



Gaffer Node Reference

image engine
version 0.100.0, 2014

Gaffer

Backdrop

A utility node which allows the positioning of other nodes on a coloured backdrop with optional text. Selecting a backdrop in the ui selects all the nodes positioned on it, and moving it moves them with it.

Plugs:

description

Gaffer::StringPlug

Text describing the contents of the backdrop - this will be displayed below the title.

scale

Gaffer::FloatPlug

Controls the size of the backdrop text.

title

Gaffer::StringPlug

The title for the backdrop - this will be displayed at the top of the backdrop.

Box

!!!EMPTY!!!

ContextVariablesComputeNode

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

variables

Gaffer::CompoundDataPlug

!!!EMPTY!!!

ExecutableOpHolder

!!!EMPTY!!!

Plugs:

dispatcher

Gaffer::CompoundPlug

!!!EMPTY!!!

batchSize

Gaffer::IntPlug

Maximum number of frames to batch together when dispatching execution tasks.

local

Gaffer::CompoundPlug

!!!EMPTY!!!

requirement

Gaffer::Plug

!!!EMPTY!!!

requirements

Gaffer::ArrayPlug

!!!EMPTY!!!

Expression

!!!EMPTY!!!

Plugs:

engine

Gaffer::StringPlug

!!!EMPTY!!!

expression

Gaffer::StringPlug

!!!EMPTY!!!

LocalDispatcher

!!!EMPTY!!!

Plugs:

executeInBackground

Gaffer::BoolPlug

Executes the dispatched tasks on a background thread.

frameRange

Gaffer::StringPlug

The frame range to be used when framesMode is set to CustomRange.

framesMode

Gaffer::IntPlug

Determines the active frame range for dispatching.

jobDirectory

Gaffer::StringPlug

A directory to store temporary files used by the dispatcher.

jobName

Gaffer::StringPlug

!!!EMPTY!!!

ObjectReader

!!!EMPTY!!!

Plugs:

fileName

Gaffer::StringPlug

!!!EMPTY!!!

out

Gaffer::ObjectPlug

!!!EMPTY!!!

ObjectWriter

!!!EMPTY!!!

Plugs:

dispatcher

Gaffer::CompoundPlug

!!!EMPTY!!!

batchSize

Gaffer::IntPlug

Maximum number of frames to batch together when dispatching execution tasks.

local

Gaffer::CompoundPlug

!!!EMPTY!!!

fileName

Gaffer::StringPlug

!!!EMPTY!!!

in

Gaffer::ObjectPlug

!!!EMPTY!!!

parameters

Gaffer::CompoundPlug

!!!EMPTY!!!

requirement

Gaffer::Plug

!!!EMPTY!!!

requirements

Gaffer::ArrayPlug

!!!EMPTY!!!

OpHolder

!!!EMPTY!!!

Plugs:

ParameterisedHolderDependencyNode

!!!EMPTY!!!

Plugs:

ParameterisedHolderNode

!!!EMPTY!!!

Plugs:

Preferences

!!!EMPTY!!!

ProceduralHolder

!!!EMPTY!!!

Plugs:

output

Gaffer::ObjectPlug

!!!EMPTY!!!

Random

!!!EMPTY!!!

Plugs:

baseColor

Gaffer::Color3fPlug

!!!EMPTY!!!

contextEntry

Gaffer::StringPlug

!!!EMPTY!!!

floatRange

Gaffer::V2fPlug

!!!EMPTY!!!

hue

Gaffer::FloatPlug

!!!EMPTY!!!

outColor

Gaffer::Color3fPlug

!!!EMPTY!!!

outFloat

Gaffer::FloatPlug

!!!EMPTY!!!

saturation

Gaffer::FloatPlug

!!!EMPTY!!!

seed

Gaffer::IntPlug

!!!EMPTY!!!

value

Gaffer::FloatPlug

!!!EMPTY!!!

Reference

!!!EMPTY!!!

Plugs:

fileName

Gaffer::StringPlug

!!!EMPTY!!!

ScriptNode

!!!EMPTY!!!

Plugs:

fileName

Gaffer::StringPlug

!!!EMPTY!!!

frameRange

Gaffer::CompoundPlug

!!!EMPTY!!!

unsavedChanges

Gaffer::BoolPlug

!!!EMPTY!!!

variables

Gaffer::CompoundDataPlug

!!!EMPTY!!!

SwitchComputeNode

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

index

Gaffer::IntPlug

!!!EMPTY!!!

TimeWarpComputeNode

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

offset

Gaffer::FloatPlug

!!!EMPTY!!!

speed

Gaffer::FloatPlug

!!!EMPTY!!!

GafferArnold

ArnoldAttributes

The base type for nodes that apply attributes to the scene.

