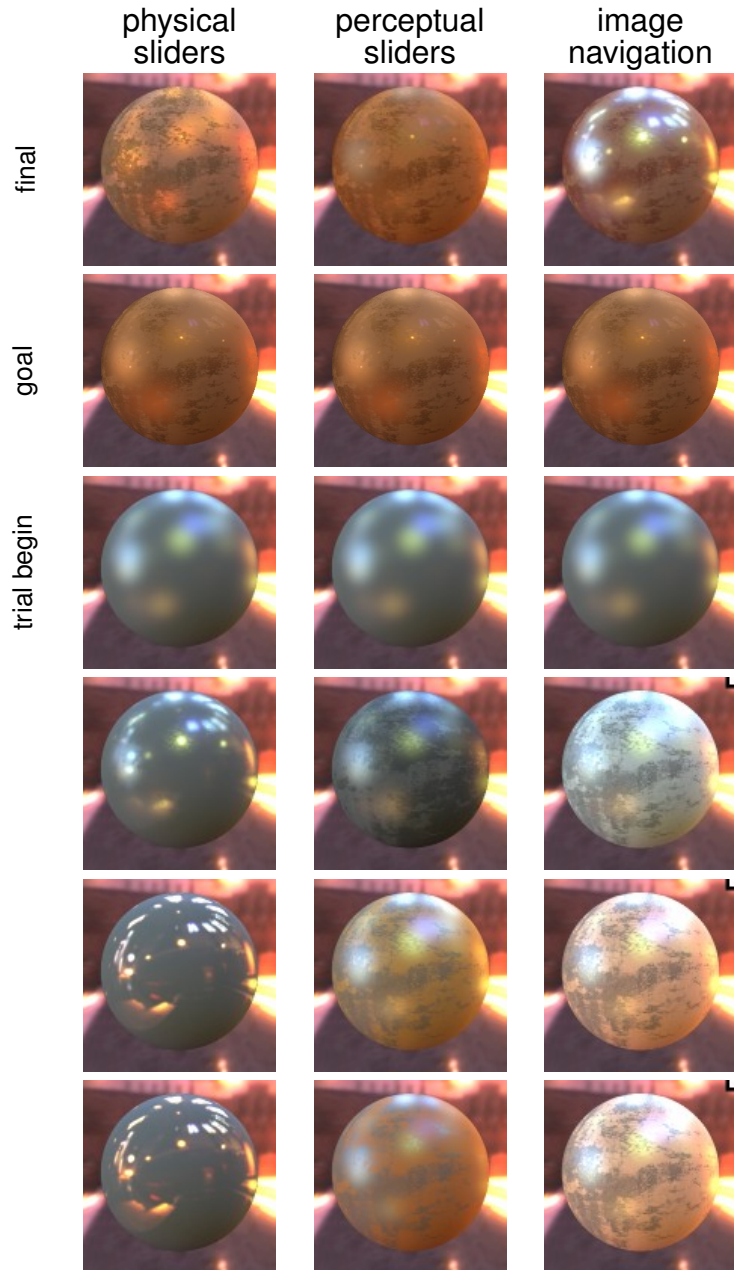
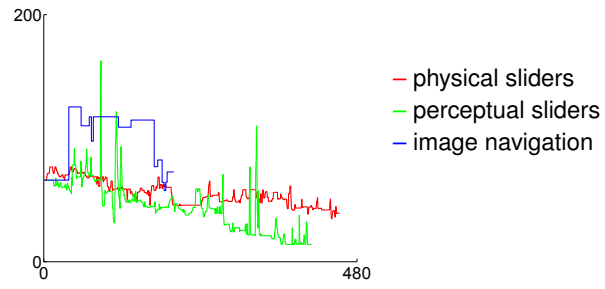


image
navigation

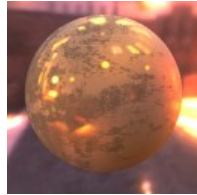
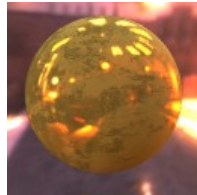
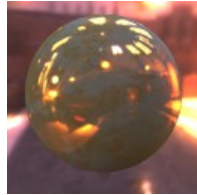
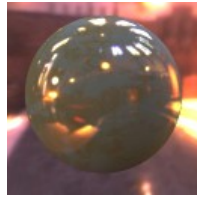


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

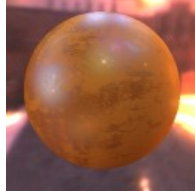
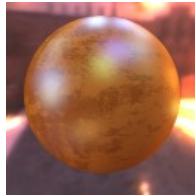
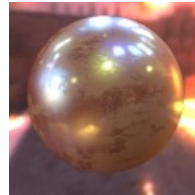


image
navigation



physical
sliders



perceptual
sliders

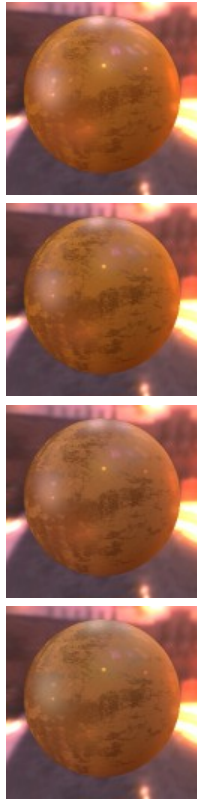
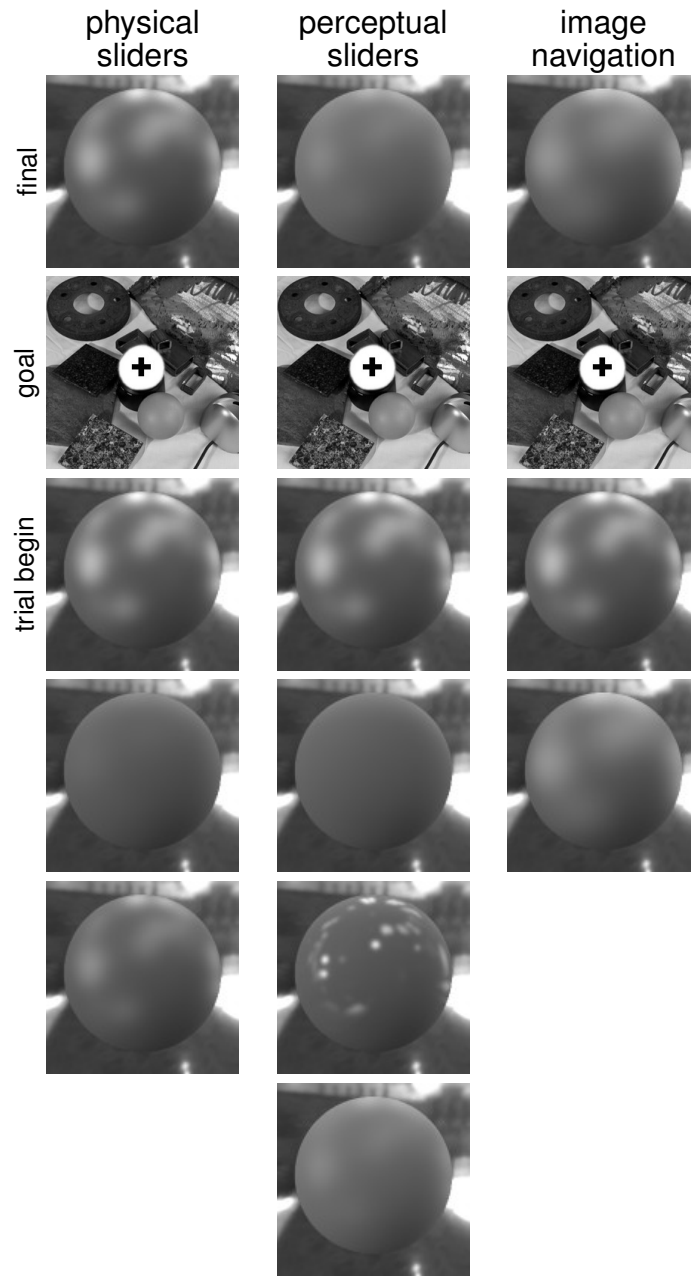
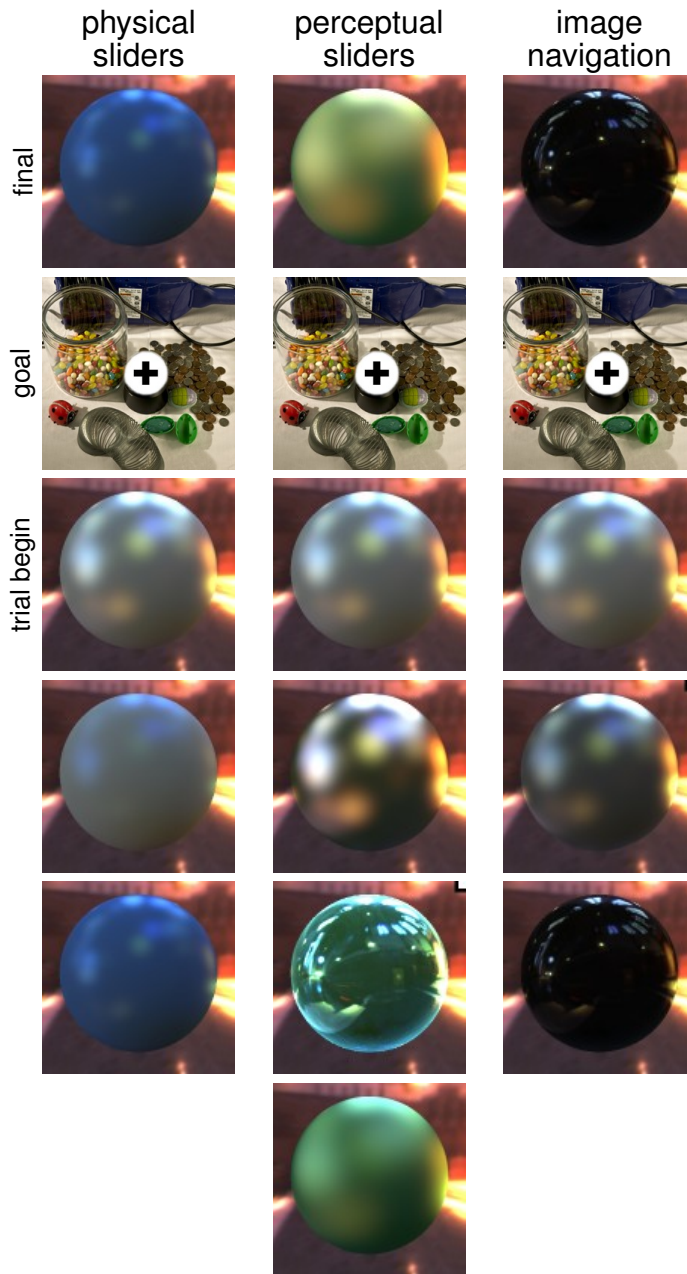


image
navigation

Trial 7



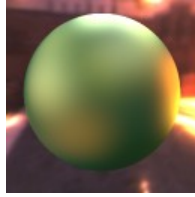
Trial 8



physical
sliders

perceptual
sliders

image
navigation



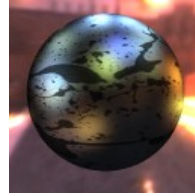
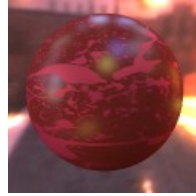
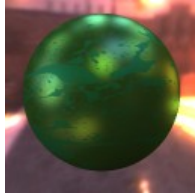
Trial 9

physical
sliders

perceptual
sliders

image
navigation

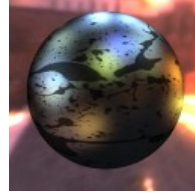
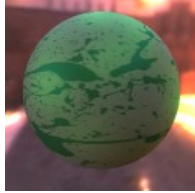
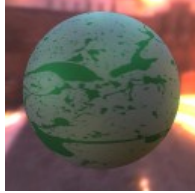
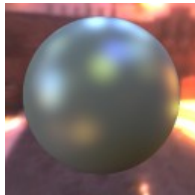
final



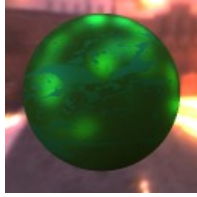
goal



trial
begin



physical
sliders



perceptual
sliders

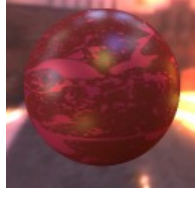
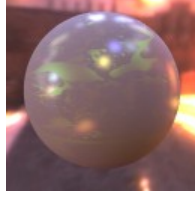
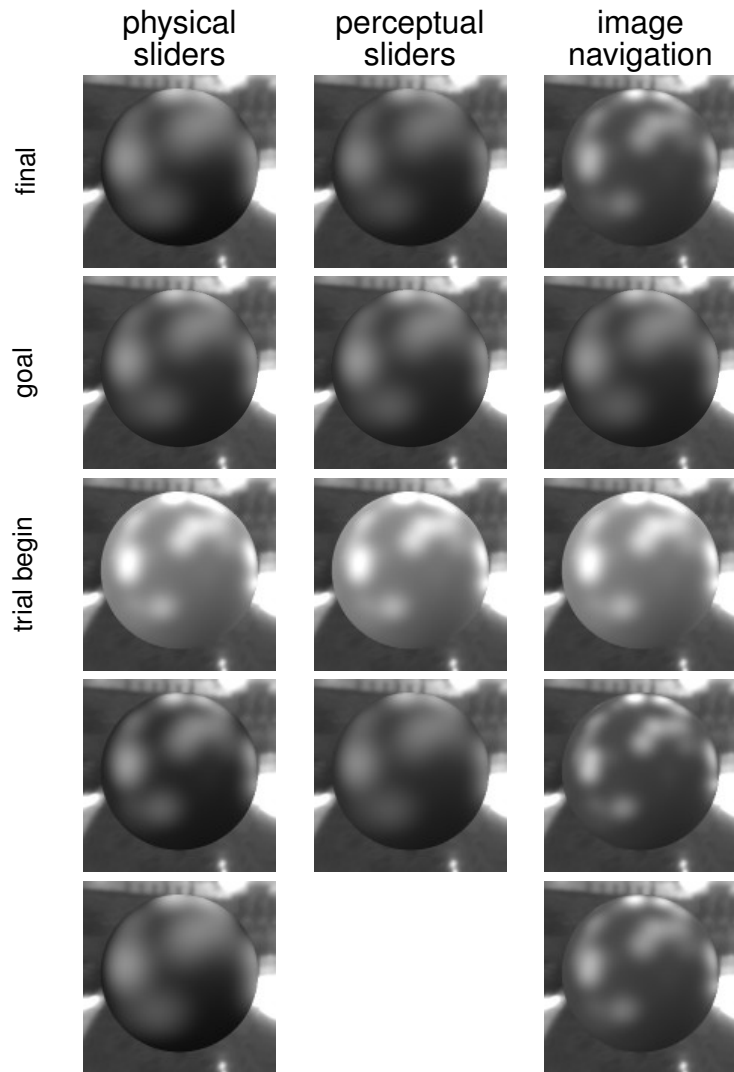
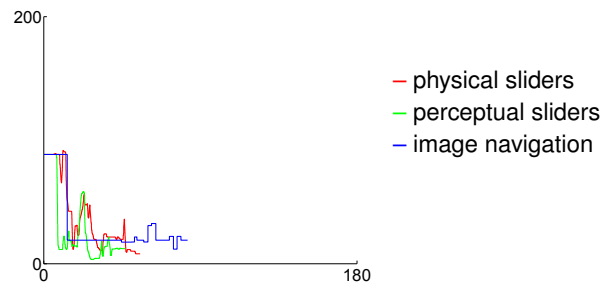


image
navigation

Subject 17

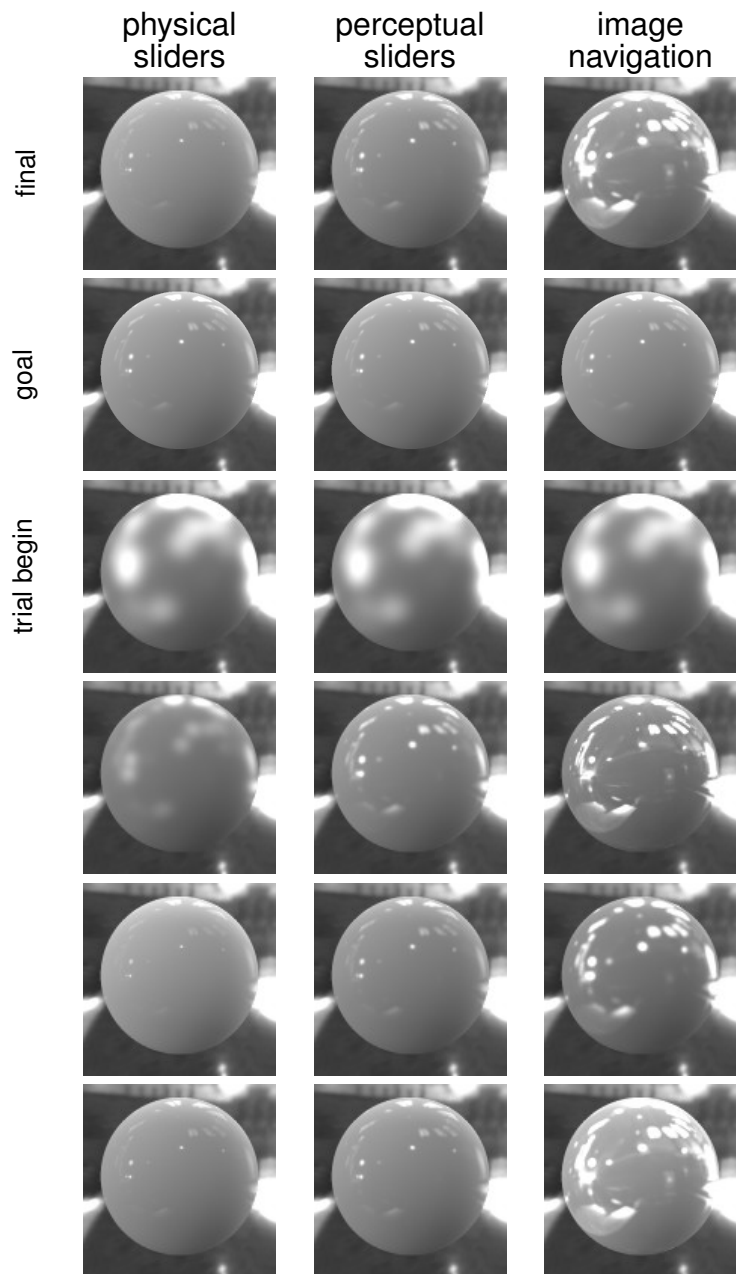
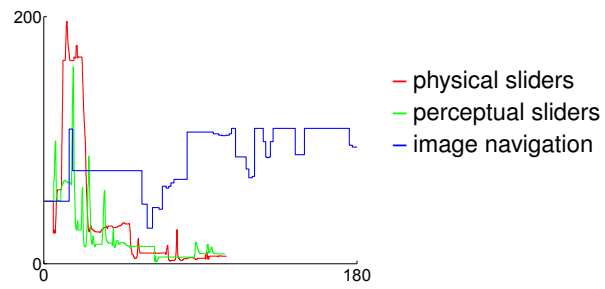
Trial 1

