HLMS Editor Cheat Sheet

Main window

File Materials Textures Painting Tools Window

Action	Command
Generate HLMS	F5

<u>F</u> ile	Command
New Project	Ctrl + Shift + N
New Hlms Pbs	Ctrl + Alt + N
New Hlms Unlit	Ctrl + N
Open Project	Ctrl + Shift + O
Open Hlms	Ctrl + Alt + O
Open Mesh	Ctrl + O
Save Project	Ctrl + Shift + S
Save Hlms	Ctrl + Alt + S
Save Project as	Ctrl + Shift + A
Save Hlms as	Ctrl + Alt + A
Save Mesh as	Ctrl + A
Export Material browser to zip	-
Export Current project to zip	-
Import HLMS Editor project from zip	-
Import 3D models	-
Quit	Ctrl + Q

<u>M</u> aterials	Command
Apply current material to (sub)mesh	Ctrl + M
Open browser	Ctrl + B
Add Hlms to browser	Ctrl + H

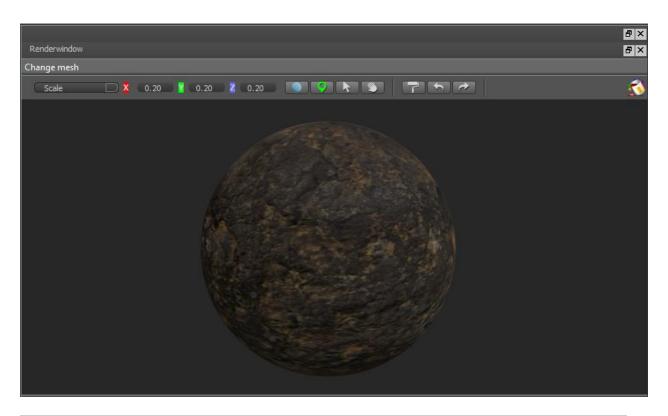
<u>T</u> extures	Command
Import textures from directory	Ctrl + I
Add texture file(s)	Ctrl + T

<u>P</u> ainting	Command
Create paint layer	Ctrl + P
Edit paint layer	Ctrl + R
Delete selected paint layer	Ctrl + D

Tools	Command
Configure	Ctrl + X

<u>W</u> indow	Command
Reset Window Layout	Ctrl + R

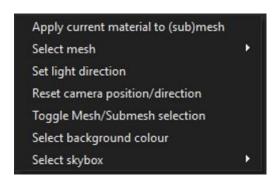
Render window



Action	Command
Rotate mesh	Left Mouse Button (LMB) Drag
Move mesh	Shift + LMB Drag
Select a mesh from a list	Change mesh listbox
Scale mesh	X 0.20 Y 0.20 Z 0.20
Set light direction	Toggle between and
Reset position and orientation mesh	
Mesh/submesh selection	Toggle between and + Hoover over submeshes (on/off)
Offset texture	Toggle between and (+ detail map selected) + LMB drag a detail map
Paint on a texture	Toggle between and +

Action	Command
	(+ paintlayer created) + LMB + move
Undo paint action	Click on
Redo paint action	Click on
Change background colour	Click on
Set current material to a Mesh or a Submesh	Doubleclick on Mesh/Submesh

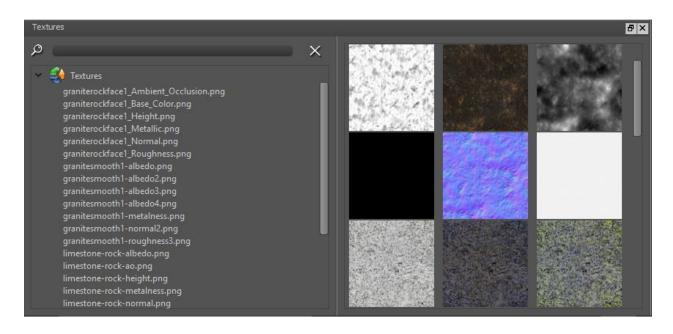
Render window context menu



Action	Command
Display context menu	Right Mouse Button (RMB)
Apply current material to a Mesh or a Submesh	Apply current material to a (sub)mesh
Select a mesh from a list	Select mesh
Set the direction of the light by moving the mouse	Set light direction + LMB + move
Reset position and orientation mesh	Reset camera position/direction
Hoover over submeshes; double clicking on highlighted submeshes applies the current material to that submesh	Toggle Mesh/Submesh selection