Plugs:

attributes

Gaffer::CompoundDataPlug

The attributes to be applied - arbitrary numbers of user defined attributes may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

cameraVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

shadowVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

reflectedVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

refractedVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

diffuseVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

glossyVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

subdivIterations.value

Gaffer::IntPlug

!!!EMPTY!!!

subdivPixelError.value

Gaffer::FloatPlug

!!!EMPTY!!!

subdivAdaptiveMetric.value

Gaffer::StringPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

`Gaffer::IntPlug`

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

`GafferScene::ScenePlug`

The input scene.

out

`GafferScene::ScenePlug`

The processed output scene.

ArnoldLight

Creates a scene with a single light in it.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs an empty scene.

name

`Gaffer::StringPlug`

The name of the object in the output scene.

out

`GafferScene::ScenePlug`

The output scene.

parameters

`Gaffer::CompoundPlug`

The parameters of the light shader - these will vary based on the light type.

transform

`Gaffer::TransformPlug`

The transform applied to the object.

translate

`Gaffer::V3fPlug`

!!!EMPTY!!!

rotate

`Gaffer::V3fPlug`

!!!EMPTY!!!

scale

`Gaffer::V3fPlug`

!!!EMPTY!!!

pivot

`Gaffer::V3fPlug`

!!!EMPTY!!!

ArnoldOptions

The base type for nodes that apply options to the scene.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

`GafferScene::ScenePlug`

The input scene.

options

`Gaffer::CompoundDataPlug`

The options to be applied - arbitrary numbers of user defined options may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

aaSamples.value

`Gaffer::IntPlug`

!!!EMPTY!!!

giDiffuseSamples.value

`Gaffer::IntPlug`

!!!EMPTY!!!

giGlossySamples.value

`Gaffer::IntPlug`

!!!EMPTY!!!

giRefractionSamples.value

`Gaffer::IntPlug`

!!!EMPTY!!!

ignoreTextures.value

`Gaffer::BoolPlug`

!!!EMPTY!!!

ignoreShaders.value

`Gaffer::BoolPlug`

!!!EMPTY!!!

ignoreAtmosphere.value

`Gaffer::BoolPlug`

!!!EMPTY!!!

ignoreLights.value

`Gaffer::BoolPlug`

!!!EMPTY!!!

ignoreShadows.value

`Gaffer::BoolPlug`

!!!EMPTY!!!

ignoreSubdivision.value

Gaffer::BoolPlug

!!!EMPTY!!!

ignoreDisplacement.value

Gaffer::BoolPlug

!!!EMPTY!!!

ignoreBump.value

Gaffer::BoolPlug

!!!EMPTY!!!

ignoreMotionBlur.value

Gaffer::BoolPlug

!!!EMPTY!!!

ignoreSSS.value

Gaffer::BoolPlug

!!!EMPTY!!!

textureSearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

proceduralSearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

shaderSearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

errorColorBadTexture.value

Gaffer::Color3fPlug

!!!EMPTY!!!

errorColorBadMesh.value

Gaffer::Color3fPlug

!!!EMPTY!!!

errorColorBadPixel.value

Gaffer::Color3fPlug

!!!EMPTY!!!

errorColorBadShader.value

Gaffer::Color3fPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

ArnoldRender

!!!EMPTY!!!

Plugs:

dispatcher

Gaffer::CompoundPlug

!!!EMPTY!!!

batchSize

Gaffer::IntPlug

Maximum number of frames to batch together when dispatching execution tasks.

local

Gaffer::CompoundPlug

!!!EMPTY!!!

fileName

Gaffer::StringPlug

!!!EMPTY!!!

in

GafferScene::ScenePlug

!!!EMPTY!!!

mode

Gaffer::StringPlug

!!!EMPTY!!!

requirement

Gaffer::Plug

!!!EMPTY!!!

requirements

Gaffer::ArrayPlug

!!!EMPTY!!!

verbosity

Gaffer::IntPlug

!!!EMPTY!!!

ArnoldShader

The base type for all nodes which create shaders. Use the ShaderAssignment node to assign them to objects in the scene.

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

name

Gaffer::StringPlug

The name of the shader being represented. This should be considered read-only. Use the Shader.loadShader() method to load a shader.

parameters

Gaffer::CompoundPlug

Where the parameters for the shader are represented.

type

Gaffer::StringPlug

!!!EMPTY!!!

GafferImage

Clamp

!!!EMPTY!!!

Plugs:

channels

GafferImage::ChannelMaskPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

max

Gaffer::Color4fPlug

!!!EMPTY!!!

maxClampTo

Gaffer::Color4fPlug

!!!EMPTY!!!

maxClampToEnabled

Gaffer::BoolPlug

!!!EMPTY!!!

maxEnabled

Gaffer::BoolPlug

!!!EMPTY!!!

min

Gaffer::Color4fPlug

!!!EMPTY!!!

minClampTo

Gaffer::Color4fPlug

!!!EMPTY!!!

minClampToEnabled

Gaffer::BoolPlug

!!!EMPTY!!!

minEnabled

Gaffer::BoolPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

Constant

!!!EMPTY!!!