Error Over Time



Trial 2

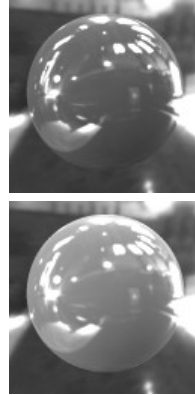
Error Over Time



physical
sliders

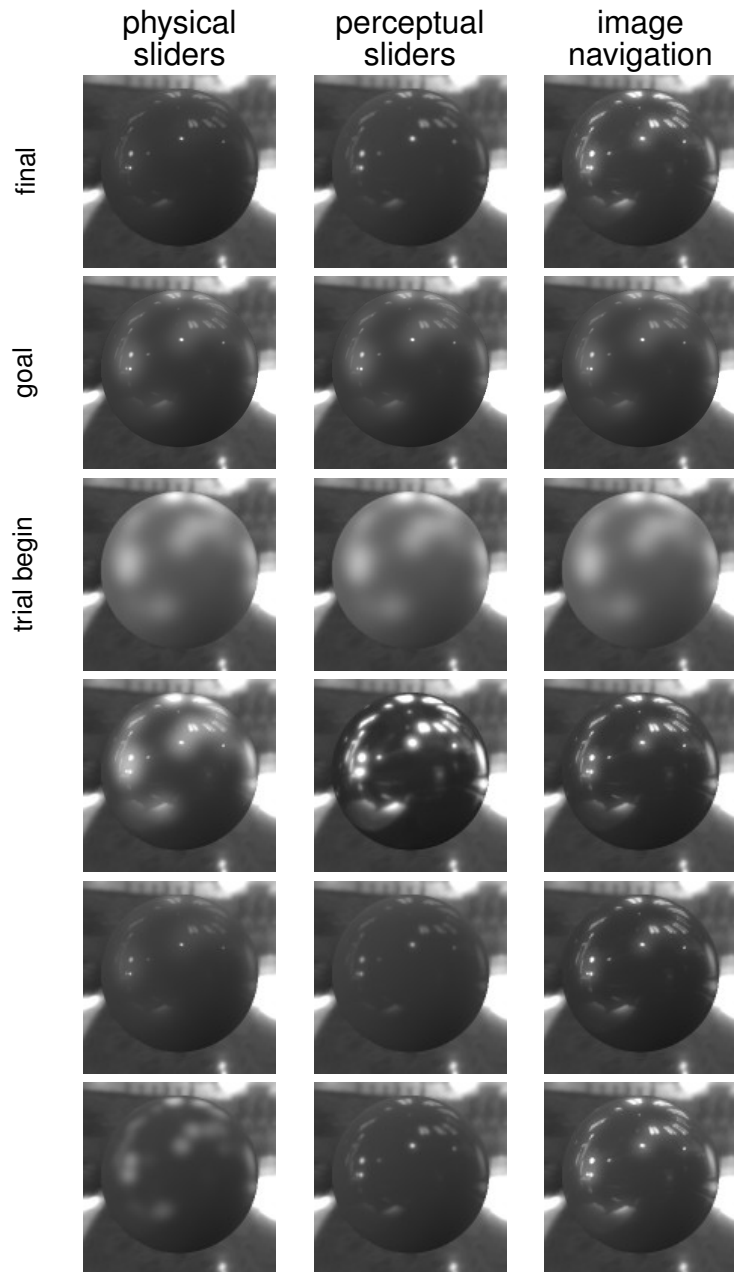
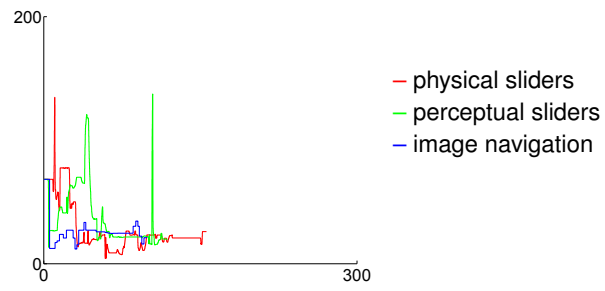
perceptual
sliders

image
navigation

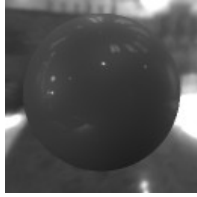


Trial 3

Error Over Time



physical
sliders



perceptual
sliders

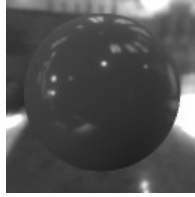
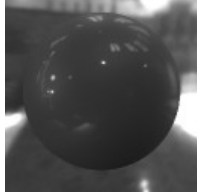
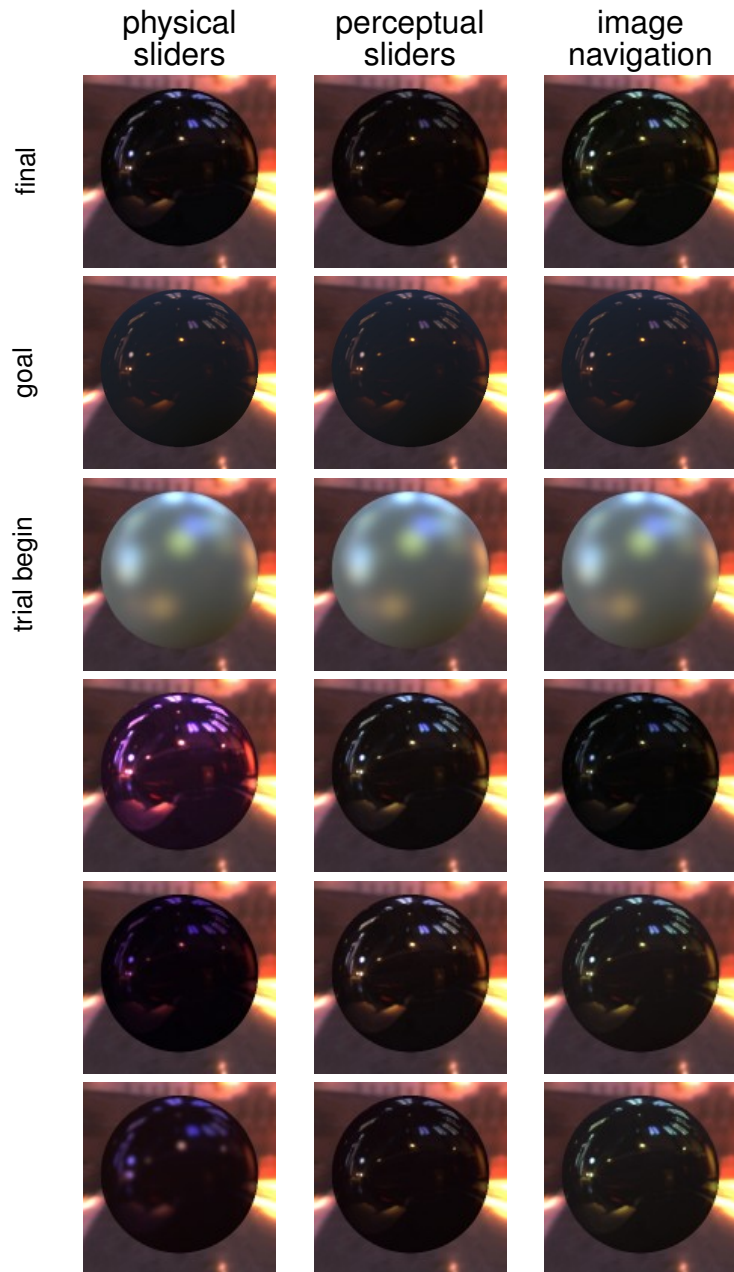
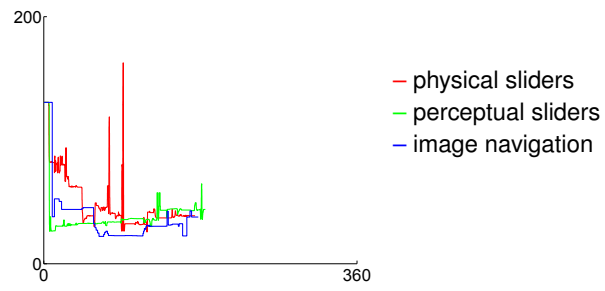


image
navigation

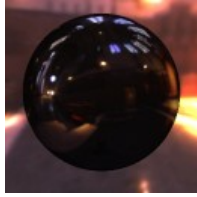


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

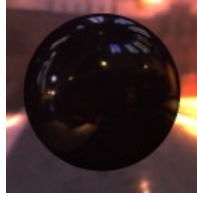
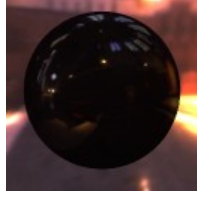
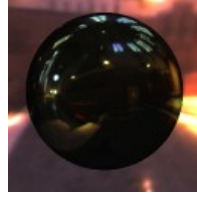
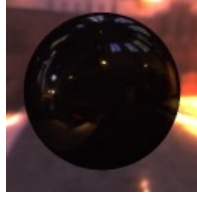
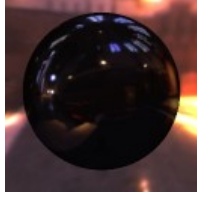
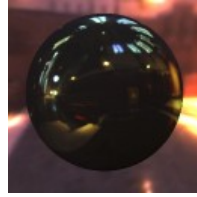
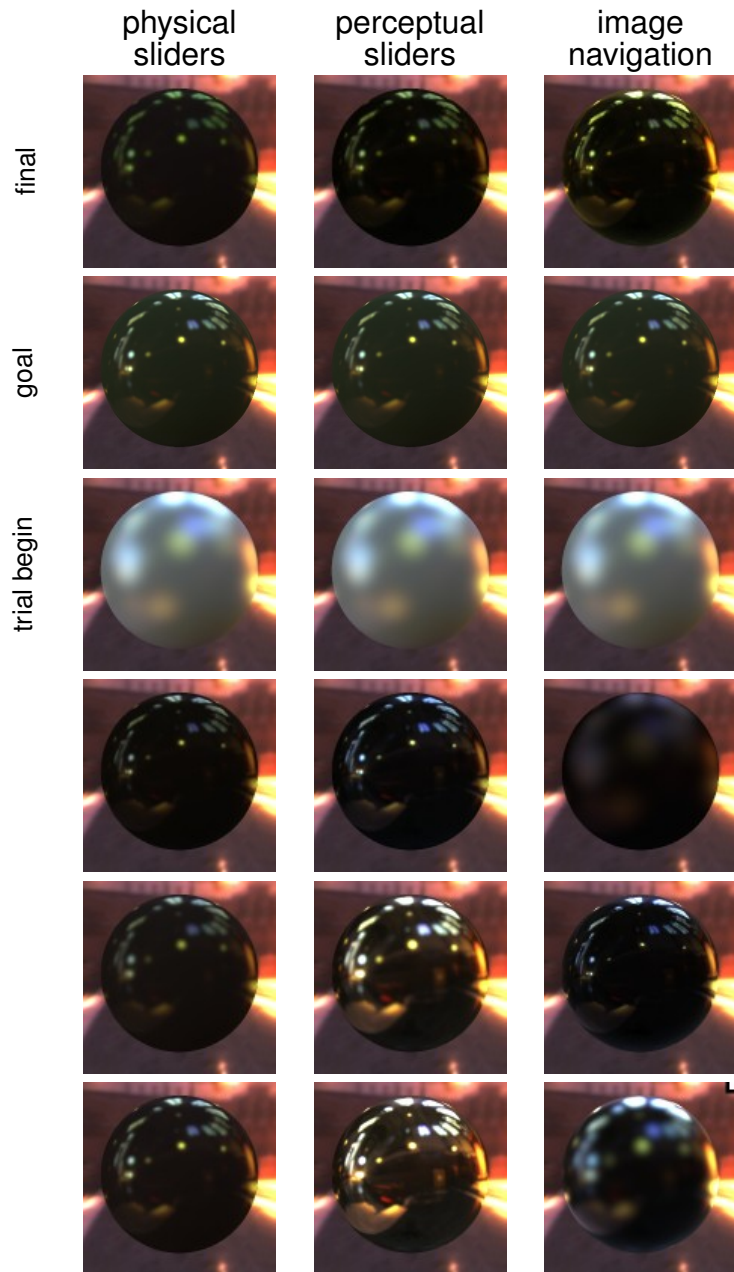
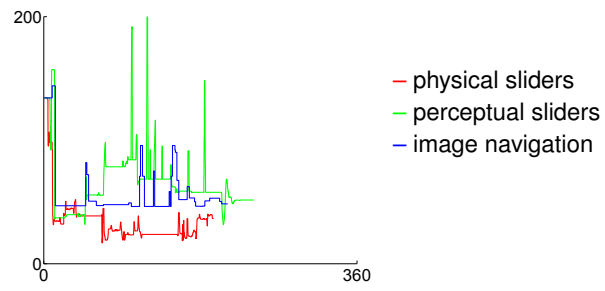


image
navigation

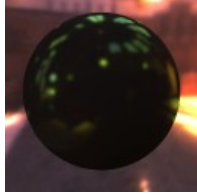
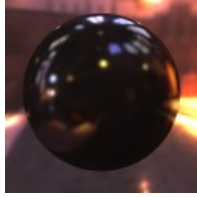


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

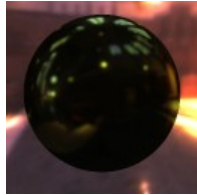
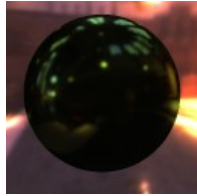
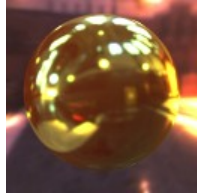
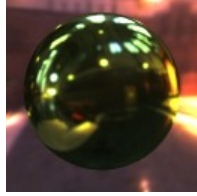
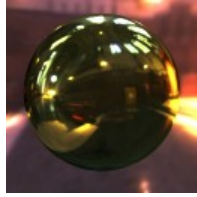
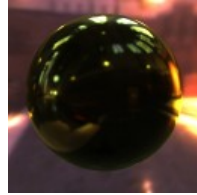
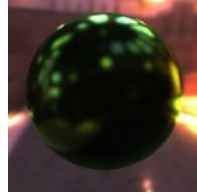
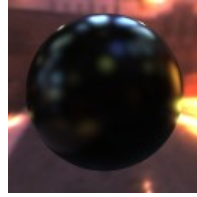
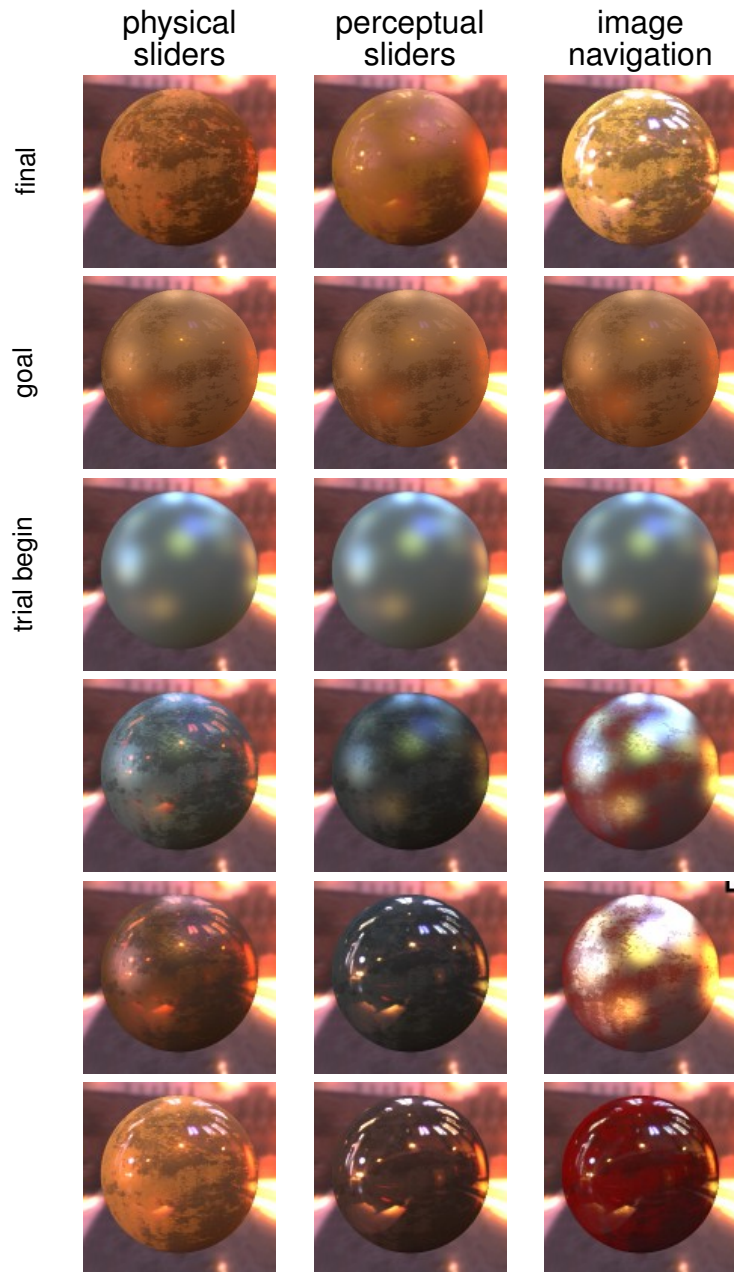
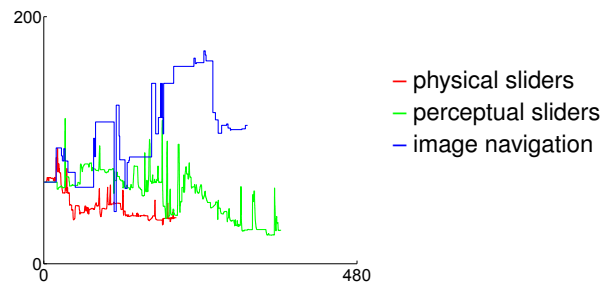


