

Duik

//TODO explications low level, mid level, high level des méthodes

Attributes

string *Duik.version*

float *Duik.versionNumber*

boolean *Duik.forceReload*

Name	Type	Description
<i>version</i>	string, read-only	Version string of libDuik
<i>versionNumber</i>	float, read-only	Version number of libDuik
<i>forceReload</i>	boolean, read-only during run time	<p>When true, forces libDuik to be reloaded each time it is included in a script.</p> <p>When false, libDuik loads only on first run and then stays available until After Effects is shut down.</p> <p>This attribute should not be changed, unless you're editing libDuik.jsxinc itself and you need to do some testing and reload it without shutting down After Effects.</p> <p>To speed up launching of your scripts even at first launch, instead of including <i>libDuik.jsxinc</i>, you can copy it in the <i>Startup</i> subfolder of the <i>Scripts</i> folder of After Effects, and rename it to <i>libDuik.jsx</i>. This way, libDuik will be available to all scripts without <i>#include</i> macro.</p> <p>This attribute must be set by directly by editing libDuik.jsxinc to work.</p>

Classes

Duik.uiString

Duik.settings

Duik.utils

Name	Description
<i>uiStrings</i>	Contains all string names used by effects created by Duik. You can set these strings to translate libDuik at runtime. Default values are English names.
<i>settings</i>	Access to settings used by Duik.
<i>utils</i>	Some useful tools

Methods

//TODO tri par level

Low-level methods are listed below (greyed) but they are not documented.

If you do not understand what low-level methods do by reading them in *libDuik.jsxinc*, you shouldn't need them.

Duik.addIK(controller, layer1, layer2, layer3, goal, clockWise, threeD, frontFacing)

Duik.addGoal(layer, controller)

Duik.addController(layer)

Duik.addControllers(layers)

Duik.addOneLayerIK(controller, layer)

Duik.addTwoLayerIK(threeD, controller, root, end, clockWise, frontFacing)

Duik.addWiggle(layer, property, all, x, y, z)

Duik.add3DWiggle(layer, property, x, y, z)

Duik.add2DWiggle(layer, property, x, y)

Duik.add1DWiggle(layer, property)

Name	Description	Return	Level
<i>addIK(controller, layer1, layer2, layer3, goal, clockWise, threeD, frontFacing)</i>	Adds IK on the layers	true if successful, false if anything went wrong	mid
<i>addGoal(layer, controller)</i>	Adds a goal effect to the layer, which may be controlled by a controller	true if successful, false if anything went wrong	mid
<i>addController(layer)</i>	Creates a null object (controller) at layer position and named by layer.name	AVLayer; controller	mid
<i>addControllers(layers)</i>	For each layer, Creates a null object (controller) at layer position and named by layer.name	Array of AVLayer; controllers	High
<i>addWiggle(layer, property, all, x, y, z)</i>	Adds a wiggle effect to given property	true if successful, false if anything went wrong	mid

Duik.addIK(controller, layer1, layer2, layer3, goal, clockWise, threeD, frontFacing)

mid-level method.

Adds IK on the layers

parameters:

controller | AVLayer

layer1 | AVLayer

layer2 | AVLayer or undefined

layer3 | AVLayer or undefined

goal | AVLayer or undefined
clockWise | boolean, used only with two-layer and three-layer IK, default: false
threeD | boolean, works only with two-layer IK, default: false
frontFacing | boolean, default: false

returns

true if successful, false if anything went wrong

Duik.addGoal(layer, controller)

mid-level method.

Adds a goal effect to the layer, which may be controlled by a controller

parameters:

layer | AVLayer
controller | AVLayer or undefined

returns

true if successful, false if anything went wrong

Duik.addController(layer)

mid-level method.

Creates a null object (controller) at layer position and named by layer.name

parameters

layer | AVLayer

returns

AVLayer controller

Duik.addControllers(layers)

high-level method.

For each layer,
Creates a null object (controller) at layer position and named by layer.name

parameters

layers | Array of AVLayer

returns

Array of AVLayer controllers

//TODO A COMPLETER

Duik.uiStrings

Contains all string names used by effects created by Duik.
You can set these strings to translate libDuik at runtime.
Default values are English names.

Attributes

```
Duik.uiStrings.ikFkBox  
Duik.uiStrings.reverseBox  
Duik.uiStrings.fkAngle  
Duik.uiStrings.rootFkAngle  
Duik.uiStrings.endFkAngle  
Duik.uiStrings.goalFkAngle  
Duik.uiStrings.weightSlider  
Duik.uiStrings.xAmp = "X Amp.";  
Duik.uiStrings.xFreq = "X Freq.";  
Duik.uiStrings.yAmp = "Y Amp.";  
Duik.uiStrings.yFreq = "Y Freq.";  
Duik.uiStrings.zAmp = "Z Amp.";  
Duik.uiStrings.zFreq = "Z Freq.";  
Duik.uiStrings.amp = "Amp.";  
Duik.uiStrings.freq = "Freq.";
```

Name	Type	Description
<i>ikFkBox</i>	string	"IK / FK"
<i>reverseBox</i>	string	"Reverse"
<i>fkAngle</i>	string	"FK"
<i>rootFkAngle</i>	string	"Root FK"
<i>endFkAngle</i>	string	"End FK"
<i>goalFkAngle</i>	string	"Goal FK"
<i>weightSlider</i>	string	"LookAt Weight"
<i>xAmp</i>	string	"X Amp."
<i>xFreq</i>	string	"X Freq."
<i>yAmp</i>	string	"Y Amp."
<i>yFreq</i>	string	"Y Freq."
<i>zAmp</i>	string	"Z Amp."
<i>zFreq</i>	string	"Z Freq."
<i>amp</i>	string	"Amp."
<i>freq</i>	string	"Freq."

Duik.settings

Access to settings used by Duik.

Attributes

Duik.settings.controllerSize

Duik.settings.controllerSizeAuto

Duik.settings.controllerSizeHint

Name	Type	Description	Default
<i>controllerSize</i>	integer	Size of controllers in pixels	100
<i>controllerSizeAuto</i>	boolean	If true, controller sizes will be automatically adapted to comp size, according to <i>Duik.settings.controllerSizeHint</i>	true
<i>controllerSizeHint</i>	integer	when controllerSizeAuto is true, 0 = small, 1 = medium, 2 = big	1

Duik.utils

Some useful methods.

Methods

Duik.utils.prepareProperty(property,isFX,index,depth,parentName)

Name	Description	Return
<i>prepareProperty(property, isFX, index, depth, parentName)</i>	Prepare property to be rigged	true if property can set expression, false otherwise

Duik.prepareProperty(property,isFX,index,depth,parentName)

Prepare the given property to be rigged.

isFX, index, depth, parentName will be filled by the method with the values corresponding to this property.

parameters:

property | Property
isFX | boolean
index | integer
depth | integer
parentName | string

returns

true if property can set expression, false otherwise