Plugs:

color

Gaffer::Color4fPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

format

GafferImage::FormatPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

Display

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

port

Gaffer::IntPlug

!!!EMPTY!!!

Grade

!!!EMPTY!!!

Plugs:

blackClamp

Gaffer::BoolPlug

!!!EMPTY!!!

blackPoint

Gaffer::Color3fPlug

!!!EMPTY!!!

channels

GafferImage::ChannelMaskPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

gain

Gaffer::Color3fPlug

!!!EMPTY!!!

gamma

Gaffer::Color3fPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

lift

Gaffer::Color3fPlug

!!!EMPTY!!!

multiply

Gaffer::Color3fPlug

!!!EMPTY!!!

offset

Gaffer::Color3fPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

whiteClamp

Gaffer::BoolPlug

!!!EMPTY!!!

whitePoint

Gaffer::Color3fPlug

!!!EMPTY!!!

ImageContextVariables

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

variables

Gaffer::CompoundDataPlug

!!!EMPTY!!!

ImageReader

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

fileName

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

ImageSampler

!!!EMPTY!!!

Plugs:

color

Gaffer::Color4fPlug

!!!EMPTY!!!

filter

GafferImage::FilterPlug

!!!EMPTY!!!

image

GafferImage::ImagePlug

!!!EMPTY!!!

pixel

Gaffer::V2fPlug

!!!EMPTY!!!

ImageStats

!!!EMPTY!!!

Plugs:

average

Gaffer::Color4fPlug

!!!EMPTY!!!

channels

GafferImage::ChannelMaskPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

max

Gaffer::Color4fPlug

!!!EMPTY!!!

min

Gaffer::Color4fPlug

!!!EMPTY!!!

regionOfInterest

Gaffer::Box2iPlug

!!!EMPTY!!!

ImageSwitch

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

index

Gaffer::IntPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

ImageTimeWarp

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

offset

Gaffer::FloatPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

speed

Gaffer::FloatPlug

!!!EMPTY!!!

ImageTransform

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

filter

GafferImage::FilterPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

transform

Gaffer::Transform2DPlug

!!!EMPTY!!!

translate

Gaffer::V2fPlug

!!!EMPTY!!!

x

Gaffer::FloatPlug

!!!EMPTY!!!

y

Gaffer::FloatPlug

!!!EMPTY!!!

rotate

Gaffer::FloatPlug

!!!EMPTY!!!

scale

Gaffer::V2fPlug

!!!EMPTY!!!

x

Gaffer::FloatPlug

!!!EMPTY!!!

y

Gaffer::FloatPlug

!!!EMPTY!!!

pivot

Gaffer::V2fPlug

!!!EMPTY!!!

x

Gaffer::FloatPlug

!!!EMPTY!!!

y

Gaffer::FloatPlug

!!!EMPTY!!!

ImageWriter

!!!EMPTY!!!

Plugs:

channels

GafferImage::ChannelMaskPlug

!!!EMPTY!!!

dispatcher

Gaffer::CompoundPlug

!!!EMPTY!!!

batchSize

Gaffer::IntPlug

Maximum number of frames to batch together when dispatching execution tasks.

local

Gaffer::CompoundPlug

!!!EMPTY!!!

fileName

Gaffer::StringPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

requirement

Gaffer::Plug

!!!EMPTY!!!

requirements

Gaffer::ArrayPlug

!!!EMPTY!!!

writeMode

Gaffer::IntPlug

!!!EMPTY!!!

Merge

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

in1

GafferImage::ImagePlug

!!!EMPTY!!!

operation

Gaffer::IntPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

ObjectToImage

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

object

Gaffer::ObjectPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

OpenColorIO

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

inputSpace

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

outputSpace

Gaffer::StringPlug

!!!EMPTY!!!

Reformat

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

filter

GafferImage::FilterPlug

!!!EMPTY!!!

format

GafferImage::FormatPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

RemoveChannels

!!!EMPTY!!!

Plugs:

channels

GafferImage::ChannelMaskPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

mode

Gaffer::IntPlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

Select

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

in1

GafferImage::ImagePlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

select

Gaffer::IntPlug

!!!EMPTY!!!

GafferOSL

OSLImage

Executes OSL shaders to perform image processing.

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

GafferImage::ImagePlug

!!!EMPTY!!!

out

GafferImage::ImagePlug

!!!EMPTY!!!

shader

Gaffer::Plug

The shader to be executed - connect the output from an OSL network here.

OSLObject

Executes OSL shaders to perform object processing.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

shader

Gaffer::Plug

The shader to be executed - connect the output from an OSL network here.

OSLShader

Represents OSL shaders.

