

date = 15/5/01
changed parameters to pParameters

date = 19/4/2001
ensured that duration does not go negative

added property `pMyName` : ""

added

added on `getParametersAsSpreadsheetText(labelText)`

return `labelText` & " `maxreversals`", `maxreversals` of `parameters`, ↵

`labelText` & " `maxtrials`", `maxtrials` of `parameters`, ↵

`labelText` & " `stepSize`", `stepSize` of `parameters`, ↵

`labelText` & " `initialDuration`", `initialDuration` of `parameters`
end `getParametersAsSpreadsheetText`

Scroll down for a worked example

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usage:

--1. Create a staircase with starting parameters

```
set yourStairCaseName to load script file (" & Psyscript base folder &  
"libraries:stairCase library")  
tell yourStairCaseName to initialize(maxreversals:10,  
maxtrials:20, stepSize:4, initialDuration:40)
```

--2. Start your trial loop

Update the staircase after each trial

`update(gradedResponse)` --0 for wrong, 1 for correct

As necessary, update the `stepSize`

`updateStepSize(newStep)`

3. Get data with:

`getRecord()`

-->`stairCaseRecord`

`getParameters()`

-->`parameters`

`completed()`

-->true/false

--nb: handlers that begin with "i" are for internal use of the object

--you should not be calling them

EXAMPLE

tell application "PsyScript"

activate

begin experiment

set startingParameters to maxreversals:10, maxtrials:20, stepSize:4, initialDuration:40

set myStairCase to load script file ("" & Psyscript base folder & "libraries:stairCase library")

tell myStairCase to initialize(startingParameters)

set myStairCase to my createStairCase(startingParameters)

set goodResponse to "Z"

set completed to false

set myDuration to initialDuration of startingParameters

repeat while not completed

do trial "le + #100 !e 'duration = ?1 screen refreshes' !v?1 'Push 'z' to get this correct, any other to get it wrong' !t(2000)" given myDuration

if (subject response = goodResponse) then

set gradedResponse to 1

else

set `gradedResponse` to 0

end if

set `myDuration` to `update(gradedResponse)` of `myStairCase`

set `completed` to `completed()` of `myStairCase`

end repeat

display dialog "that took" & `trialCount` of `getRecord()` of `myStairCase`

end experiment

end tell

return `getRecord()` of `myStairCase`, `getParameters()` of `myStairCase`