image
navigation



Trial 6

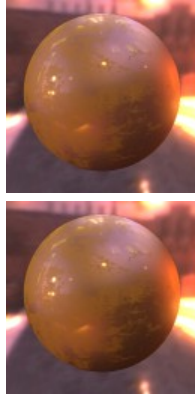
Error Over Time



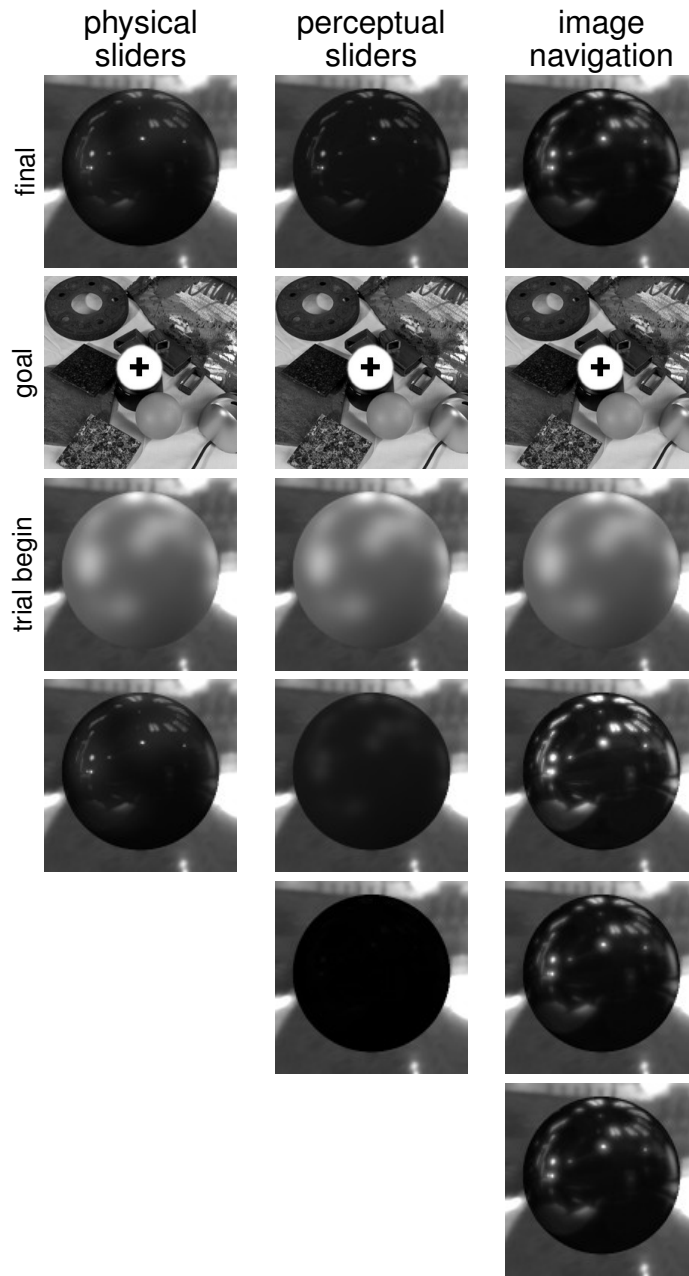
physical
sliders

perceptual
sliders

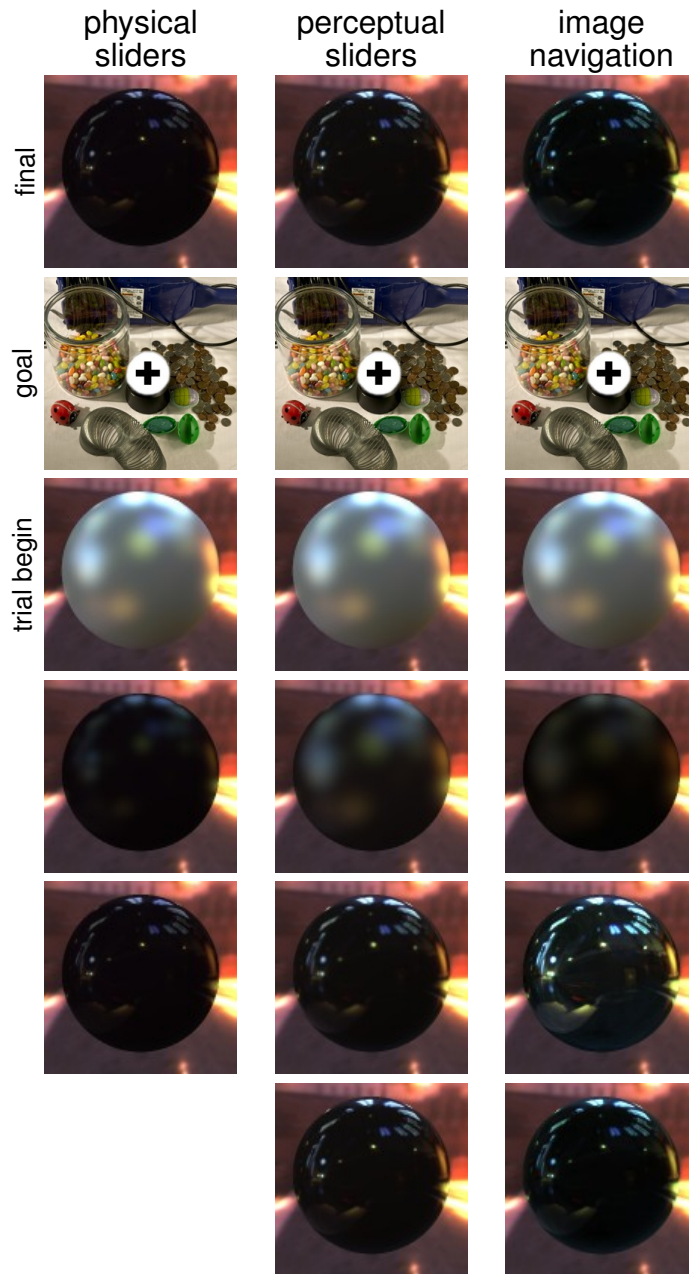
image
navigation



Trial 7



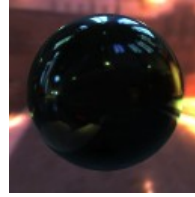
Trial 8



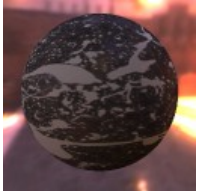
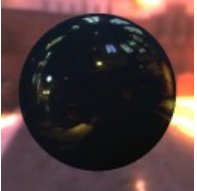







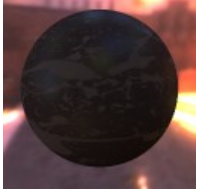



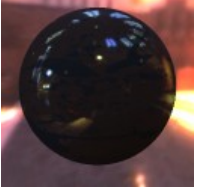
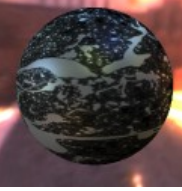
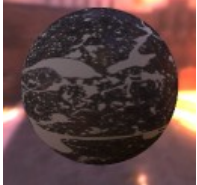

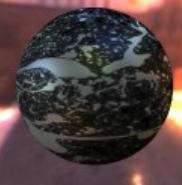



physical
sliders

perceptual
sliders

image
navigation



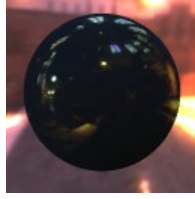
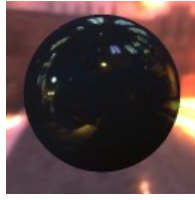
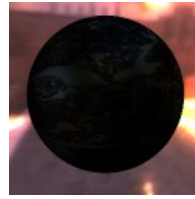
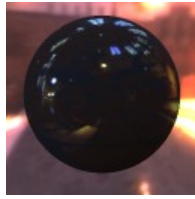
Trial 9

	physical sliders	perceptual sliders	image navigation
final			
goal			
trial begin			
			
			
			
			

physical
sliders

perceptual
sliders

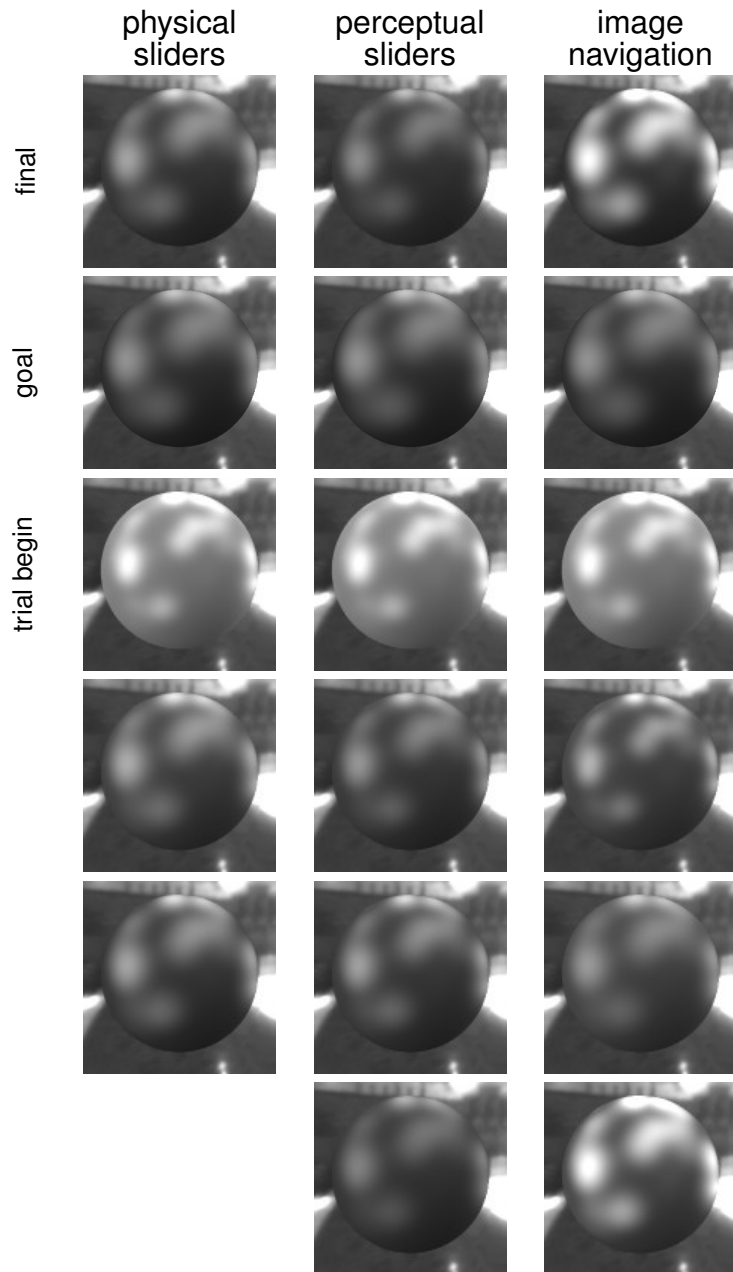
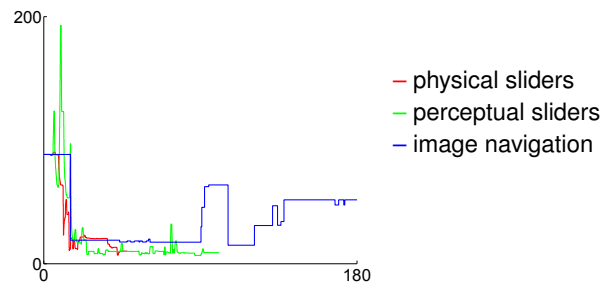
image
navigation



Subject 18

Trial 1

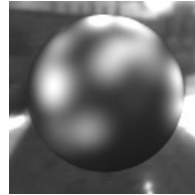
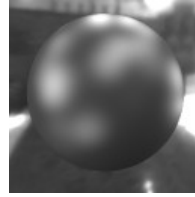
Error Over Time



physical
sliders

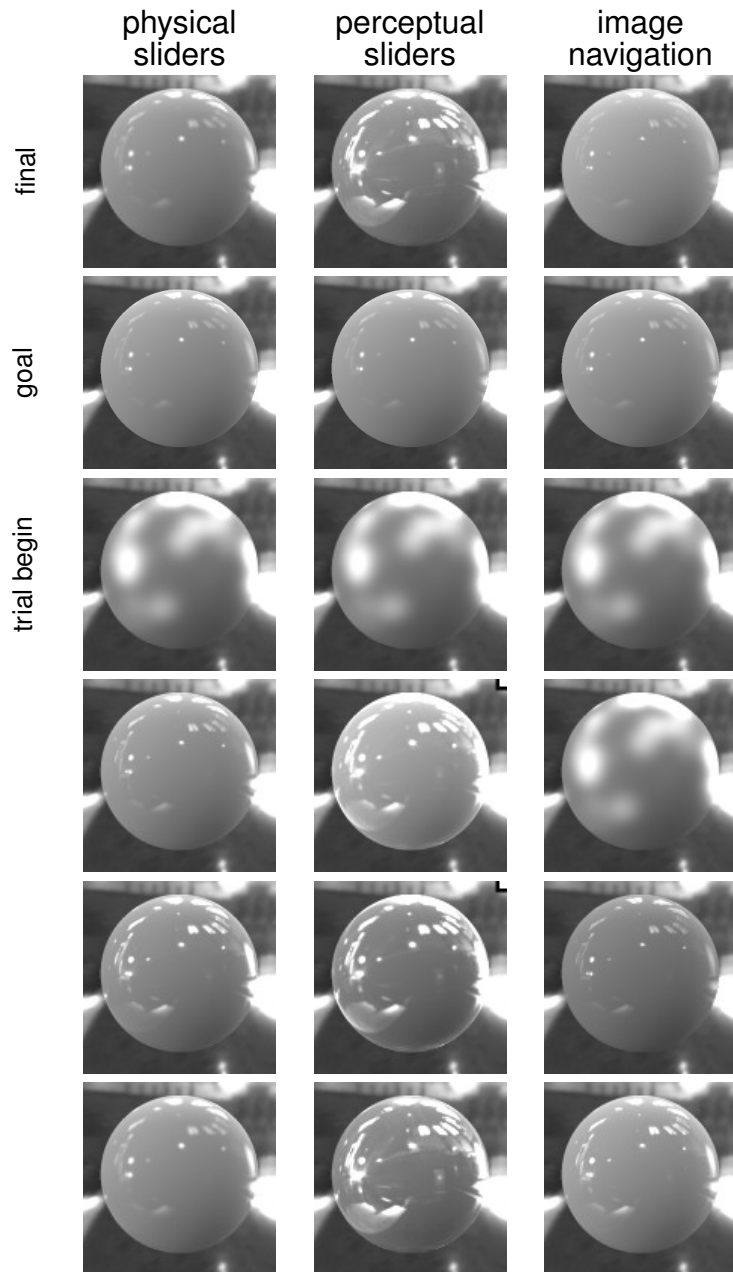
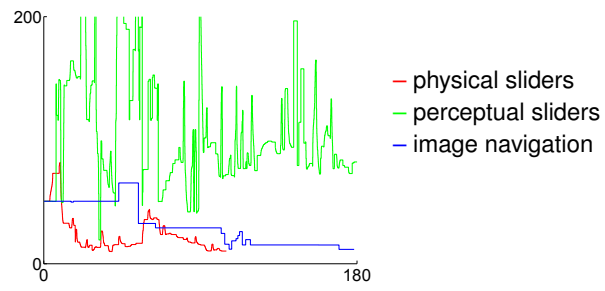
perceptual
sliders

image
navigation



Trial 2

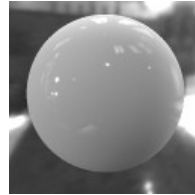
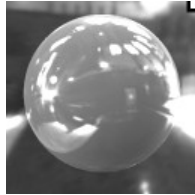
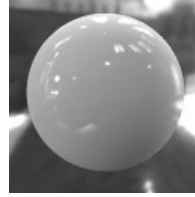
Error Over Time



physical
sliders

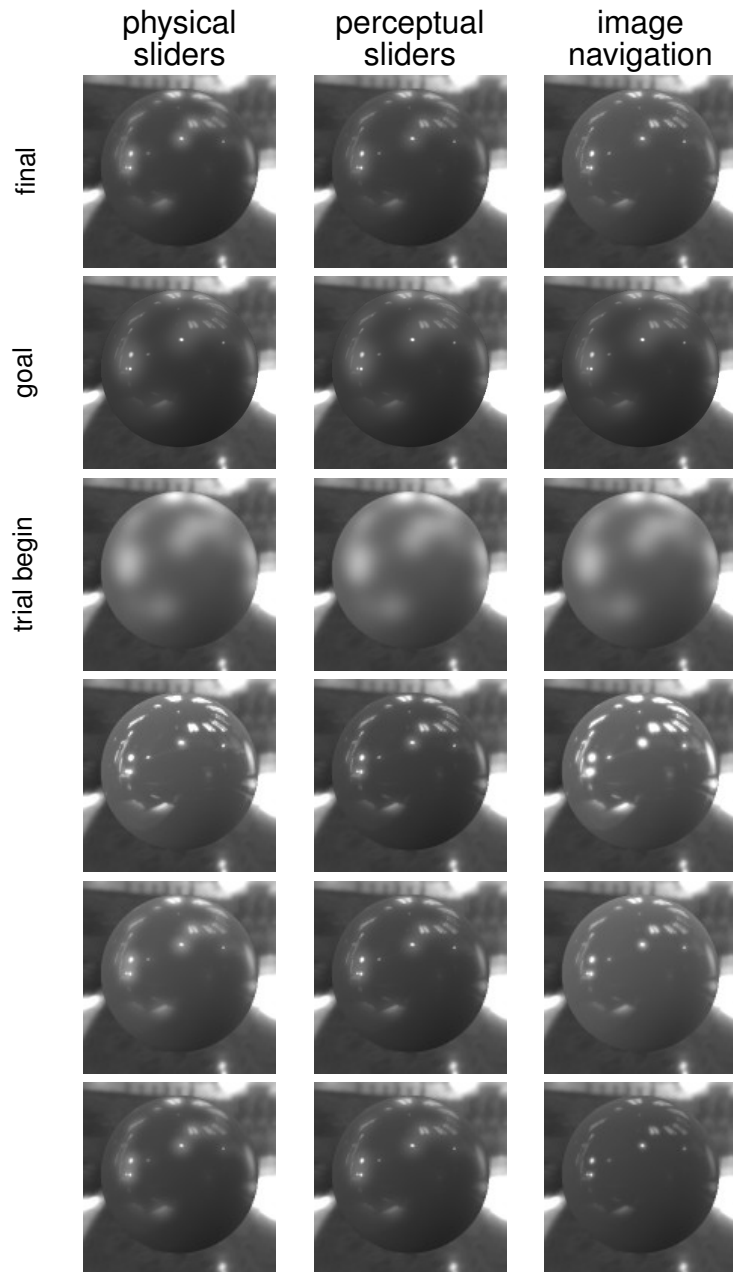
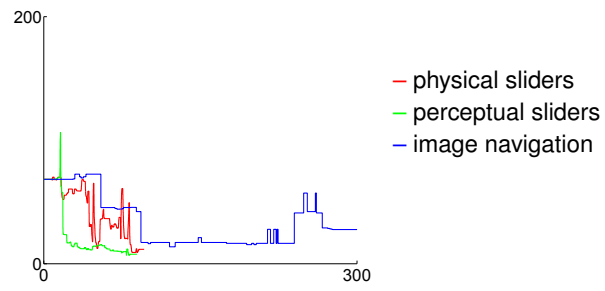
perceptual
sliders