Plugs:

enabled

`Gaffer::BoolPlug`

!!!EMPTY!!!

name

`Gaffer::StringPlug`

The name of the shader being represented. This should be considered read-only. Use the `Shader.loadShader()` method to load a shader.

parameters

`Gaffer::CompoundPlug`

Where the parameters for the shader are represented.

type

`Gaffer::StringPlug`

!!!EMPTY!!!

GafferRenderMan

InteractiveRenderManRender

A base class for nodes which can render scenes interactively, updating the render to reflect changes to the node graph.

Plugs:

in

GafferScene::ScenePlug

!!!EMPTY!!!

state

Gaffer::IntPlug

The interactive state.

updateCamera

Gaffer::BoolPlug

!!!EMPTY!!!

updateCoordinateSystems

Gaffer::BoolPlug

!!!EMPTY!!!

updateLights

Gaffer::BoolPlug

When on, changes to lights are reflected in the interactive render.

updateShaders

Gaffer::BoolPlug

!!!EMPTY!!!

RenderManAttributes

The base type for nodes that apply attributes to the scene.

Plugs:

attributes

Gaffer::CompoundDataPlug

The attributes to be applied - arbitrary numbers of user defined attributes may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

cameraVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

cameraHitMode.value

Gaffer::StringPlug

!!!EMPTY!!!

transmissionVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

transmissionHitMode.value

Gaffer::StringPlug

!!!EMPTY!!!

diffuseVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

diffuseHitMode.value

Gaffer::StringPlug

!!!EMPTY!!!

specularVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

specularHitMode.value

Gaffer::StringPlug

!!!EMPTY!!!

photonVisibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

photonHitMode.value

Gaffer::StringPlug

!!!EMPTY!!!

shadingRate.value

Gaffer::FloatPlug

!!!EMPTY!!!

relativeShadingRate.value

Gaffer::FloatPlug

!!!EMPTY!!!

matte.value

Gaffer::BoolPlug

!!!EMPTY!!!

displacementBound.value

Gaffer::FloatPlug

!!!EMPTY!!!

maxDiffuseDepth.value

Gaffer::IntPlug

!!!EMPTY!!!

maxSpecularDepth.value

Gaffer::IntPlug

!!!EMPTY!!!

traceDisplacements.value

Gaffer::BoolPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

RenderManLight

Creates a scene with a single light in it.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

name

Gaffer::StringPlug

The name of the object in the output scene.

out

GafferScene::ScenePlug

The output scene.

parameters

Gaffer::CompoundPlug

The parameters of the light shader - these will vary based on the light type.

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

RenderManOptions

The base type for nodes that apply options to the scene.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

options

Gaffer::CompoundDataPlug

The options to be applied - arbitrary numbers of user defined options may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

pixelSamples.value

Gaffer::V2iPlug

!!!EMPTY!!!

hider.value

Gaffer::StringPlug

!!!EMPTY!!!

hiderDepthFilter.value

Gaffer::StringPlug

!!!EMPTY!!!

hiderJitter.value

Gaffer::BoolPlug

!!!EMPTY!!!

hiderSampleMotion.value

Gaffer::BoolPlug

!!!EMPTY!!!

hiderExtremeMotionDOF.value

Gaffer::BoolPlug

!!!EMPTY!!!

hiderProgressive.value

Gaffer::BoolPlug

!!!EMPTY!!!

statisticsLevel.value

Gaffer::IntPlug

!!!EMPTY!!!

statisticsFileName.value

Gaffer::StringPlug

!!!EMPTY!!!

statisticsProgress.value

Gaffer::BoolPlug

!!!EMPTY!!!

shaderSearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

textureSearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

displaySearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

archiveSearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

proceduralSearchPath.value

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

RenderManRender

!!!EMPTY!!!

Plugs:**dispatcher**

Gaffer::CompoundPlug

!!!EMPTY!!!

batchSize

Gaffer::IntPlug

Maximum number of frames to batch together when dispatching execution tasks.

local

Gaffer::CompoundPlug
!!!EMPTY!!!

in

GafferScene::ScenePlug
!!!EMPTY!!!

mode

Gaffer::StringPlug
!!!EMPTY!!!

requirement

Gaffer::Plug
!!!EMPTY!!!

requirements

Gaffer::ArrayPlug
!!!EMPTY!!!

ribFileName

Gaffer::StringPlug
!!!EMPTY!!!

RenderManShader

Loads shaders for use in RenderMan renderers. Use the ShaderAssignment node to assign shaders to objects in the scene.

Plugs:

enabled

Gaffer::BoolPlug
!!!EMPTY!!!

name

Gaffer::StringPlug

The name of the shader being represented. This should be considered read-only. Use the Shader.loadShader() method to load a shader.

out

Gaffer::Plug
!!!EMPTY!!!

parameters

Gaffer::CompoundPlug

Where the parameters for the shader are represented.

type

Gaffer::StringPlug
!!!EMPTY!!!

