

Defined Types

N3DProjectionType

DECLARED IN 3Dkit/next3d.h

SYNOPSIS typedef enum {
 N3D_Perspective,
 N3D_Orthographic
 } **N3DProjectionType**

DESCRIPTION Used to set and test the projection type of an N3DCamera.

N3DLightType

DECLARED IN 3Dkit/next3d.h

SYNOPSIS typedef enum {
 N3D_AmbientLight,
 N3D_PointLight,
 N3D_DistantLight,
 N3D_SpotLight
 } **N3DLightType**

DESCRIPTION Used to set and test the light type of an N3DLight.

N3DAxis

DECLARED IN 3Dkit/next3d.h

SYNOPSIS typedef enum {
 N3D_AllAxes,
 N3D_XAxis,
 N3D_YAxis,
 N3D_ZAxis,
 N3D_XYAxes,
 N3D_XZAxes,
 N3D_YZAxes
 } **N3DAxis**

DESCRIPTION Used to determine the combination of axes about which a matrix is rotated by N3DRotator objects.

N3DHider

DECLARED IN 3Dkit/next3d.h

SYNOPSIS typedef enum {
 N3D_HiddenRendering = 0,
 N3D_InOrderRendering,
 N3D_NoRendering
} **N3DHider**

DESCRIPTION Used to set the hider algorithm used by N3DCamera and N3DImageRep objects.

N3DShapeName

DECLARED IN 3Dkit/N3DShape.h

SYNOPSIS typedef struct {
 char **id**[6];
 char **name**;
} **N3DShapeName**

DESCRIPTION The name and id of the shape as character strings (used for picking shapes).

N3DSurfaceType

DECLARED IN 3Dkit/next3d.h

SYNOPSIS typedef enum {
 N3D_PointCloud = 0,
 N3D_WireFrame,
 N3D_ShadedWireFrame,
 N3D_FacetedSolids,
 N3D_SmoothSolids
} **N3DSurfaceType**

DESCRIPTION Used to set the surface type applied to N3DShape and N3DRIBImageRep objects.

SLOArgs

DECLARED IN 3Dkit/N3DShader.h

SYNOPSIS typedef struct {
 SLO_VISSYMDEF **symb**;
 union {
 float **fval**;
 RtPoint **pval**;
 NXColor **cval**;
 char ***sval**;
 } **value**;
} **SLOArgs**

DESCRIPTION The union that represents shader language function arguments.

Symbolic Constants

DECLARED IN 3Dkit/N3DShape.h

N3D_BOTH_CLEAN

DESCRIPTION These constants track the status of an N3DShape's composite transformation matrix and its inverse.

N3DIdentityMatrix

```
const RtMatrix N3DIdentityMatrix
```

```
{ {1, 0, 0, 0},
  {0, 1, 0, 0},
  {0, 0, 1, 0},
  {0, 0, 0, 1} }
```

SYNOPSIS

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| DESCRIPTION | Assigned the value $\{0, 0, 0\}$ when 3D Kit applications are initialized. |
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SYNOPSIS NXAtom N3DRIBPboardType

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| DESCRIPTION | Pasteboard for copying RIB data. |
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