image
navigation



Trial 3

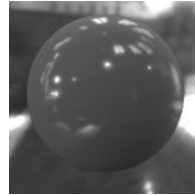
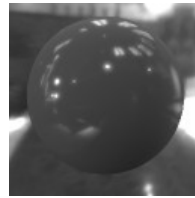
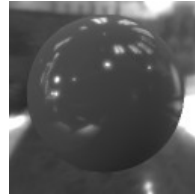
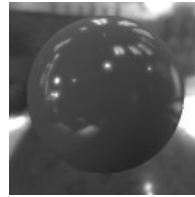
Error Over Time



physical
sliders

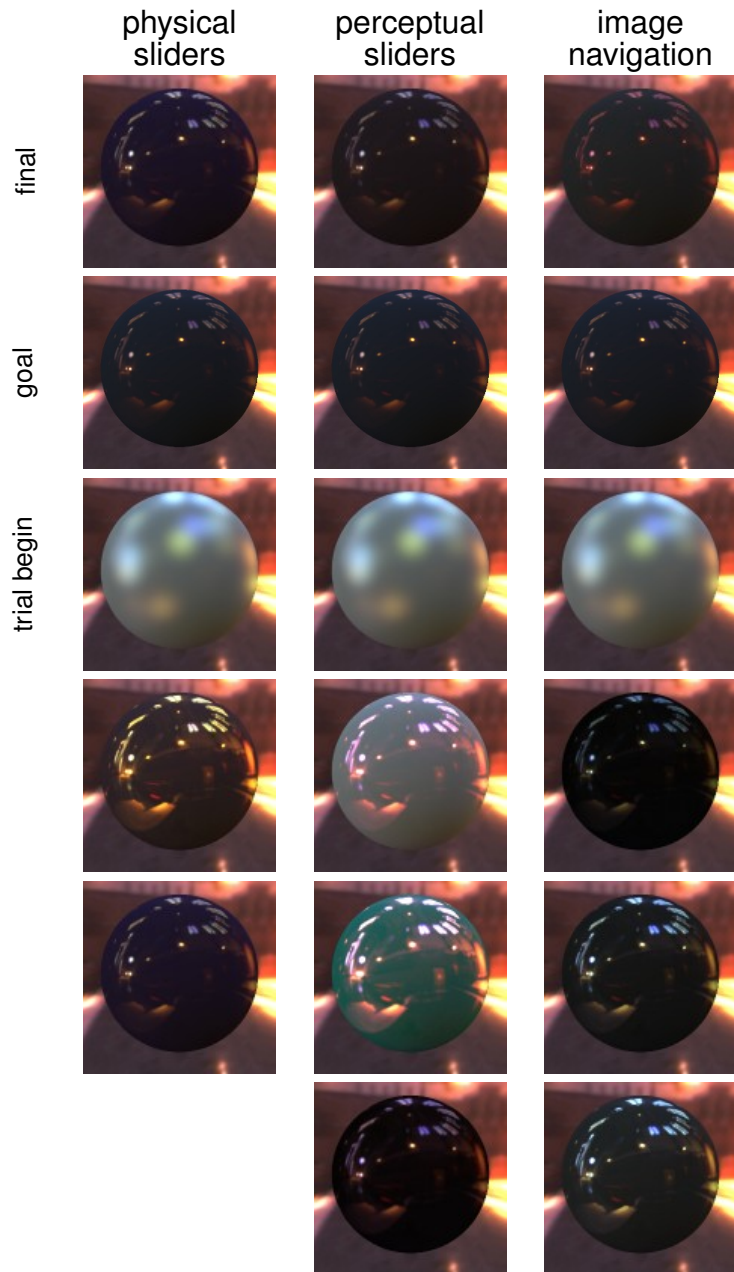
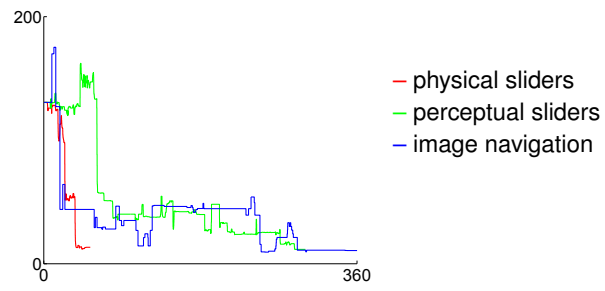
perceptual
sliders

image
navigation



Trial 4

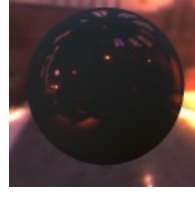
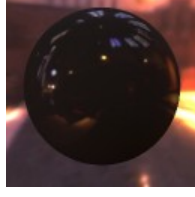
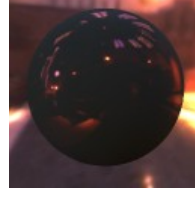
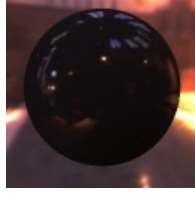
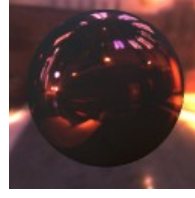
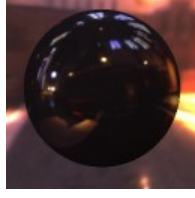
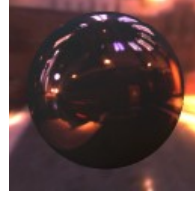
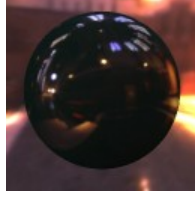
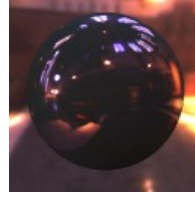
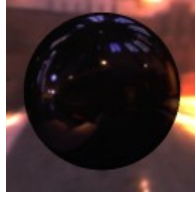
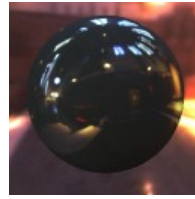
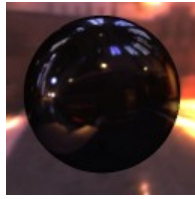
Error Over Time



physical
sliders

perceptual
sliders

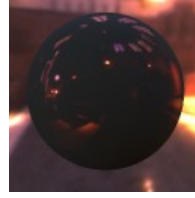
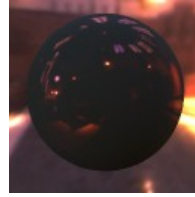
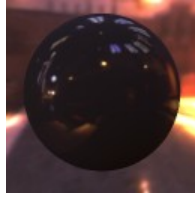
image
navigation



physical
sliders

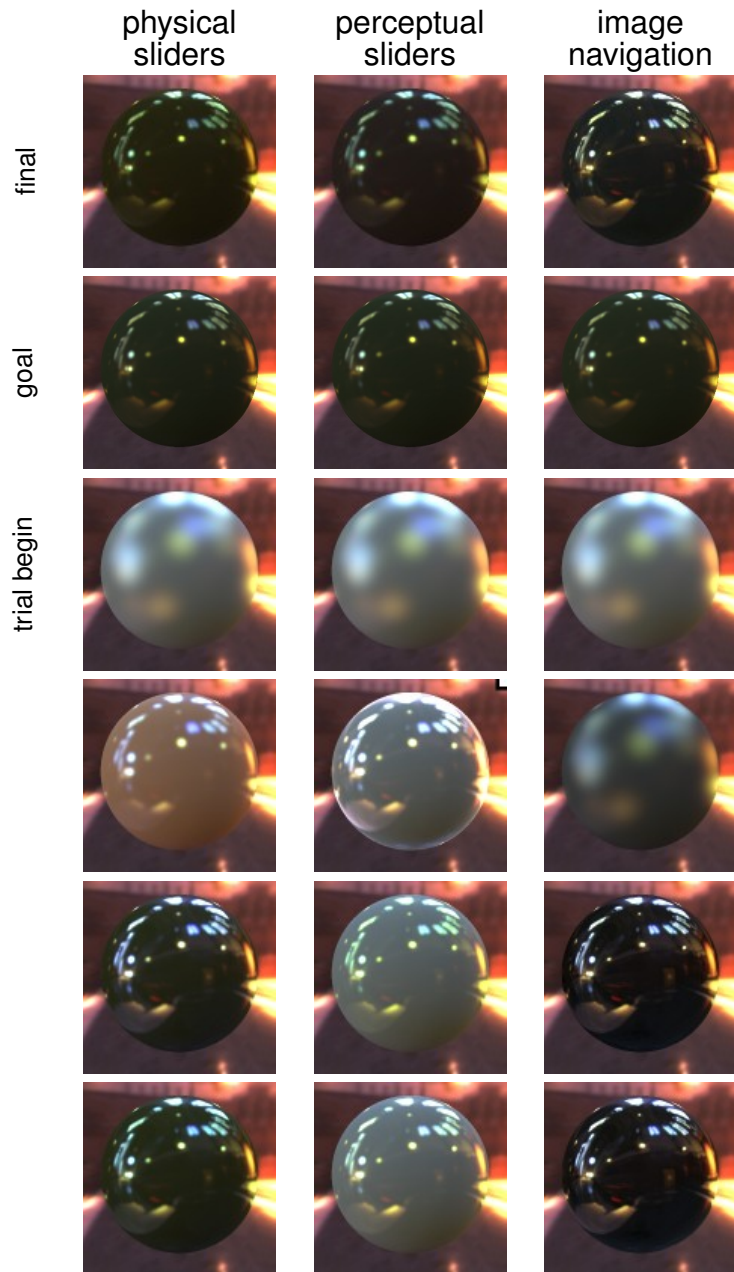
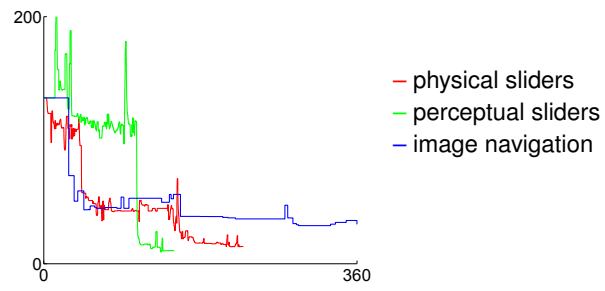
perceptual
sliders

image
navigation

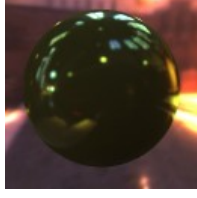
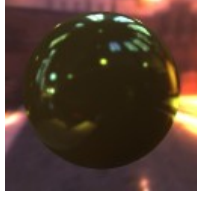
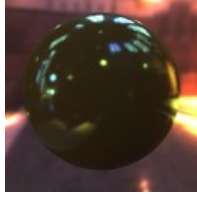
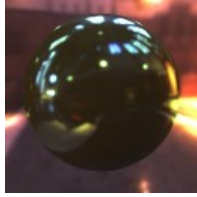


Trial 5

Error Over Time



physical
sliders



perceptual
sliders

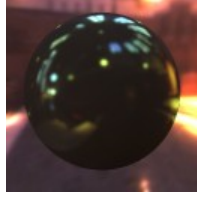
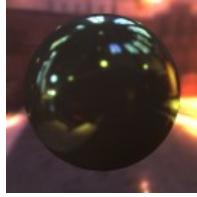
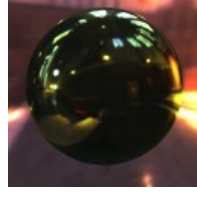
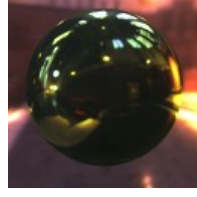
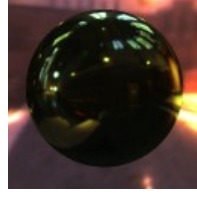
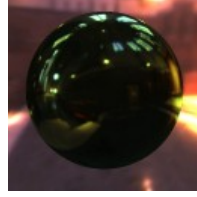
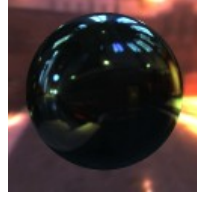
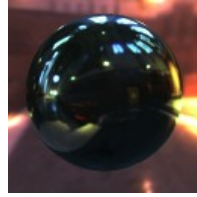


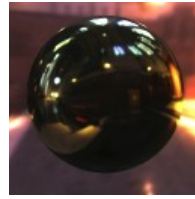
image
navigation



physical
sliders

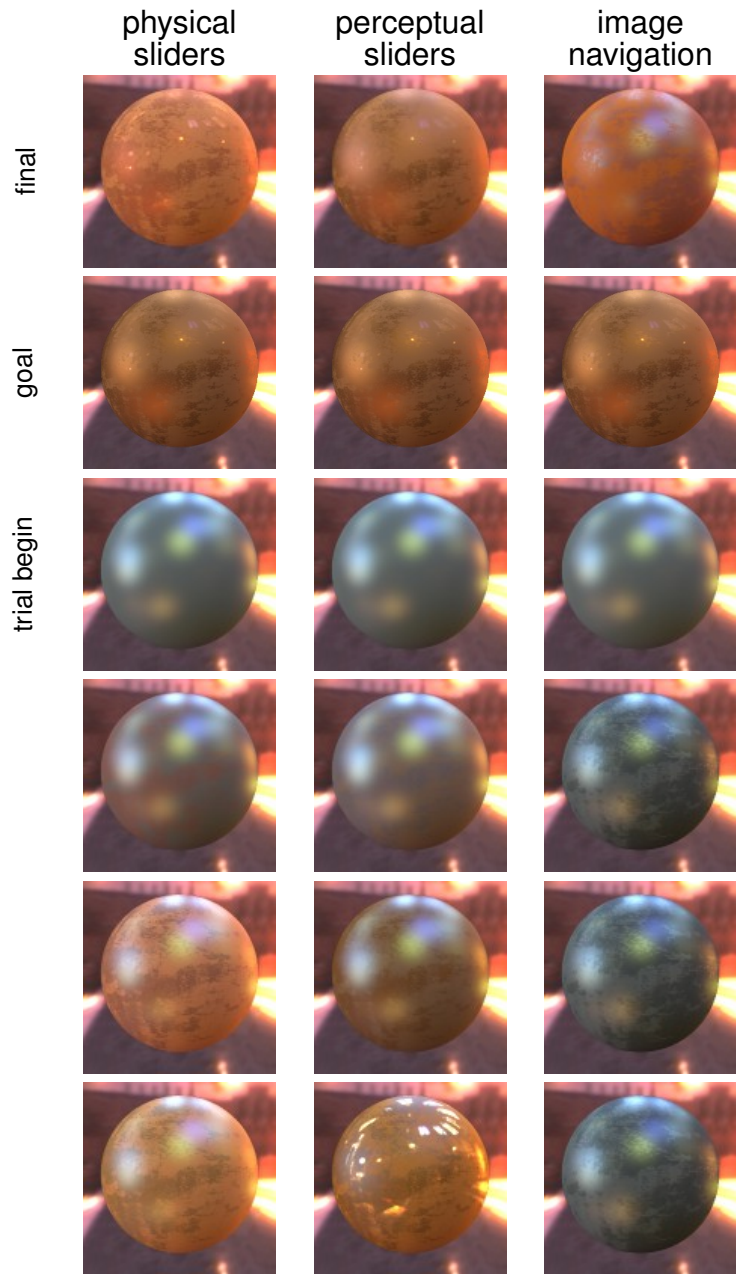
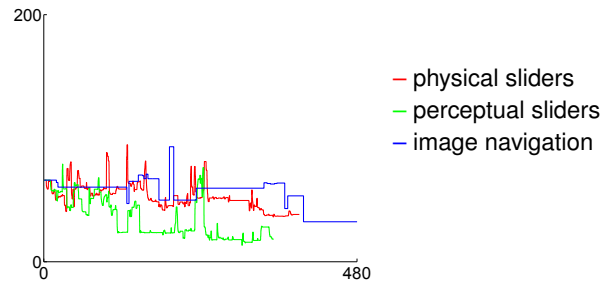
perceptual
sliders

image
navigation

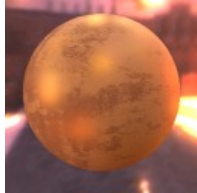


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

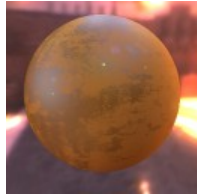
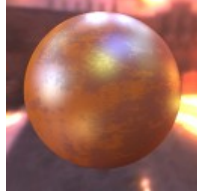
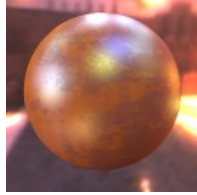
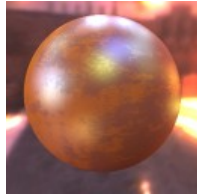
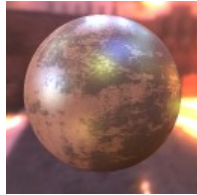


image
navigation



physical
sliders



perceptual
sliders

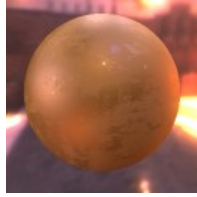
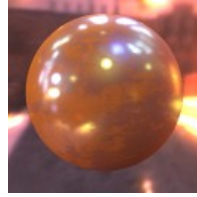
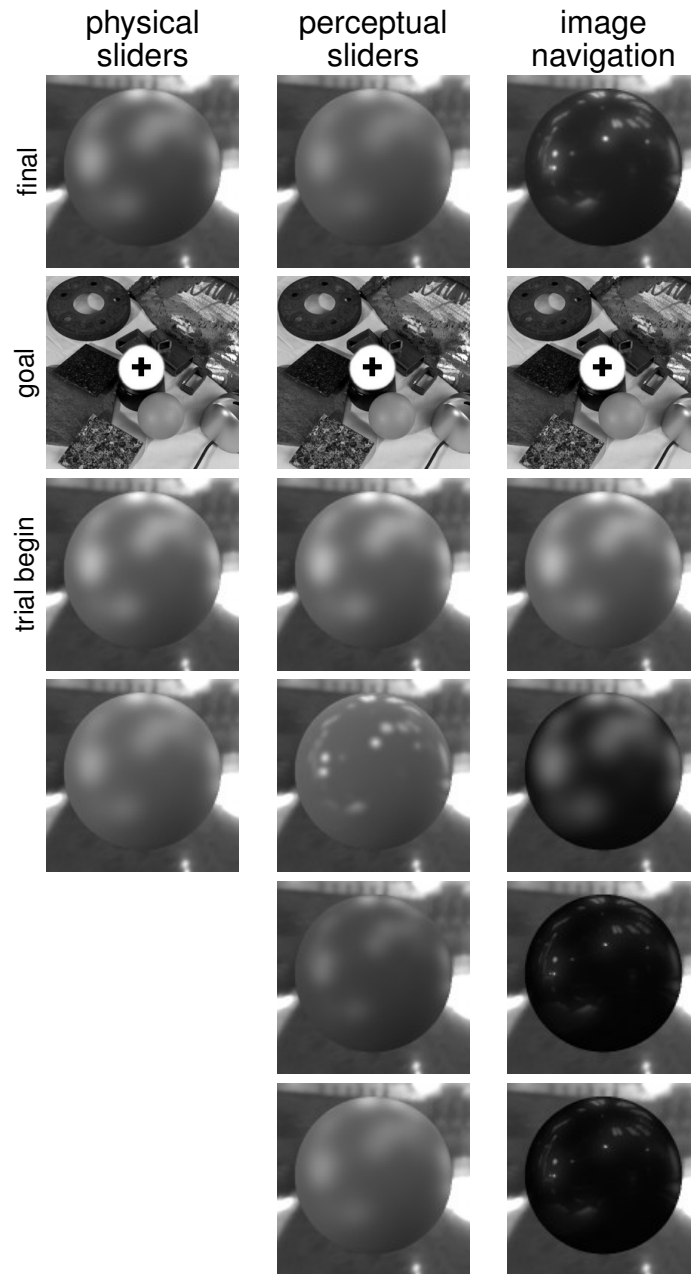


image
navigation



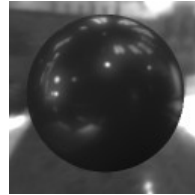
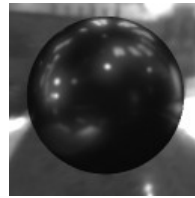
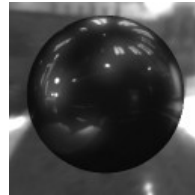
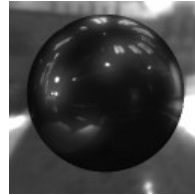
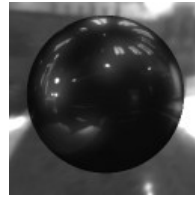
Trial 7