GafferScene

AimConstraint

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

aim

Gaffer::V3fPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

target

Gaffer::StringPlug

!!!EMPTY!!!

targetMode

Gaffer::IntPlug

!!!EMPTY!!!

targetOffset

Gaffer::V3fPlug

!!!EMPTY!!!

up

Gaffer::V3fPlug

!!!EMPTY!!!

AlembicSource

The base type for all nodes which are capable of generating a hierarchical scene.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

fileName

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The output scene.

refreshCount

Gaffer::IntPlug

!!!EMPTY!!!

AttributeCache

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

fileName

Gaffer::StringPlug

!!!EMPTY!!!

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

Camera

A node which produces scenes with exactly one object in them.

Plugs:

clippingPlanes

Gaffer::V2fPlug

!!!EMPTY!!!

x

Gaffer::FloatPlug

!!!EMPTY!!!

y

Gaffer::FloatPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

fieldOfView

Gaffer::FloatPlug

!!!EMPTY!!!

name

Gaffer::StringPlug

The name of the object in the output scene.

out

GafferScene::ScenePlug

The output scene.

projection

Gaffer::StringPlug

!!!EMPTY!!!

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

CoordinateSystem

A node which produces scenes with exactly one object in them.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

name

Gaffer::StringPlug

The name of the object in the output scene.

out

GafferScene::ScenePlug

The output scene.

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

Cube

A node which produces scenes containing a cube.

Plugs:**dimensions**

Gaffer::V3fPlug

Controls size of the cube.

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

name

Gaffer::StringPlug

The name of the object in the output scene.

out

GafferScene::ScenePlug

The output scene.

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

CustomAttributes

Applies arbitrary user-defined attributes to locations in the scene. Note that for most common cases the StandardAttributes, OpenGLAttributes, RenderManAttributes, and ArnoldAttributes nodes should be used in preference - they provide predefined sets of attributes with customised user interfaces. The CustomAttributes node is of most use when needing to set a custom attribute not supported by the specialised nodes.

Plugs:

attributes

Gaffer::CompoundDataPlug

The attributes to be applied - arbitrary numbers of user defined attributes may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

CustomOptions

Applies arbitrary user-defined options to the root of the scene. Note that for most common cases the StandardOptions, OpenGLOptions, RenderManOptions, and ArnoldOptions nodes should be used in preference - they provide predefined sets of options with customised user interfaces. The CustomOptions node is of most use when needing to set a custom option not supported by the specialised nodes.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

`GafferScene::ScenePlug`

The input scene.

options

`Gaffer::CompoundDataPlug`

The options to be applied - arbitrary numbers of user defined options may be added as children of this plug via the user interface, or using the `CompoundDataPlug` API via python.

out

`GafferScene::ScenePlug`

The processed output scene.

DeleteAttributes

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

`Gaffer::IntPlug`

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

`GafferScene::ScenePlug`

The input scene.

invertNames

`Gaffer::BoolPlug`

!!!EMPTY!!!

names

`Gaffer::StringPlug`

!!!EMPTY!!!

out

`GafferScene::ScenePlug`

The processed output scene.

DeletePrimitiveVariables

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

invertNames

Gaffer::BoolPlug

!!!EMPTY!!!

names

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

Displays

The base type for all nodes which take an input scene and process it in some way.

Plugs:

displays

Gaffer::CompoundPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

Duplicate

Duplicates elements of a scene.

Plugs:

copies

Gaffer::IntPlug

The number of copies to be made.

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

parent

Gaffer::StringPlug

!!!EMPTY!!!

target

Gaffer::StringPlug

The element to be duplicated.

transform

Gaffer::TransformPlug

The transform to be applied to the copies.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

FreezeTransform

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:**enabled**

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

Grid

A grid.

Plugs:

borderColor

Gaffer::Color3fPlug

!!!EMPTY!!!

borderPixelWidth

Gaffer::FloatPlug

!!!EMPTY!!!

centerColor

Gaffer::Color3fPlug

!!!EMPTY!!!

centerPixelWidth

Gaffer::FloatPlug

!!!EMPTY!!!

dimensions

Gaffer::V2fPlug

!!!EMPTY!!!

x

Gaffer::FloatPlug

!!!EMPTY!!!

y

Gaffer::FloatPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

gridColor

Gaffer::Color3fPlug

!!!EMPTY!!!

gridPixelWidth

Gaffer::FloatPlug

!!!EMPTY!!!

name

Gaffer::StringPlug

The name of the grid.

out

GafferScene::ScenePlug

The output scene.

spacing

Gaffer::FloatPlug

!!!EMPTY!!!

transform

Gaffer::TransformPlug

The transform applied to the grid.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

Group

The base type for all nodes which take an input scene and process it in some way.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

name

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

transform

Gaffer::TransformPlug

!!!EMPTY!!!

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

Instancer

The base type for all nodes which take an input scene and process it in some way.