Action	Command
Change background colour	Select background colour
Select a skybox from a list	Select skybox

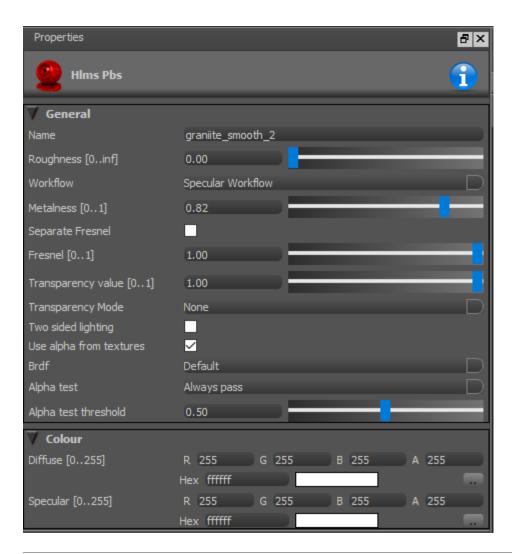
Texture window



Action	Command
Search	Enter search phrase in edit field
Reset search	Click on
Create a subgroup	Right Mouse Button (RMB) + select 'Create a subgroup' from contextmenu
Remove selected subgroup or texture from texture list	RMB + select 'Remove from list' from contextmenu
Collapse / expand	RMB + select 'Collapse / expand' from contextmenu
Import from directory	RMB + select 'Import from directory' from contextmenu
Add texture file(s)	RMB + select 'Add texture file(s)' from contextmenu
Add texture file(s)	Drag from file external explorer (eg Windows file explorer) + drop on texture window
Delete selected texture	Delete key
New Texture / Samplerblock node (in Node editor window)	Drag from texture listbox + drop on node editor window

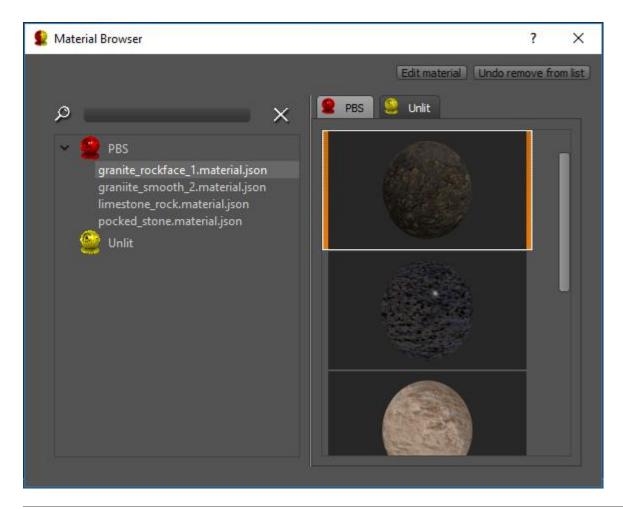
Action	Command
New Texture / Samplerblock node (in Node editor window)	Drag image + drop on node editor window

Properties window



Action	Command
Collapse property group	Click on
Expand property group	Click on

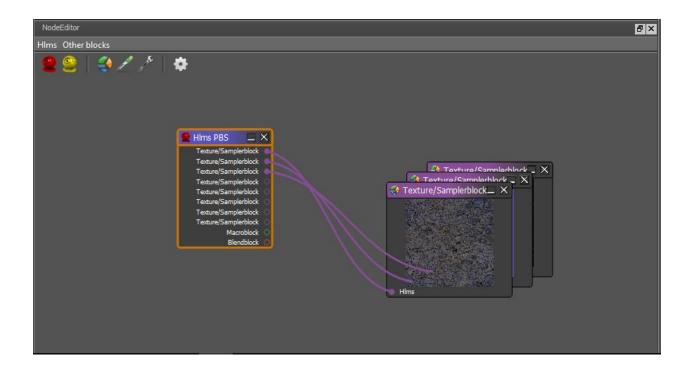
Material browser window



Action	Command
Search	Enter search phrase in edit field
Reset search	Click on X
Select material for editor	Doubleclick on item in listbox
Select material for editor	Click on item in listbox + button Edit material
Select material for editor	Right Mouse Button (RMB) + select 'Edit material' from contextmenu
Create a subgroup	RMB + select 'Create a subgroup' from contextmenu