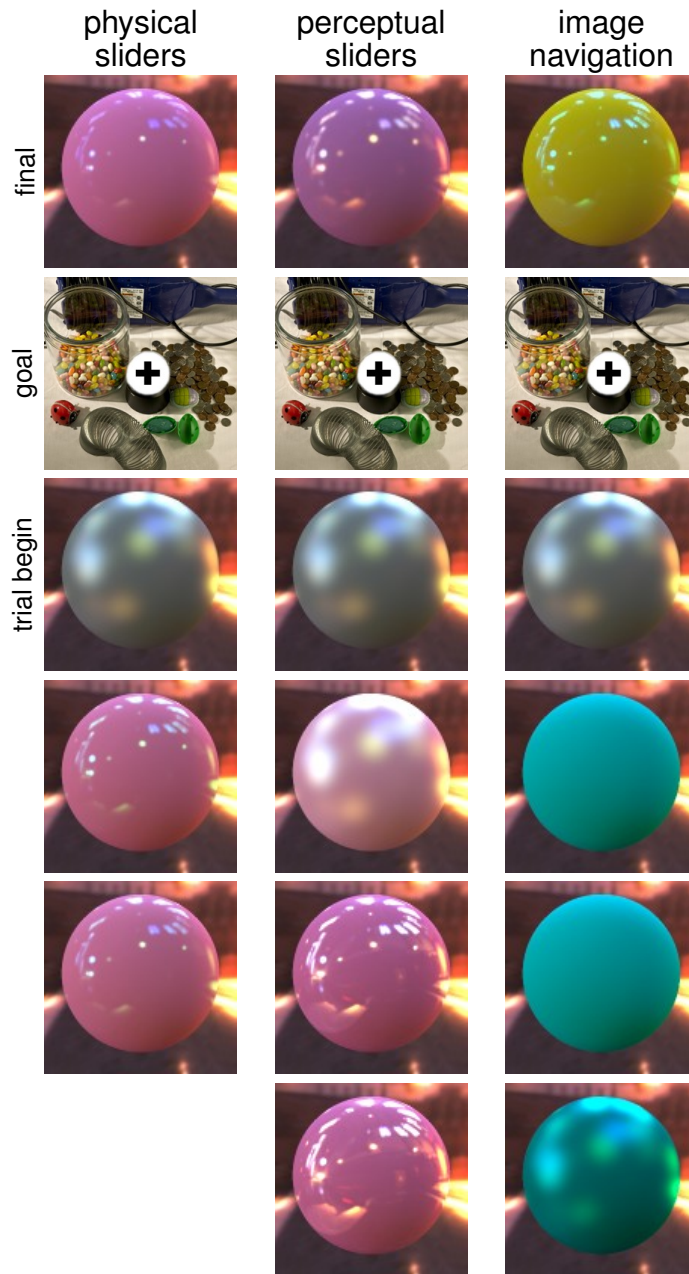
physical
sliders

perceptual
sliders

image
navigation



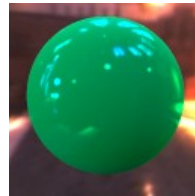
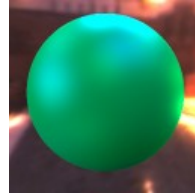
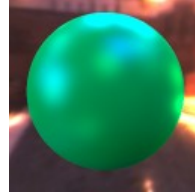
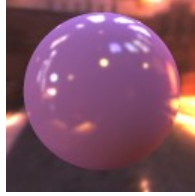
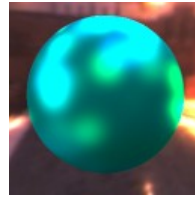
Trial 8



physical
sliders

perceptual
sliders

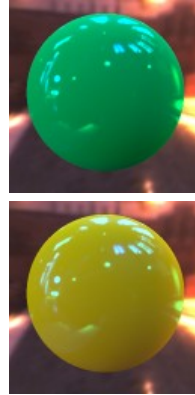
image
navigation



physical
sliders

perceptual
sliders

image
navigation



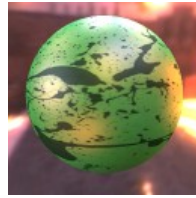
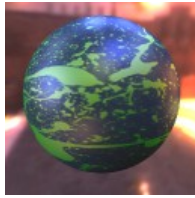
Trial 9

physical
sliders

perceptual
sliders

image
navigation

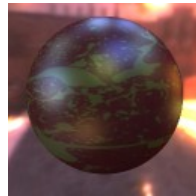
final



goal



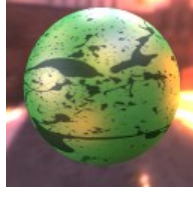
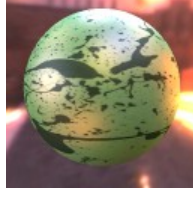
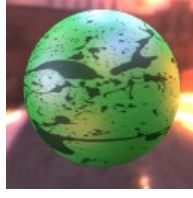
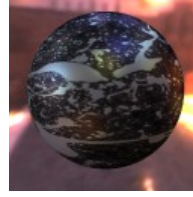
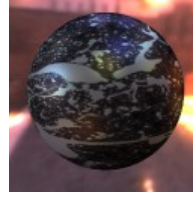
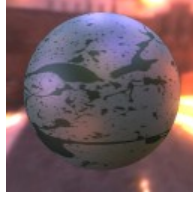
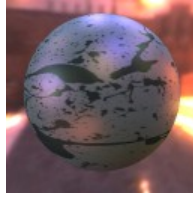
trial
begin



physical
sliders

perceptual
sliders

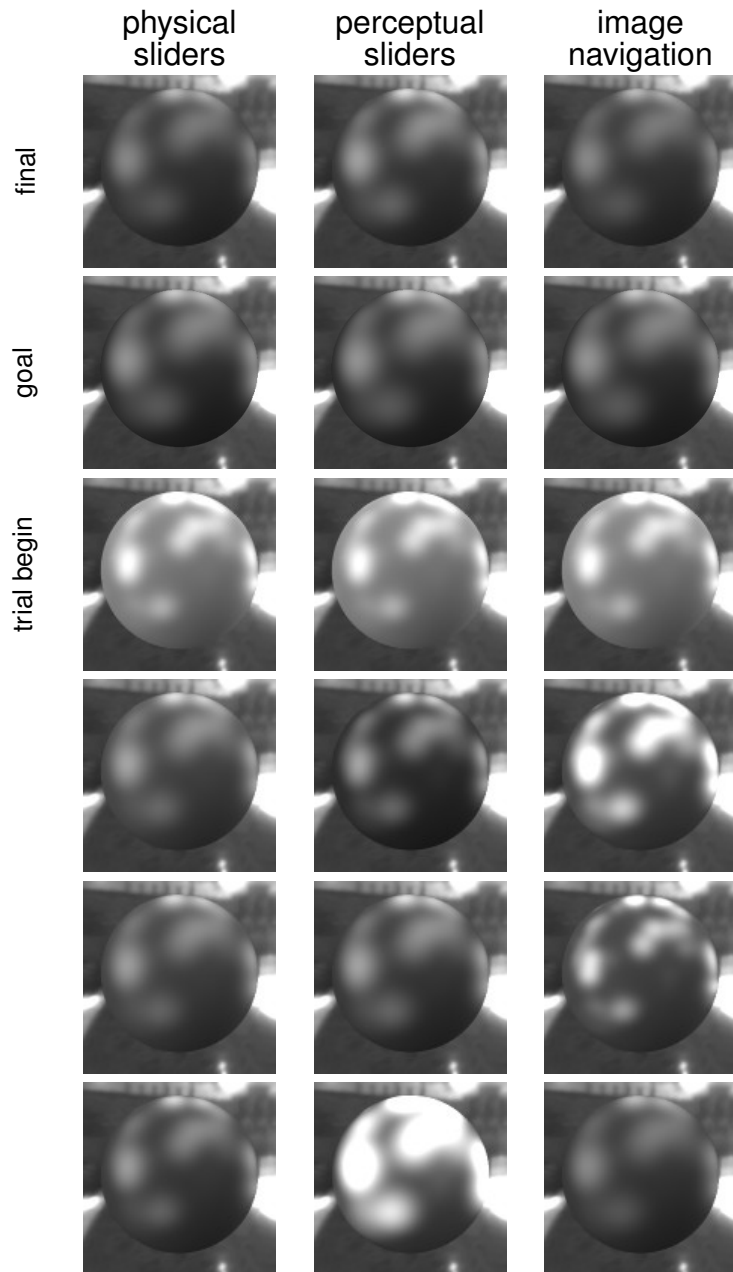
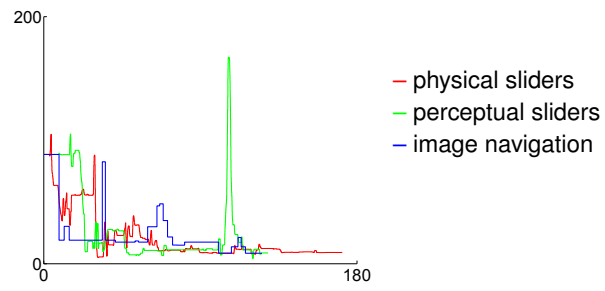
image
navigation



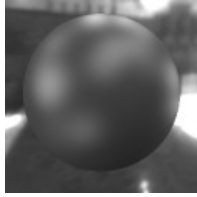
Subject 19

Trial 1

Error Over Time



physical
sliders



perceptual
sliders

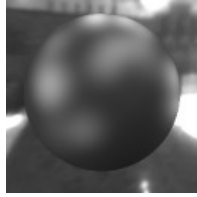
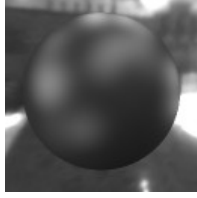
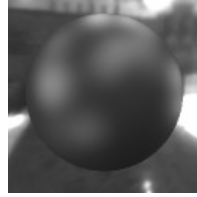
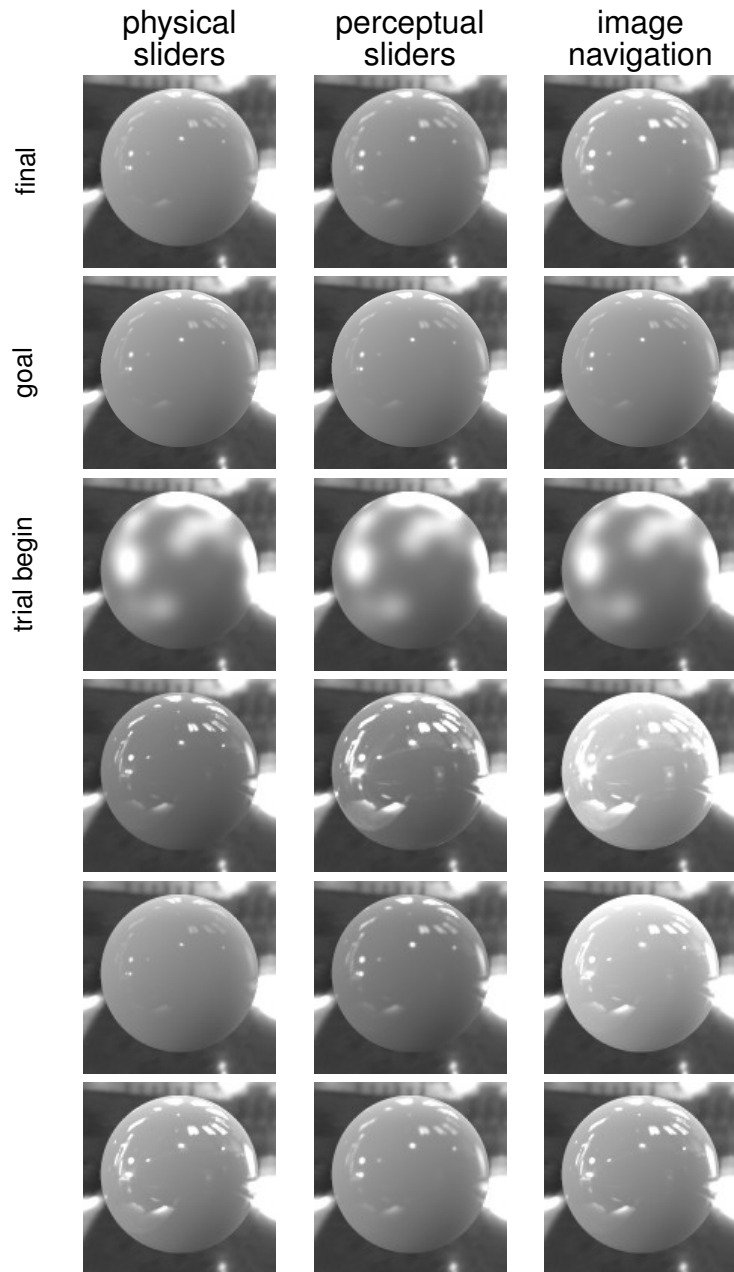
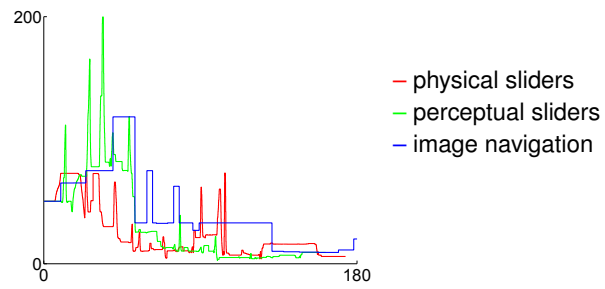


image
navigation

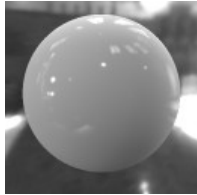
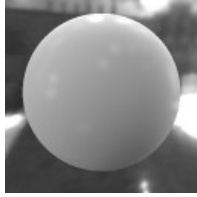


Trial 2

Error Over Time



physical
sliders



perceptual
sliders

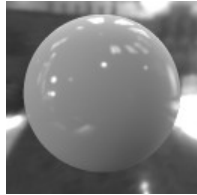
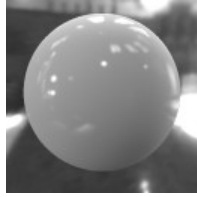
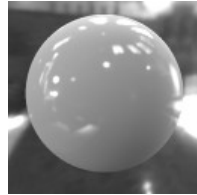
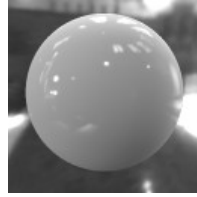
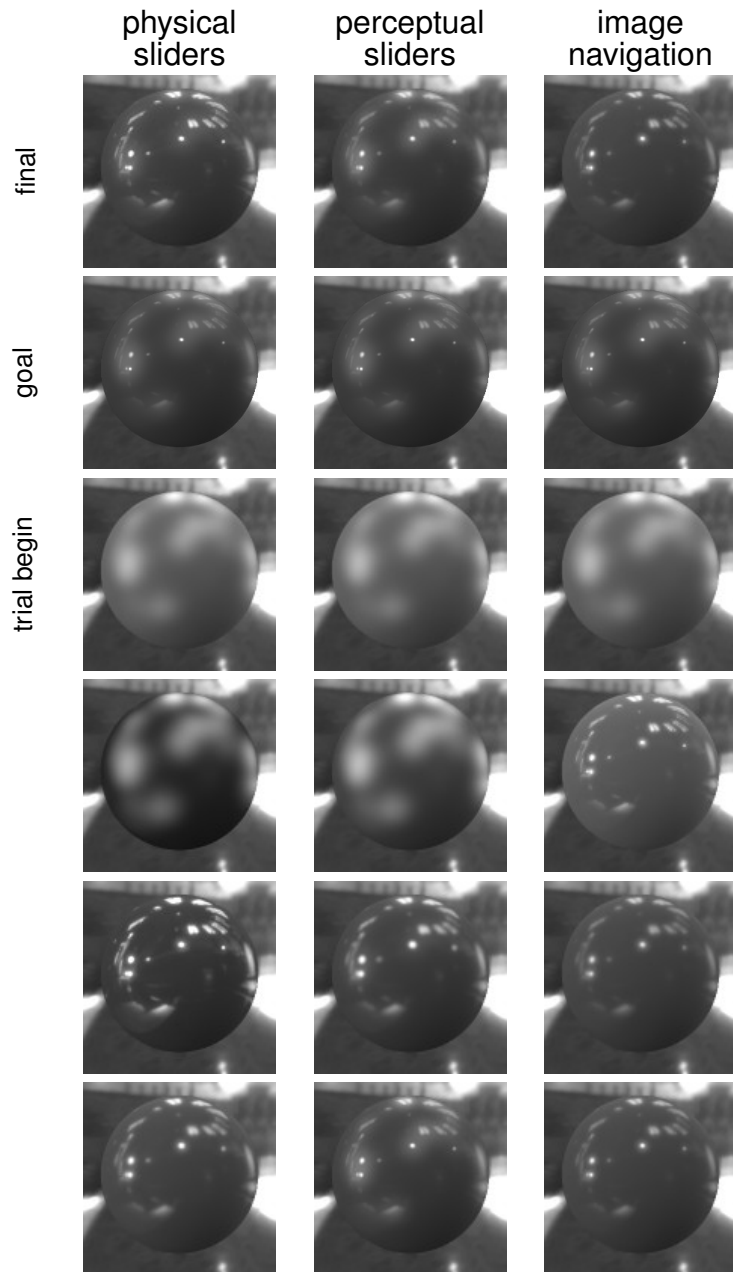
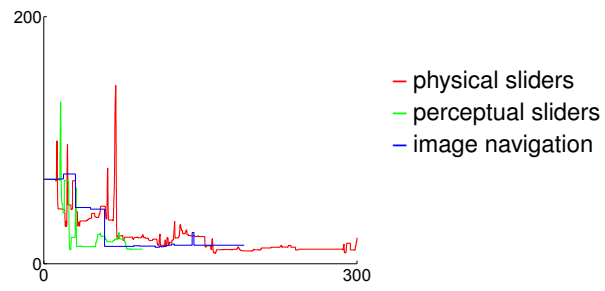


image
navigation

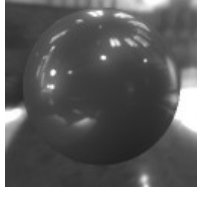
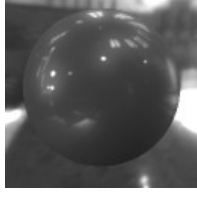
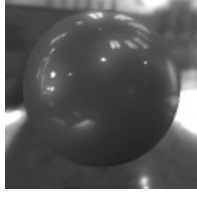
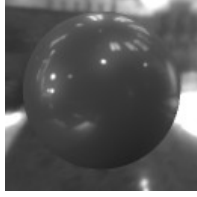
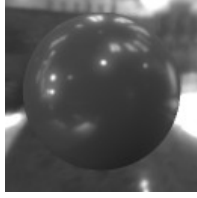