Plugs:**enabled**

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

instance

GafferScene::ScenePlug

!!!EMPTY!!!

name

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

parent

Gaffer::StringPlug

!!!EMPTY!!!

Isolate

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

adjustBounds

Gaffer::BoolPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

MapOffset

Adds an offset to object texture coordinates. Provides a convenient way of looking at specific texture UDIMs.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

offset

Gaffer::V2fPlug

An offset added to the texture coordinates. Note that moving the texture coordinates in the positive direction will move the texture in the negative direction.

x

Gaffer::FloatPlug

!!!EMPTY!!!

y

Gaffer::FloatPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

sName

Gaffer::StringPlug

The name of the primitive variable holding the s coordinate.

tName

Gaffer::StringPlug

The name of the primitive variable holding the t coordinate.

udim

Gaffer::IntPlug

A specific UDIM to offset the texture coordinates to. The UDIM is converted to an offset which is added to the offset above.

MapProjection

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

camera

Gaffer::StringPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

sName

Gaffer::StringPlug

!!!EMPTY!!!

tName

Gaffer::StringPlug

!!!EMPTY!!!

MeshType

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

calculatePolygonNormals

Gaffer::BoolPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

meshType

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

overwriteExistingNormals

Gaffer::BoolPlug

!!!EMPTY!!!

ObjectToScene

A node which produces scenes with exactly one object in them.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

name

Gaffer::StringPlug

The name of the object in the output scene.

object

Gaffer::ObjectPlug

!!!EMPTY!!!

out

Gaffer::ScenePlug

The output scene.

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

OpenGLAttributes

The base type for nodes that apply attributes to the scene.

Plugs:

attributes

Gaffer::CompoundDataPlug

The attributes to be applied - arbitrary numbers of user defined attributes may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

primitiveSolid.value

Gaffer::BoolPlug

!!!EMPTY!!!

primitiveWireframe.value

Gaffer::BoolPlug

!!!EMPTY!!!

primitiveWireframeColor.value

Gaffer::Color4fPlug

!!!EMPTY!!!

primitiveWireframeWidth.value

Gaffer::FloatPlug

!!!EMPTY!!!

primitiveOutline.value

Gaffer::BoolPlug

!!!EMPTY!!!

primitiveOutlineColor.value

Gaffer::Color4fPlug

!!!EMPTY!!!

primitiveOutlineWidth.value

Gaffer::FloatPlug

!!!EMPTY!!!

primitivePoint.value

Gaffer::BoolPlug

!!!EMPTY!!!

primitivePointColor.value

Gaffer::Color4fPlug

!!!EMPTY!!!

primitivePointWidth.value

Gaffer::FloatPlug

!!!EMPTY!!!

primitiveBound.value

Gaffer::BoolPlug

!!!EMPTY!!!

primitiveBoundColor.value

Gaffer::Color4fPlug

!!!EMPTY!!!

pointsPrimitiveUseGLPoints.value

Gaffer::StringPlug

!!!EMPTY!!!

pointsPrimitiveGLPointWidth.value

Gaffer::FloatPlug

!!!EMPTY!!!

curvesPrimitiveUseGLLines.value

Gaffer::BoolPlug

!!!EMPTY!!!

curvesPrimitiveGLLineWidth.value

Gaffer::FloatPlug

!!!EMPTY!!!

curvesPrimitiveIgnoreBasis.value

Gaffer::BoolPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

OpenGLRender

!!!EMPTY!!!

Plugs:

dispatcher

Gaffer::CompoundPlug

!!!EMPTY!!!

batchSize

Gaffer::IntPlug

Maximum number of frames to batch together when dispatching execution tasks.

local

Gaffer::CompoundPlug

!!!EMPTY!!!

in

GafferScene::ScenePlug

!!!EMPTY!!!

requirement

Gaffer::Plug

!!!EMPTY!!!

requirements

Gaffer::ArrayPlug

!!!EMPTY!!!

OpenGLShader

The base type for all nodes which create shaders. Use the ShaderAssignment node to assign them to objects in the scene.

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

name

Gaffer::StringPlug

The name of the shader being represented. This should be considered read-only. Use the Shader.loadShader() method to load a shader.

out

Gaffer::Plug

!!!EMPTY!!!

parameters

Gaffer::CompoundPlug

Where the parameters for the shader are represented.

type

Gaffer::StringPlug

!!!EMPTY!!!

Parent

Parents one scene hierarchy into another.

Plugs:**child**

GafferScene::ScenePlug

The child hierarchy to be parented.

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

parent

Gaffer::StringPlug

!!!EMPTY!!!

ParentConstraint

Constrains objects from one part of the scene hierarchy as if they were children of another part of the hierarchy.

Plugs:**enabled**

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

relativeTransform

Gaffer::TransformPlug

Transforms the constrained object relative to the target location.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

target

Gaffer::StringPlug

!!!EMPTY!!!

targetMode

Gaffer::IntPlug

!!!EMPTY!!!

targetOffset

Gaffer::V3fPlug

!!!EMPTY!!!