Action	Command
Clone a material	RMB + ' Clone material' from contextmenu
Remove selected subgroup or material from material list	RMB + 'Remove from list' from contextmenu
Collapse / expand	RMB + 'Collapse / expand' from contextmenu
Undo remove from list	Click on item in listbox + button Undo remove from list

Node editor window

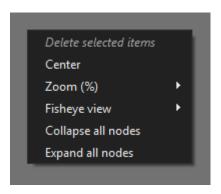


Node editor toolbar and menu

Action	Command
New HLMS PBS node	Click on Menu: Hlms → New Hlms Pbs
New HLMS Unlit node	Click on Menu: Hlms → New Hlms Pbs
New Texture / Samplerblock node	Click on Menu: Other blocks → New Texture/Samplerblock
New Blendblock	Click on Menu: Other blocks → New Blendblock
New Macroblock	Click on Menu: Other blocks → New Macroblock

Action	Command
Generate HLMS	Click on

Node editor context menu



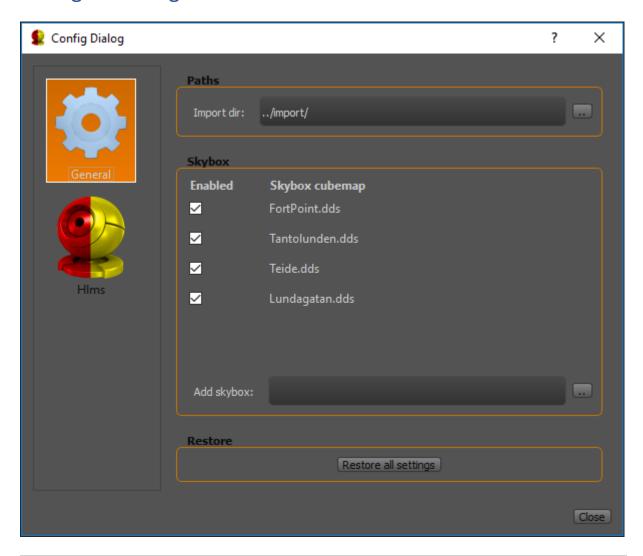
Action	Command
Display context menu	RMB
Center all nodes	Center
Zoom in/out (10% - 300%)	Zoom (%)
Automatic zoom in/out (based on mouse position)	Fisheye view
Collapse all nodes	Collapse all nodes
Expand all nodes	Expand all nodes

Node editor canvas actions

Action	Command
Select node	Click on header of a node
Add to selection	Ctrl + Click on header of a node
Rubberband selection	LMB Drag
Delete selected node(s)	Delete key

Action	Command
Move selected node(s)	Ctrl + LMB Drag
Pan the graph	Shift + LMB Drag
Zoom in/out	Mouse Wheel Up/Down
Display properties in properties window	Click on header of a node

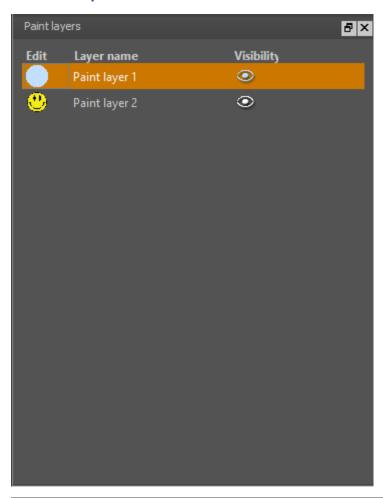
Configure dialog



Action	Command
Set the import directory (used for importing project and models)	Tab General: Click on group) (in Paths
Enable/disable a skybox	Tab General: Click on
Add a skybox	Tab General: Click on group) (in Skybox
Restore all settings	Tab General: Click on Restore all settings

Action	Command
Set default value of Min, Mag, Mip Filter of a Samplerblock	Tab Hlms: Select from dropdown listbox
Close the config dialog	Click on Close