Trial 3

Error Over Time



physical
sliders



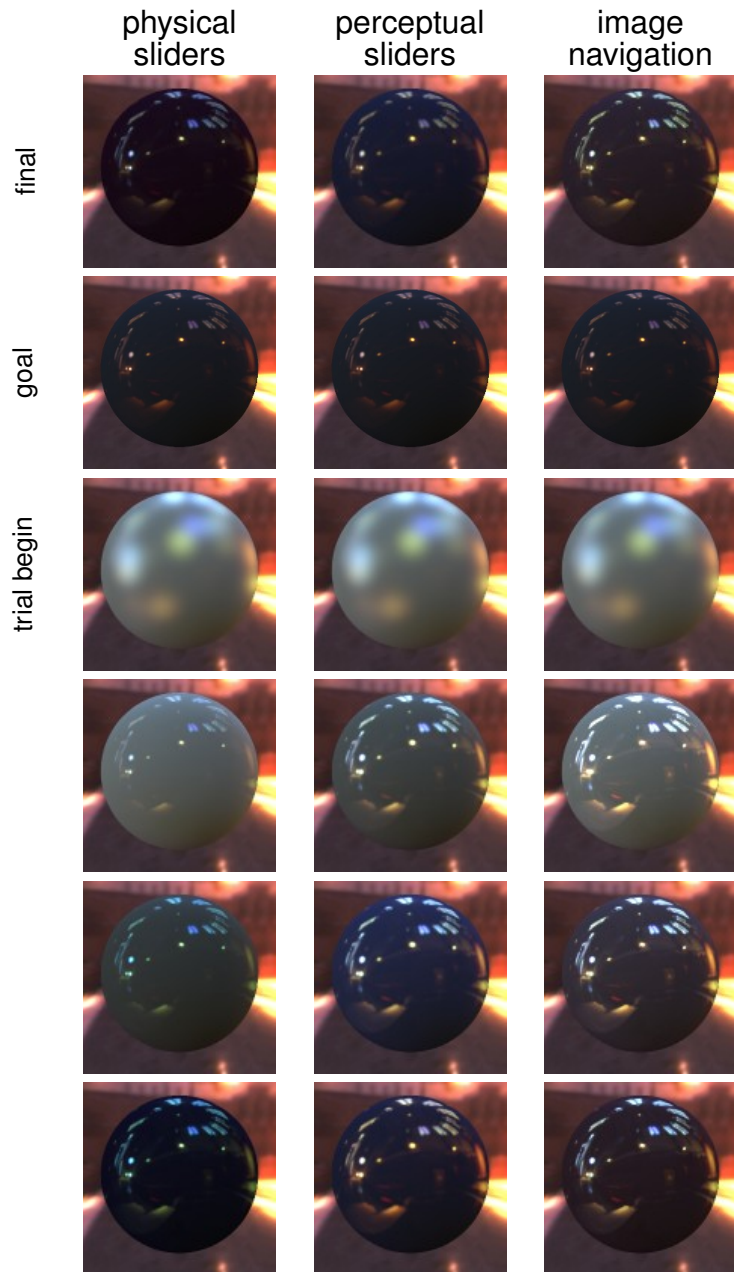
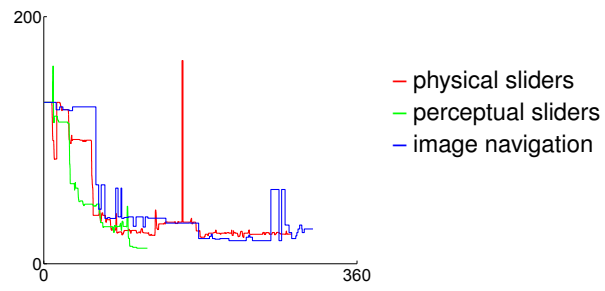
perceptual
sliders

image
navigation

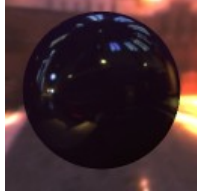
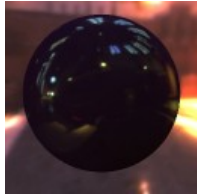
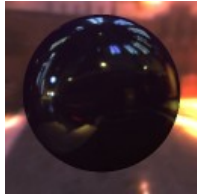
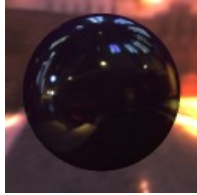
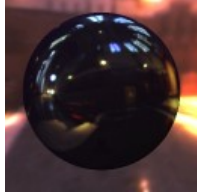
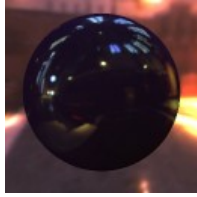


Trial 4

Error Over Time



physical
sliders



perceptual
sliders

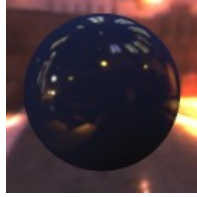
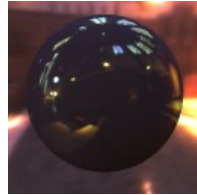
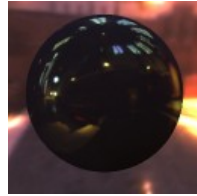
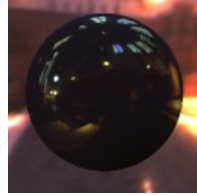
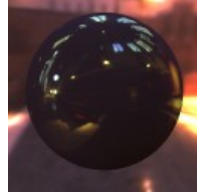
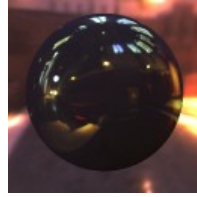
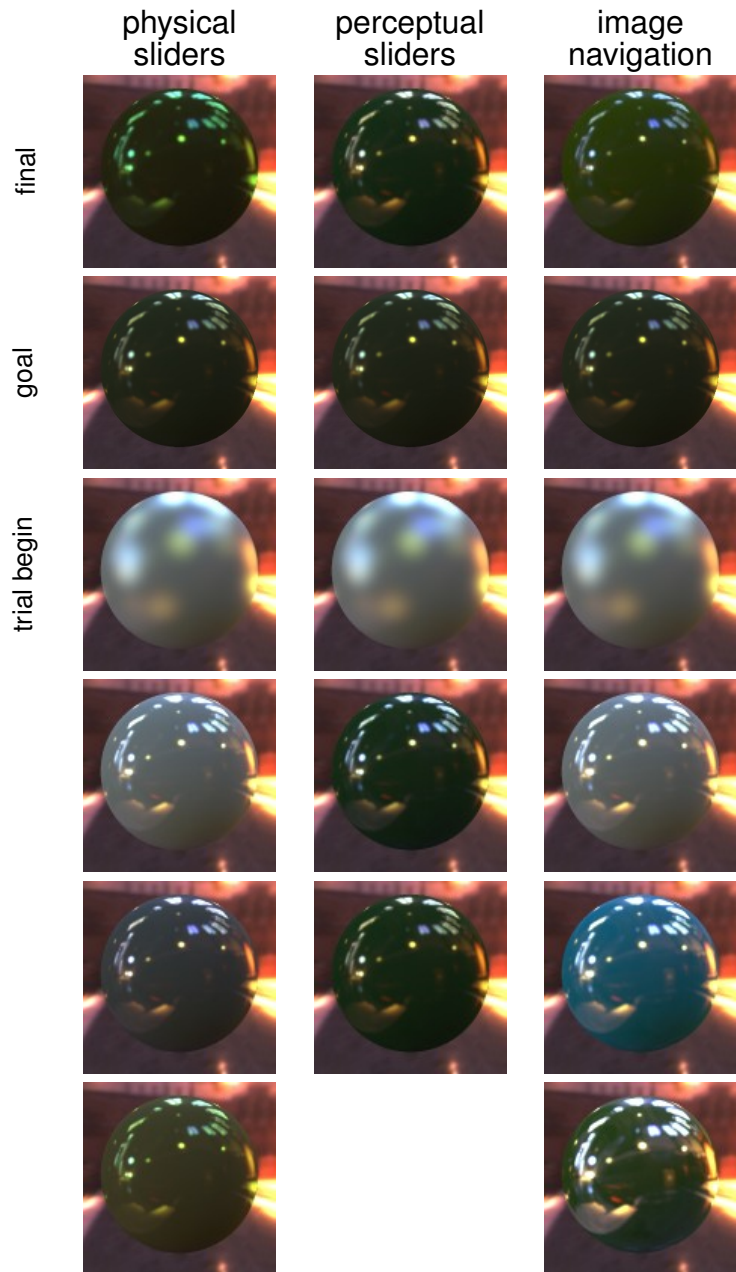
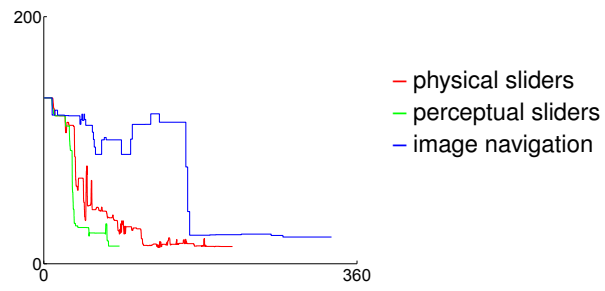


image
navigation

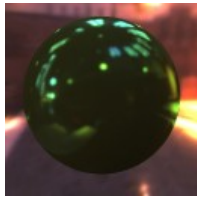
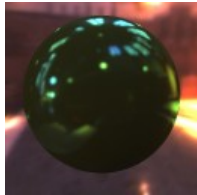
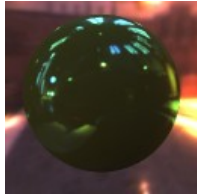
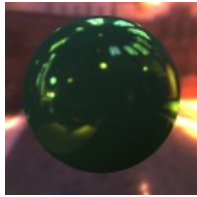


Trial 5

Error Over Time

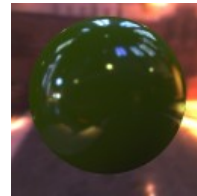
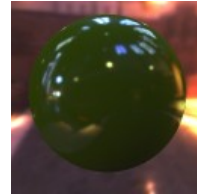
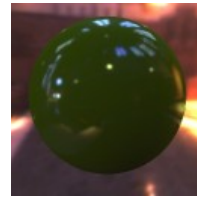
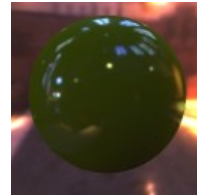
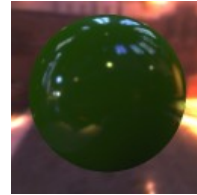
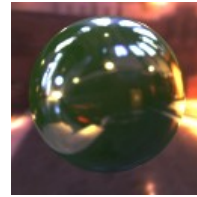


physical
sliders



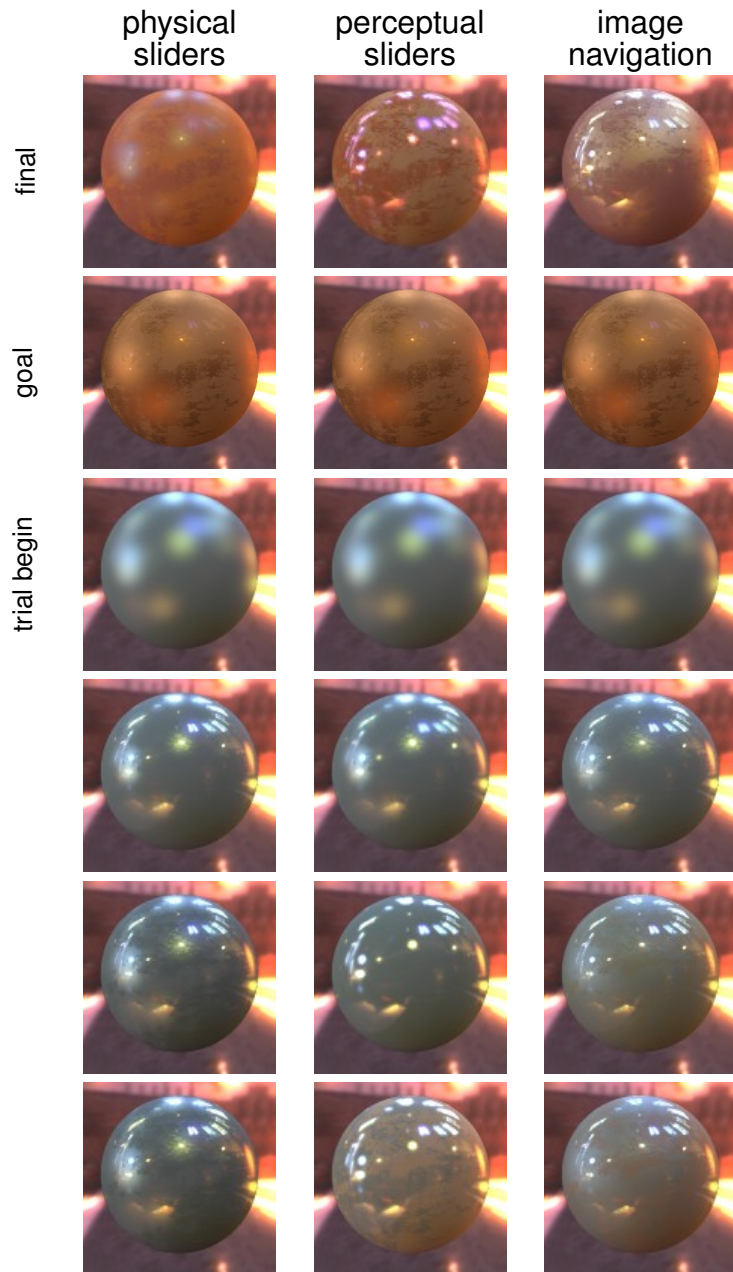
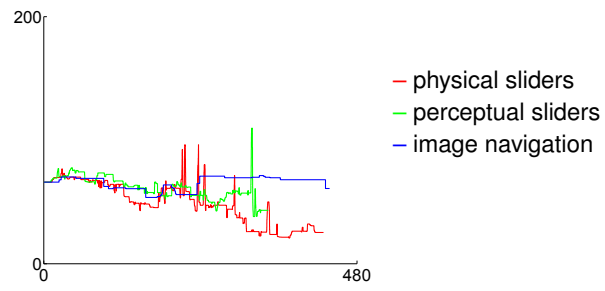
perceptual
sliders

image
navigation

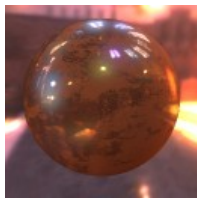
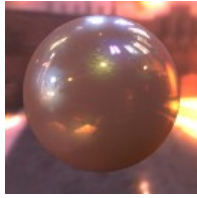
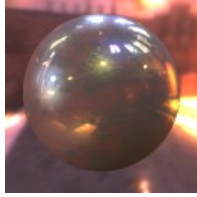


Trial 6

Error Over Time



physical
sliders



perceptual
sliders

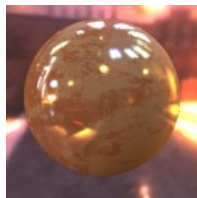
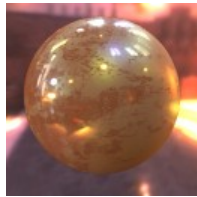
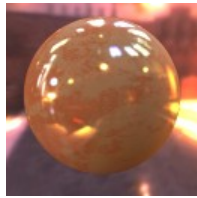
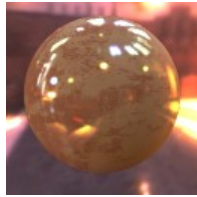
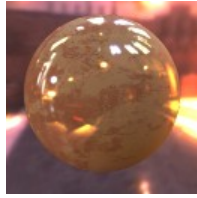
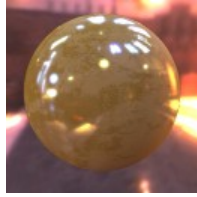
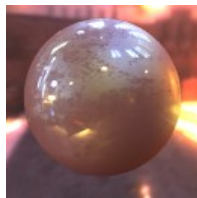
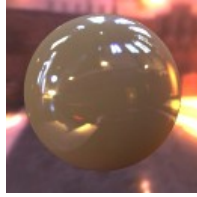
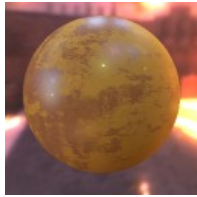


image
navigation



physical
sliders



perceptual
sliders

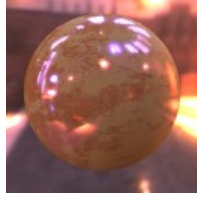
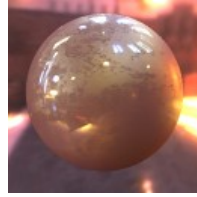
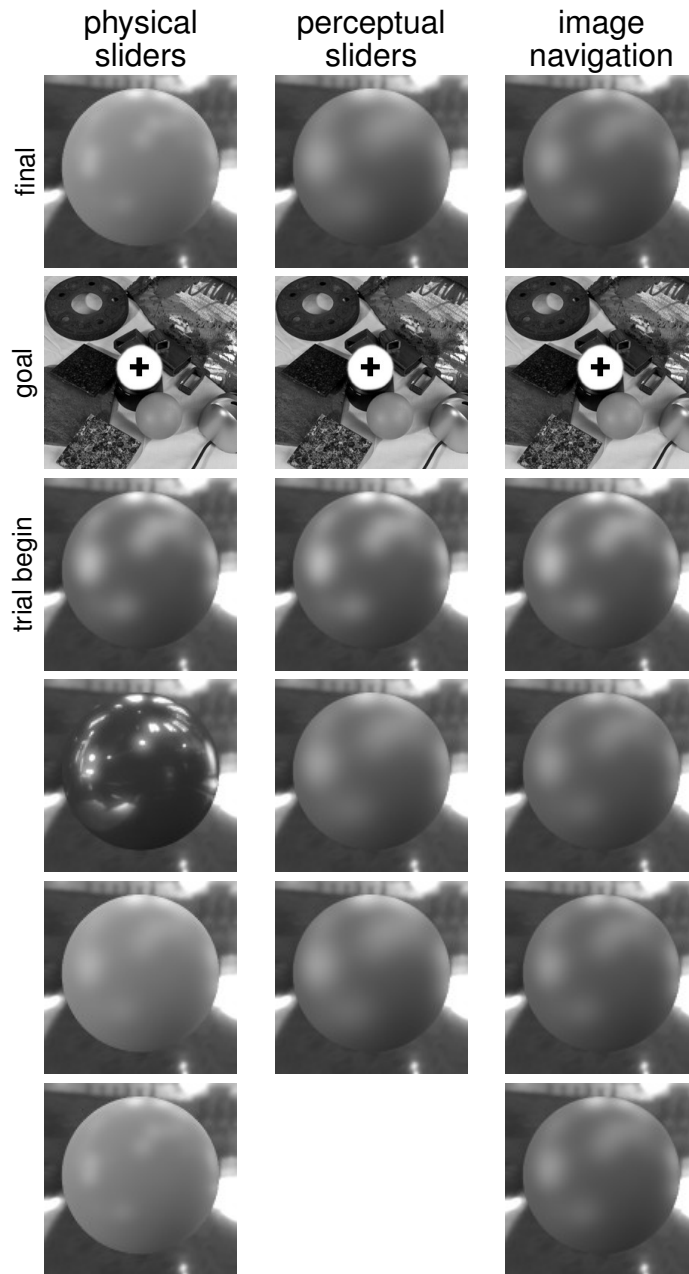