PathFilter

!!!EMPTY!!!

Plugs:

match

Gaffer::IntPlug

!!!EMPTY!!!

paths

Gaffer::StringVectorDataPlug

!!!EMPTY!!!

Plane

A node which produces scenes containing a plane.

Plugs:

dimensions

Gaffer::V2fPlug

Controls size of the plane in X and Y.

x

Gaffer::FloatPlug

!!!EMPTY!!!

y

Gaffer::FloatPlug

!!!EMPTY!!!

divisions

Gaffer::V2iPlug

Controls tessellation of the plane.

x

Gaffer::IntPlug

!!!EMPTY!!!

y

Gaffer::IntPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

name

Gaffer::StringPlug

The name of the object in the output scene.

out

GafferScene::ScenePlug

The output scene.

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

PointConstraint

The base type for scene processors which use a Filter node to control which part of the scene is affected.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

offset

Gaffer::V3fPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

target

Gaffer::StringPlug

!!!EMPTY!!!

targetMode

Gaffer::IntPlug

!!!EMPTY!!!

targetOffset

Gaffer::V3fPlug

!!!EMPTY!!!

xEnabled

Gaffer::BoolPlug

!!!EMPTY!!!

yEnabled

Gaffer::BoolPlug

!!!EMPTY!!!

zEnabled

Gaffer::BoolPlug

!!!EMPTY!!!

PrimitiveVariables

Adds arbitrary primitive variables to objects. Currently only primitive variables with constant interpolation are supported - see the OSLObject node for a means of creating variables with vertex interpolation.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

primitiveVariables

Gaffer::CompoundDataPlug

The primitive variables to be applied - arbitrary numbers of user defined primitive variables may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

Prune

A node for removing whole branches from the scene hierarchy.

Plugs:

adjustBounds

Gaffer::BoolPlug

Computes new tightened bounding boxes taking into account the removed locations. This can be an expensive operation - turn on with care.

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The branches to prune. The specified locations and all locations below them will be removed from the scene.

in

`GafferScene::ScenePlug`

The input scene.

out

`GafferScene::ScenePlug`

The processed output scene.

SceneContextVariables

The base type for all nodes which take an input scene and process it in some way.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

`GafferScene::ScenePlug`

The input scene.

out

`GafferScene::ScenePlug`

The processed output scene.

variables

`Gaffer::CompoundDataPlug`

!!!EMPTY!!!

SceneReader

Reads scenes in any of the formats supported by Cortex's SceneInterface.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs an empty scene.

fileName

`Gaffer::StringPlug`

!!!EMPTY!!!

out

`GafferScene::ScenePlug`

The output scene.

refreshCount

`Gaffer::IntPlug`

!!!EMPTY!!!

sets

`Gaffer::StringPlug`

Specifies a list of tags to be loaded and converted into gaffer sets.

tags

`Gaffer::StringPlug`

Limits the parts of the scene loaded to only those with a specific set of tags.

SceneSwitch

The base type for all nodes which take an input scene and process it in some way.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

`GafferScene::ScenePlug`

The input scene.

index

`Gaffer::IntPlug`

!!!EMPTY!!!

out

`GafferScene::ScenePlug`

The processed output scene.

SceneTimeWarp

The base type for all nodes which take an input scene and process it in some way.

Plugs:

enabled

`Gaffer::BoolPlug`

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

`GafferScene::ScenePlug`

The input scene.

offset

`Gaffer::FloatPlug`

!!!EMPTY!!!

out

`GafferScene::ScenePlug`

The processed output scene.

speed

Gaffer::FloatPlug

!!!EMPTY!!!

SceneWriter

!!!EMPTY!!!

Plugs:

dispatcher

Gaffer::CompoundPlug

!!!EMPTY!!!

batchSize

Gaffer::IntPlug

Maximum number of frames to batch together when dispatching execution tasks.

local

Gaffer::CompoundPlug

!!!EMPTY!!!

fileName

Gaffer::StringPlug

!!!EMPTY!!!

in

GafferScene::ScenePlug

!!!EMPTY!!!

requirement

Gaffer::Plug

!!!EMPTY!!!

requirements

Gaffer::ArrayPlug

!!!EMPTY!!!

Seeds

The base type for all nodes which take an input scene and process it in some way.

Plugs:

density

Gaffer::FloatPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

name

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

parent

Gaffer::StringPlug

!!!EMPTY!!!

pointType

Gaffer::StringPlug

!!!EMPTY!!!

Set

The base type for all nodes which take an input scene and process it in some way.

Plugs:**enabled**

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

name

Gaffer::StringPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

paths

Gaffer::StringVectorDataPlug

!!!EMPTY!!!

SetFilter

A filter which uses sets to define which locations are matched.