Paint Layers



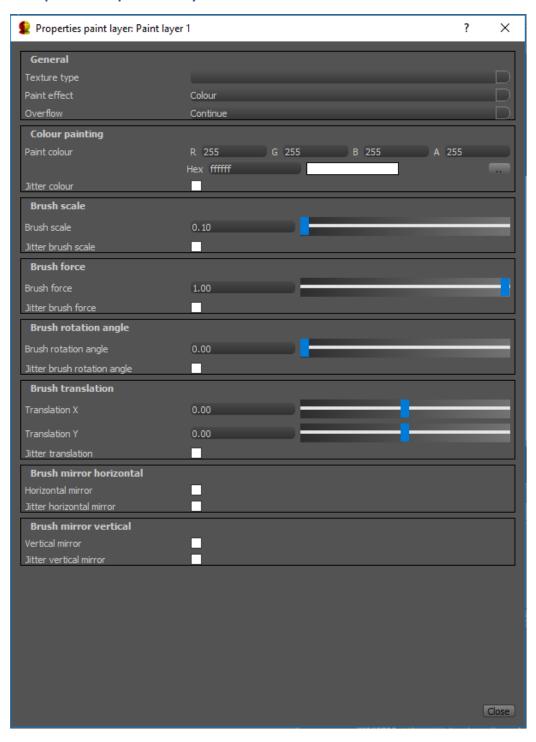
Action	Command
Open properties window	Doubleclick on brush icon
Change (edit) the name of the layer	Doubleclick on Layer name
Make layer visible/invisible; all other layers with the same texture type reference are also made visible/invisible	

Paint layers context menu

Create paint layer
Edit paint layer
Delete paint layer
Rename paint layer
Make all paint layers visible

Command
Create paint layer
Edit paint layer
Delete paint layer
Rename paint layer
Make all paint layers visible

Properties paint layers

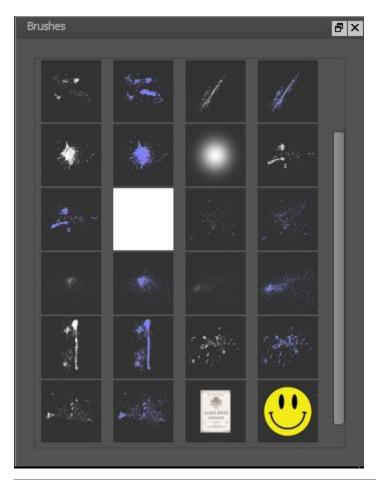


Action	Command
General	
Texture type	Select from list: Only the texture types used by the material are showed.
Paint effect	 Colour - Paint with colour Erase – Use the brush as an eraser Alpha - Paint with an alpha value; the brush acts as eraser Texture / Normal – The brush image is placed on the texture Carbon Copy – Use the brush to 'stamp' the selected texture on the target map of the model
Overflow	 Select from list: Ignore – The part of the brush that crosses the boundaries of the map is ignored for painting Continue – When the brush crosses the boundaries of the map, painting continues at the opposite side
Carbon Copy	
Texture	+ select texture from file dialog
Scale texture	LMB + slide
Colour Painting	
Paint colour	Enter values of the colour OR Colour picker:
Jitter colour If checked, a random colour between 2 colours is painted. The interval determines the frequency.	Checkbox
Brush scale	
Brush scale Determines the size of the brush	LMB + slide
Jitter brush scale	Checkbox

Action	Command
If checked, a brush scale between 2 values is used for painting. The interval determines the frequency.	
Brush force	
Brush force Determines how much 'pressure' is used for painting	LMB + slide
Jitter brush force If checked, a brush force between 2 values is used for painting. The interval determines the frequency.	Checkbox
Brush rotation angle	
Brush rotation angle Determines the angle of the brush in relation to the texture	LMB + slide
Jitter brush rotation angle If checked, a brush rotation angle between 2 values is used for painting. The interval determines the frequency.	Checkbox
Brush translation	
Brush translation Applies a uv offset to the brush	LMB + slide
Jitter translation If checked, a brush translation between 2 values is used for painting. The interval determines the frequency.	Checkbox
Brush mirror horizontal	
Brush mirror horizontal Determines whether the brush is mirrored horizontally	Checkbox
Jitter horizontal mirror If checked, the brush is mirrored horizontal randomly. The interval determines the frequency.	Checkbox
Brush mirror vertical	
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Action	Command
Determines whether the brush is mirrored vertically	
Jitter vertical mirror If checked, the brush is mirrored vertical randomly. The interval determines the frequency.	Checkbox

Brushes



Action	Command
Assign the brush to the selected paint layer	Doubleclick on brush

Workflows