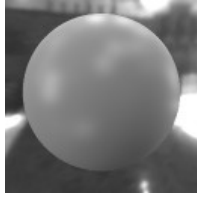
image
navigation



Trial 7



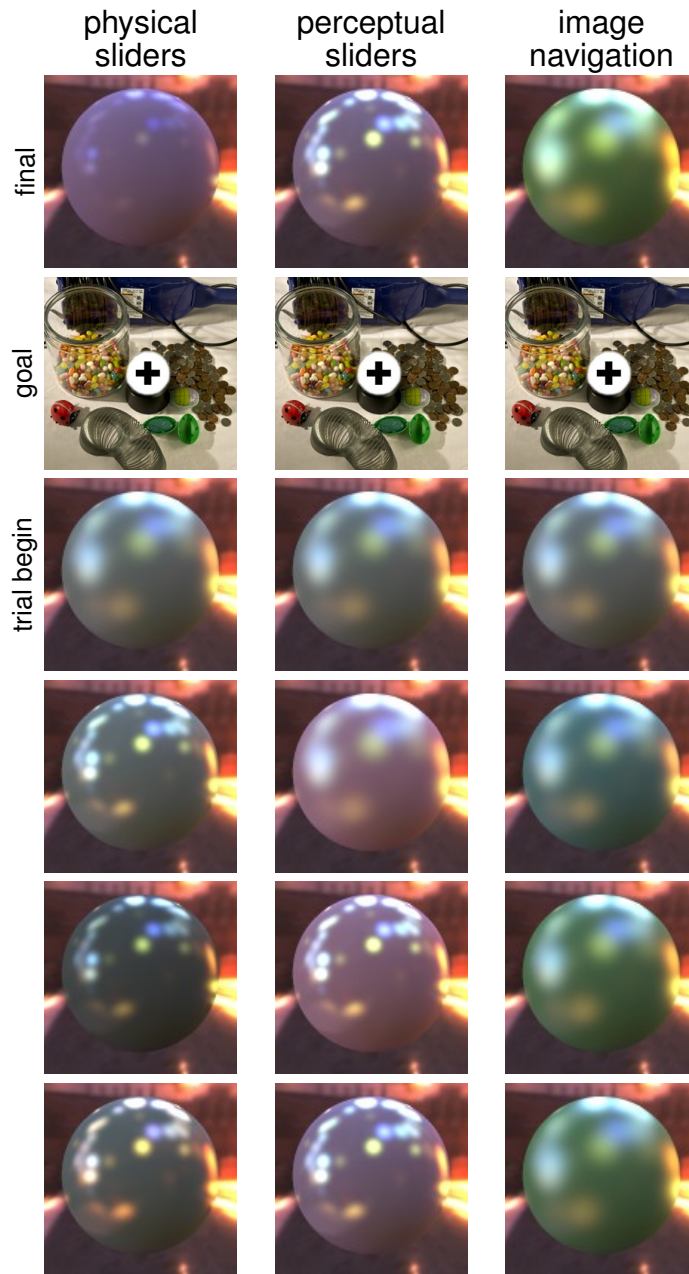
physical
sliders



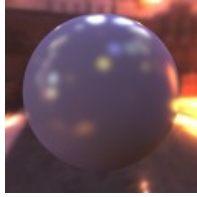
perceptual
sliders

image
navigation

Trial 8



physical
sliders



perceptual
sliders

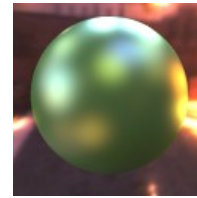
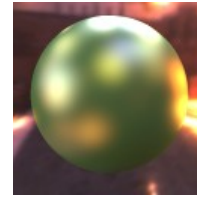
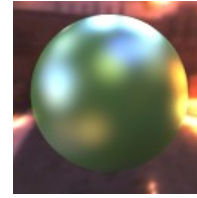
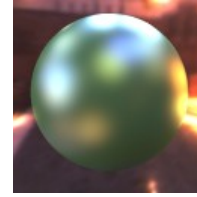
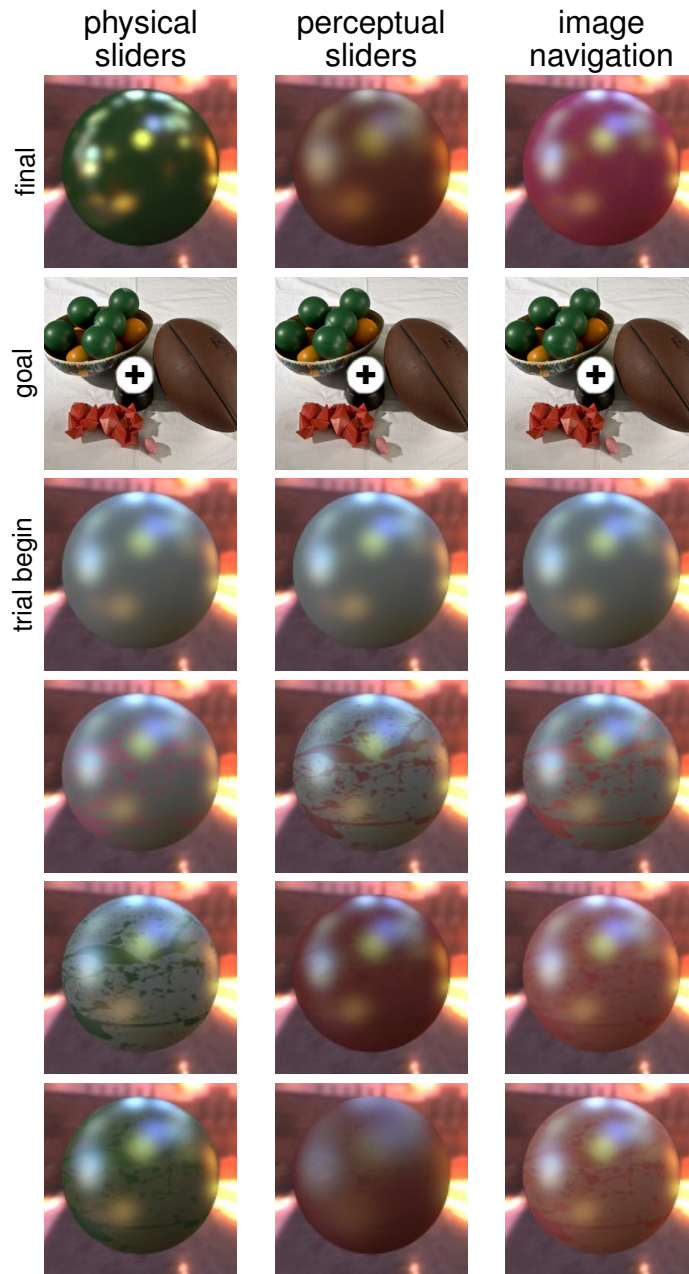
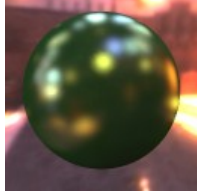
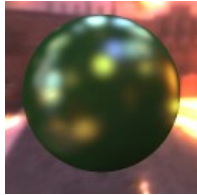
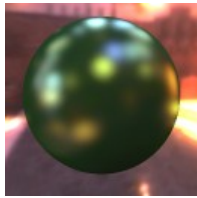
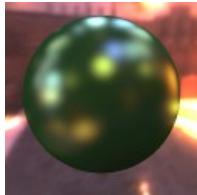
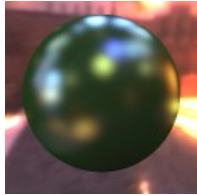
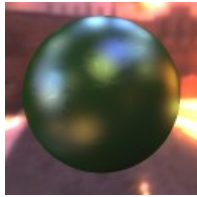


image
navigation

Trial 9



physical
sliders



perceptual
sliders

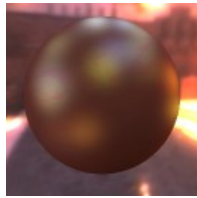
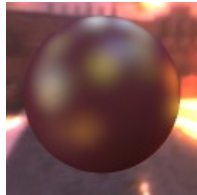
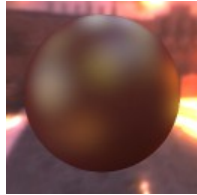
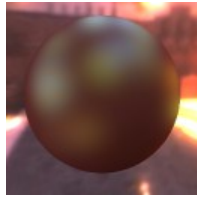
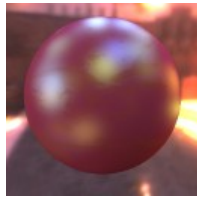
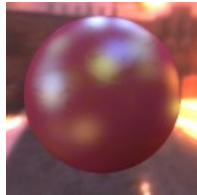
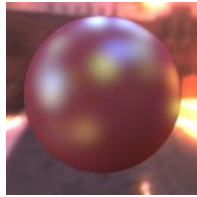


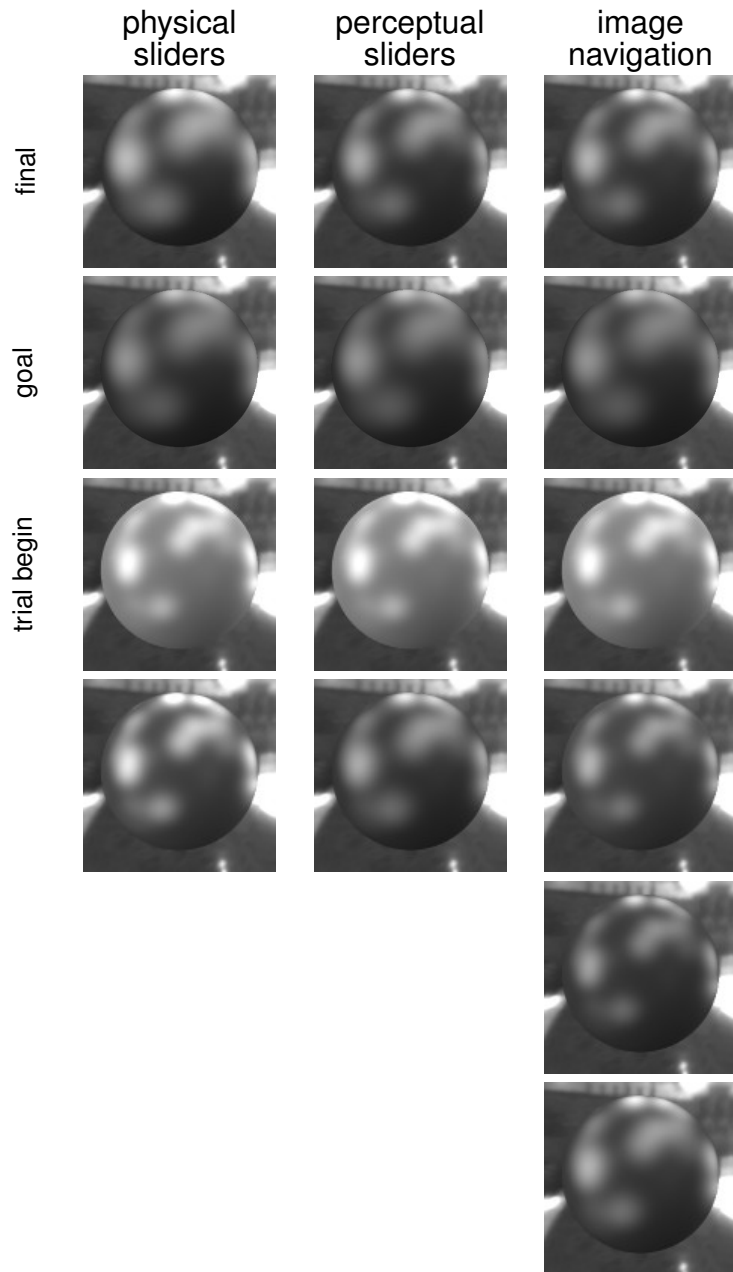
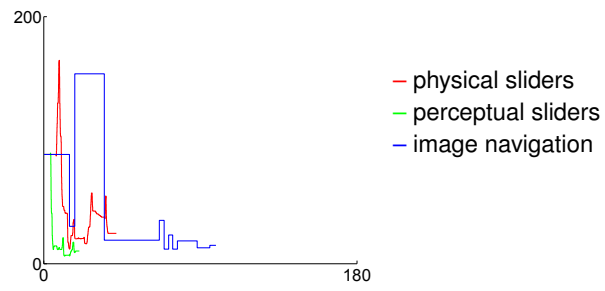
image
navigation



Subject 20

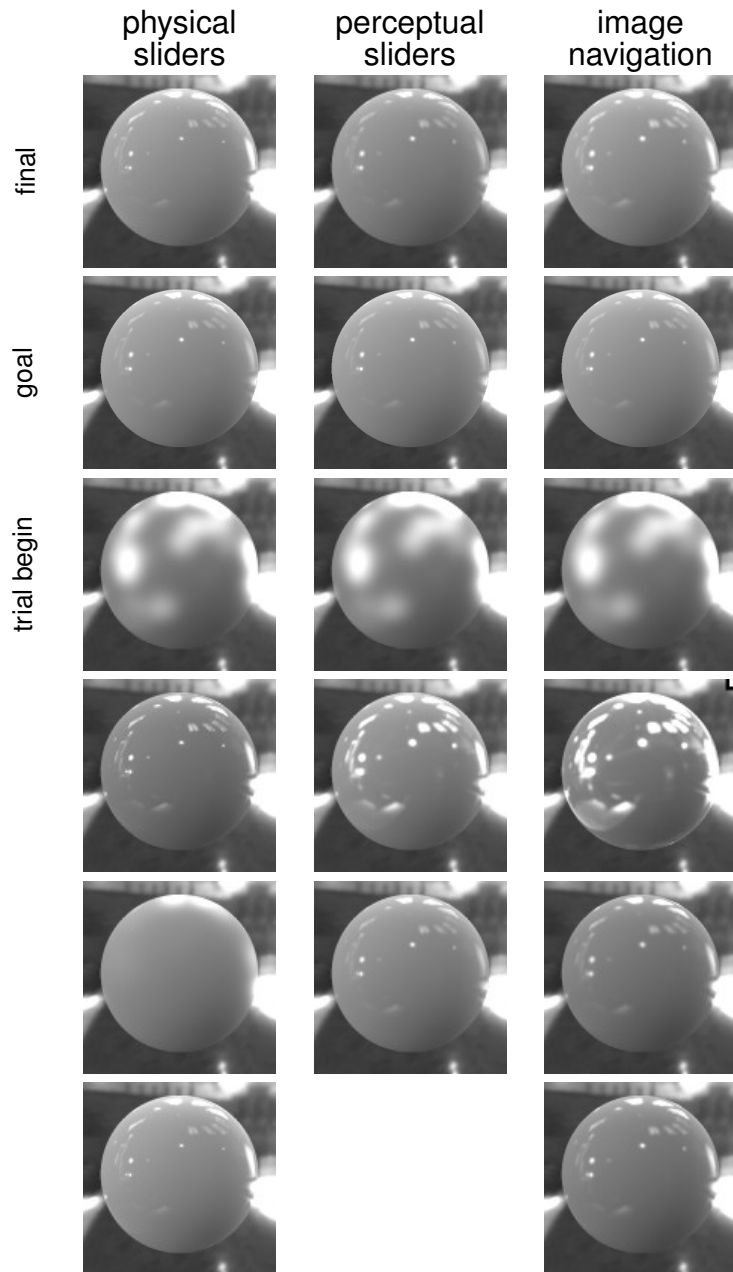
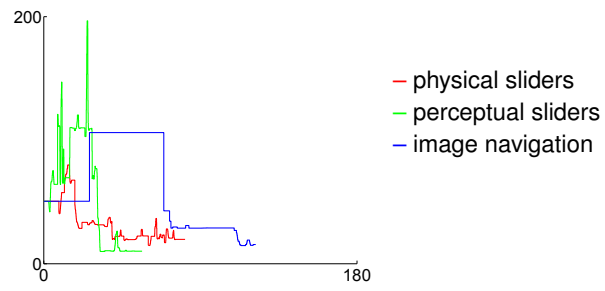
Trial 1