Plugs:

match

Gaffer::IntPlug

!!!EMPTY!!!

set

Gaffer::StringPlug

The name of a set that defines the locations to be matched.

ShaderAssignment

Assigns shaders to objects.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

shader

Gaffer::Plug

The shader to be assigned.

ShaderSwitch

!!!EMPTY!!!

Plugs:

enabled

Gaffer::BoolPlug

!!!EMPTY!!!

in

Gaffer::Plug

!!!EMPTY!!!

index

Gaffer::IntPlug

!!!EMPTY!!!

out

Gaffer::Plug

!!!EMPTY!!!

Sphere

A node which produces scenes containing a sphere.

Plugs:

divisions

Gaffer::V2iPlug

Controls tessellation of the sphere when type is Mesh.

x

Gaffer::IntPlug

!!!EMPTY!!!

y

Gaffer::IntPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

name

Gaffer::StringPlug

The name of the object in the output scene.

out

GafferScene::ScenePlug

The output scene.

radius

Gaffer::FloatPlug

Radius of the sphere.

thetaMax

Gaffer::FloatPlug

Limits the extent of the sphere around the pole axis. Valid values are in the range [0,360].

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

type

Gaffer::IntPlug

The type of object to produce. May be a SpherePrimitive or a Mesh.

zMax

Gaffer::FloatPlug

Limits the extent of the sphere along the upper pole. Valid values are in the range [-1,1] and should always be greater than zMin.

zMin

Gaffer::FloatPlug

Limits the extent of the sphere along the lower pole. Valid values are in the range [-1,1] and should always be less than zMax.

StandardAttributes

The base type for nodes that apply attributes to the scene.

Plugs:

attributes

Gaffer::CompoundDataPlug

The attributes to be applied - arbitrary numbers of user defined attributes may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

visibility.value

Gaffer::BoolPlug

!!!EMPTY!!!

doubleSided.value

Gaffer::BoolPlug

!!!EMPTY!!!

transformBlur.value

Gaffer::BoolPlug

!!!EMPTY!!!

transformBlurSegments.value

Gaffer::IntPlug

!!!EMPTY!!!

deformationBlur.value

Gaffer::BoolPlug

!!!EMPTY!!!

deformationBlurSegments.value

Gaffer::IntPlug

!!!EMPTY!!!

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

StandardOptions

The base type for nodes that apply options to the scene.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

options

Gaffer::CompoundDataPlug

The options to be applied - arbitrary numbers of user defined options may be added as children of this plug via the user interface, or using the CompoundDataPlug API via python.

renderCamera.value

Gaffer::StringPlug

!!!EMPTY!!!

renderResolution.value

Gaffer::V2iPlug

!!!EMPTY!!!

renderCropWindow.value

Gaffer::Box2fPlug

!!!EMPTY!!!

cameraBlur.value

Gaffer::BoolPlug

!!!EMPTY!!!

transformBlur.value

Gaffer::BoolPlug

!!!EMPTY!!!

deformationBlur.value

Gaffer::BoolPlug

!!!EMPTY!!!

shutter.value

Gaffer::V2fPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

SubTree

A node for extracting a specific branch from a scene.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

in

GafferScene::ScenePlug

The input scene.

includeRoot

Gaffer::BoolPlug

!!!EMPTY!!!

out

GafferScene::ScenePlug

The processed output scene.

root

Gaffer::StringPlug

The location to become the new root for the output scene. All locations below this will be kept, and all others will be discarded.

Text

A node which produces scenes with exactly one object in them.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs an empty scene.

font

Gaffer::StringPlug

!!!EMPTY!!!

name

Gaffer::StringPlug

The name of the object in the output scene.

out

GafferScene::ScenePlug

The output scene.

text

Gaffer::StringPlug

!!!EMPTY!!!

transform

Gaffer::TransformPlug

The transform applied to the object.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

Transform

Modifies the transforms of all locations matched by the filter.

Plugs:

enabled

Gaffer::BoolPlug

The on/off state of the node. When it is off, the node outputs the input scene unchanged.

filter

Gaffer::IntPlug

The filter used to control which parts of the scene are processed. A Filter node should be connected here.

in

GafferScene::ScenePlug

The input scene.

out

GafferScene::ScenePlug

The processed output scene.

space

Gaffer::IntPlug

The space in which the transform is applied.

transform

Gaffer::TransformPlug

The transform to be applied.

translate

Gaffer::V3fPlug

!!!EMPTY!!!

rotate

Gaffer::V3fPlug

!!!EMPTY!!!

scale

Gaffer::V3fPlug

!!!EMPTY!!!

pivot

Gaffer::V3fPlug

!!!EMPTY!!!

UnionFilter

!!!EMPTY!!!

Plugs:

in

Gaffer::ArrayPlug

!!!EMPTY!!!

match

Gaffer::IntPlug

!!!EMPTY!!!

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