Error Over Time



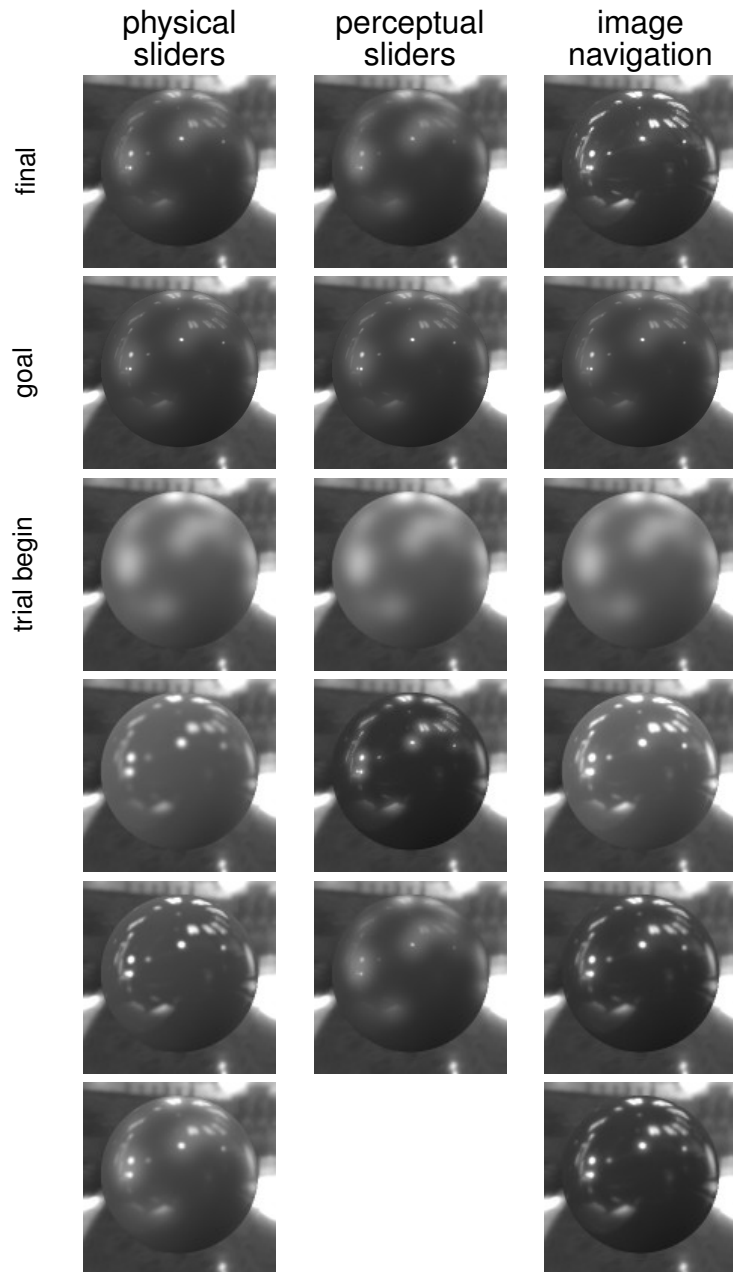
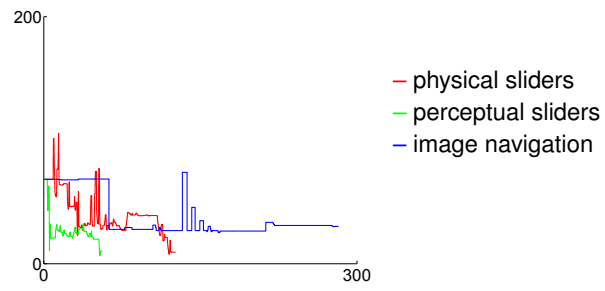
Trial 2

Error Over Time

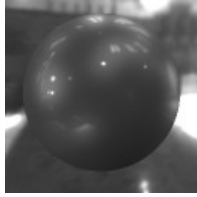


Trial 3

Error Over Time

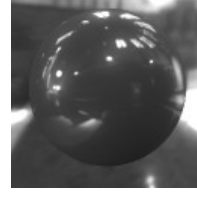
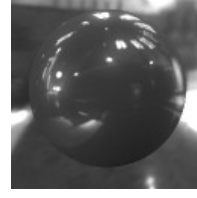
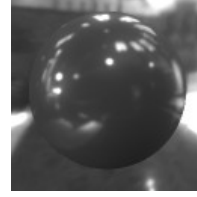
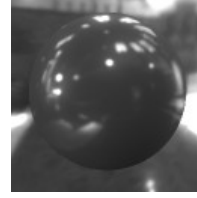
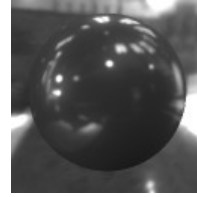


physical
sliders



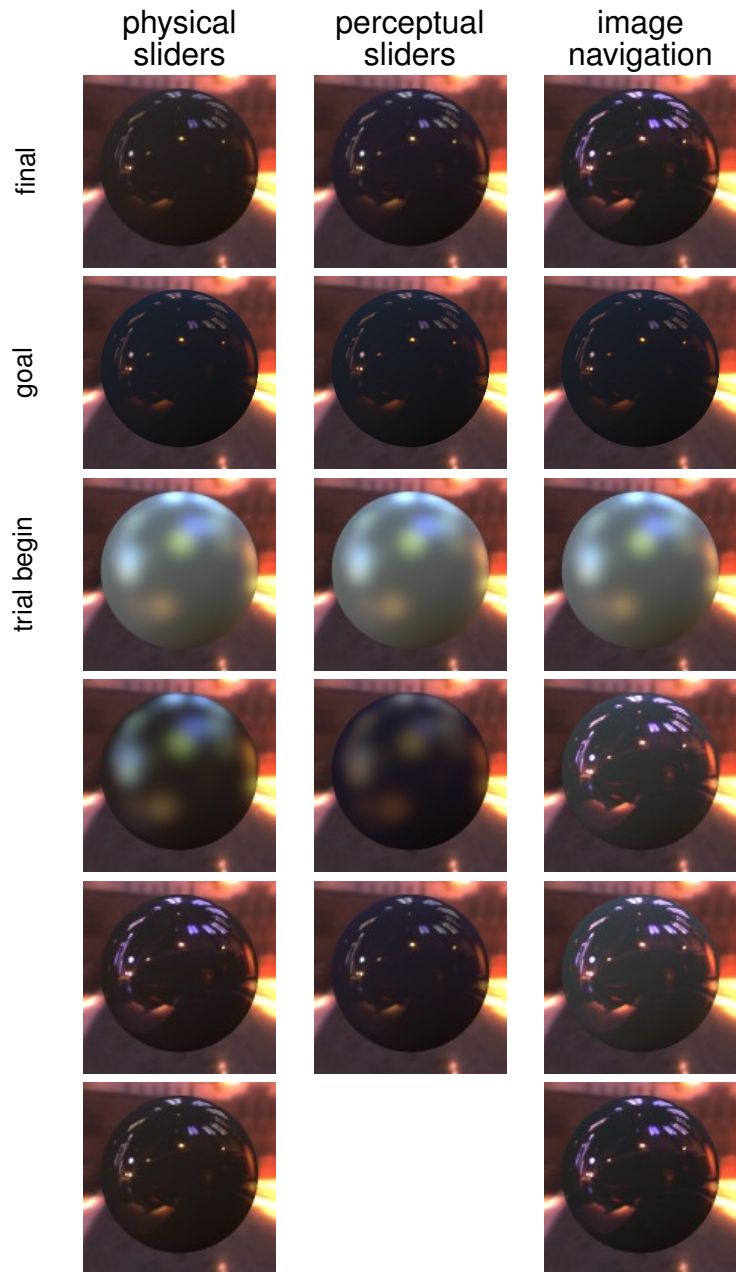
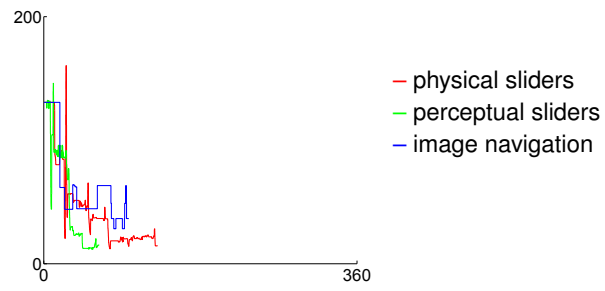
perceptual
sliders

image
navigation

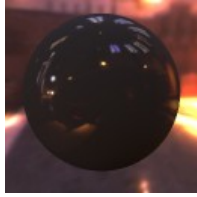


Trial 4

Error Over Time



physical
sliders

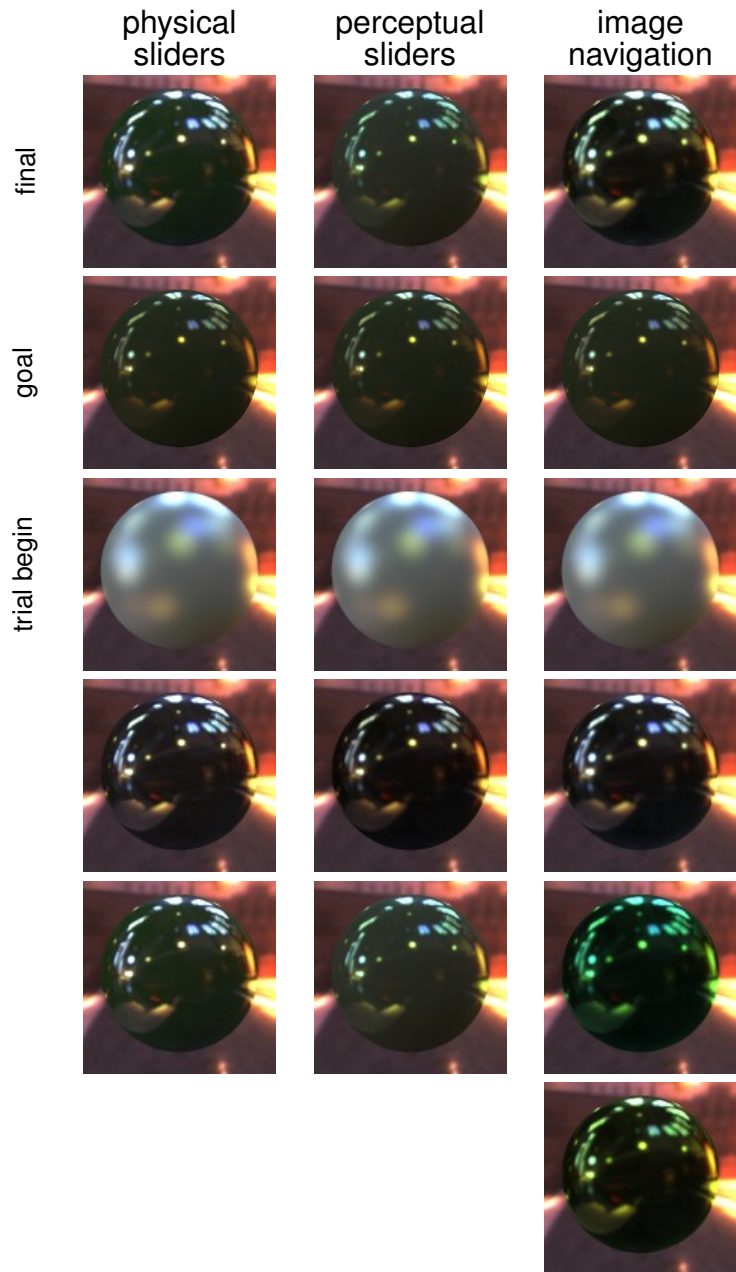
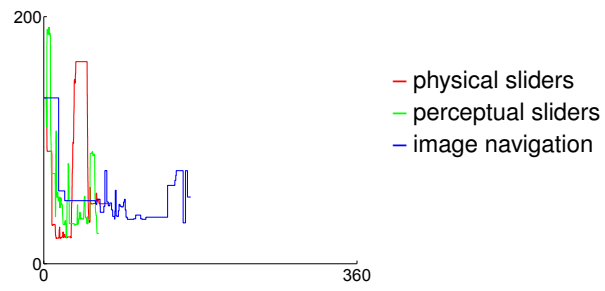


perceptual
sliders

image
navigation

Trial 5

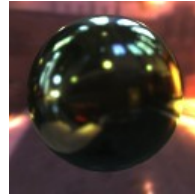
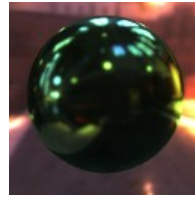
Error Over Time



physical
sliders

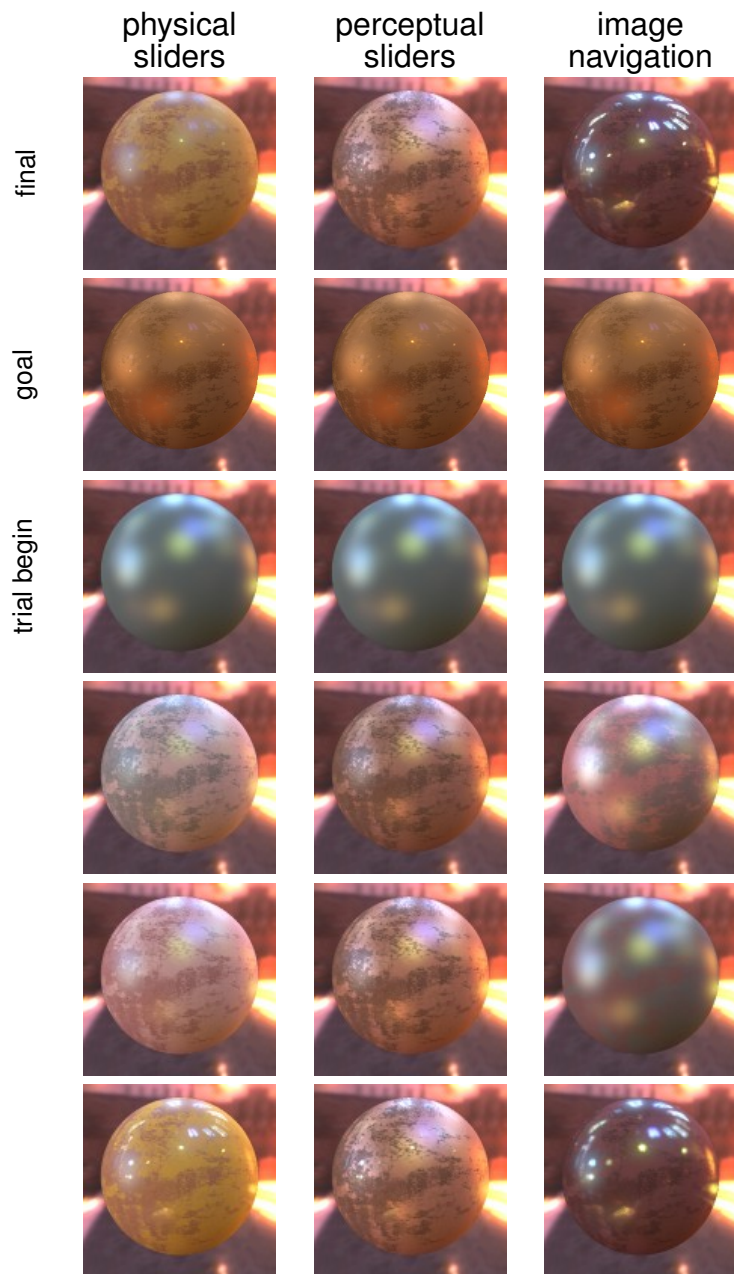
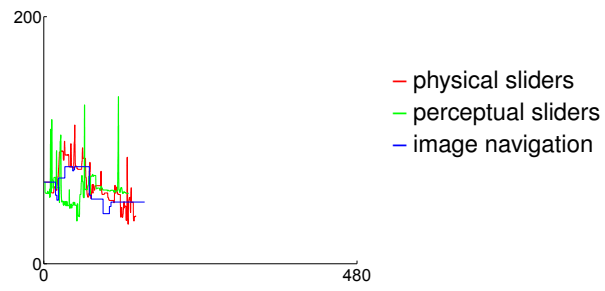
perceptual
sliders

image
navigation



Trial 6

Error Over Time



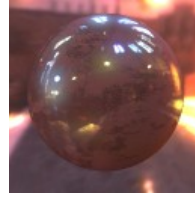
physical
sliders



perceptual
sliders



image
navigation



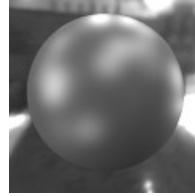
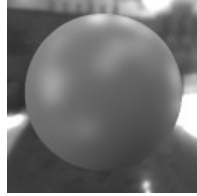
Trial 7

physical
sliders

perceptual
sliders

image
navigation

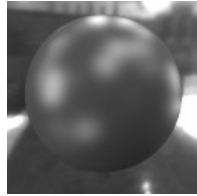
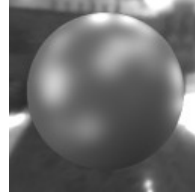
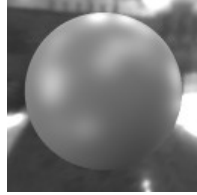
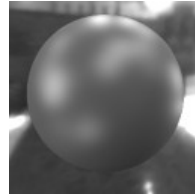
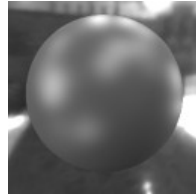
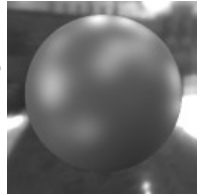
final



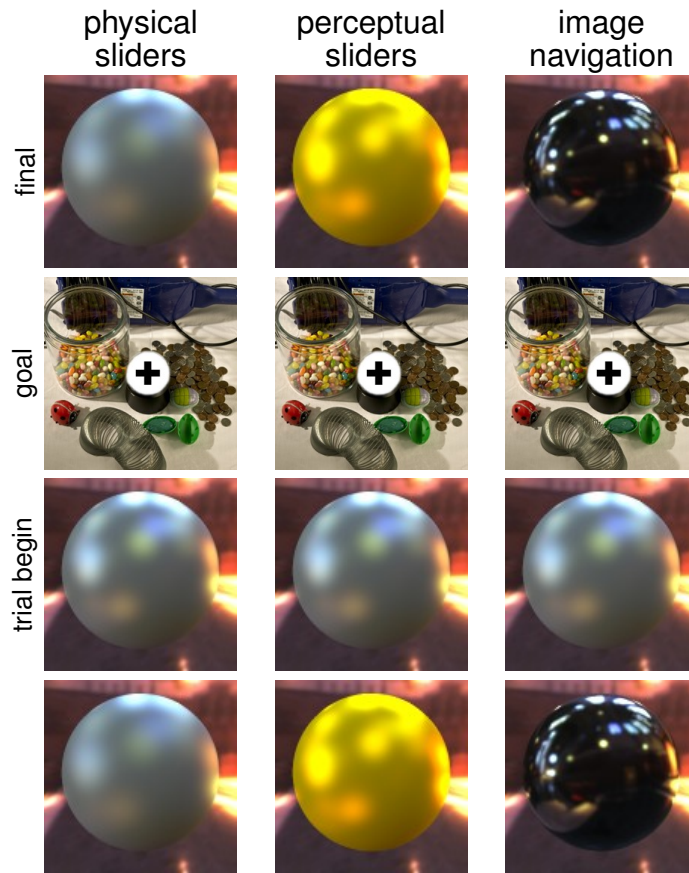
goal



trial begin



Trial 8



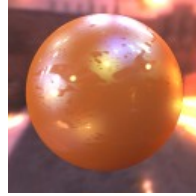
Trial 9

physical
sliders

perceptual
sliders

image
navigation

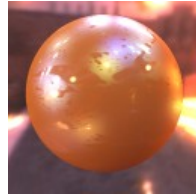
final



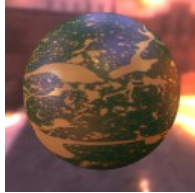
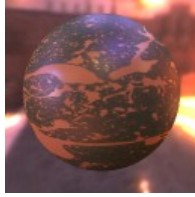
goal



trial
begin



physical
sliders



perceptual
sliders

image
navigation