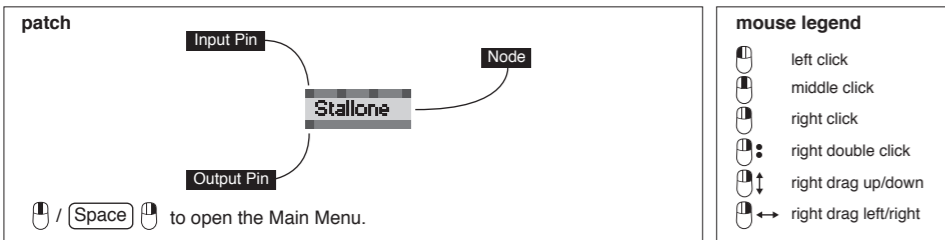


getting started



Create Nodes

in a patch to open the Node Browser

Start typing tags to find nodes. Separate multiple tags by space. Use up/down arrow keys and press enter or click a name to create the respective node

Type M, X, F, P, D to filter for Modules, Effects, Freeframes, Plugins, Dynamic Nodes

Type . to show only available subpatches (relative to the current patch)

in the Node Browsers textfield to show a category ordered list

in a patch to create a value IOBox by default or select one of the other IOBoxes from the upcoming list

Link Nodes

on an input or output pin to start a link

on any of the highlighted pins to end the link

on an output pin to start a link and automatically create an additional link from this pin after having ended it while making a link click in the patch

to add linkpoints to end link with respective IOBox to cancel the link

Change Nodes

an existing node to exchange it with another one while keeping links that are still fitting

alt a node to reset all its inputs to their default values

a value-, string- or color pin to show a little editor specific to the data type (see IOBoxes on the back side)

vvvv online

<http://vvvv.org>

TUTORIALS

<http://vvvv.org/documentation/tutorials>

DOCUMENTATION

<http://vvvv.org/documentation>

FORUMS

<http://vvvv.org/forums>

The documentation section of the website is a wiki which allows every user to participate and share his knowledge concerning specific topics.

Press CTRL+3 on any vvvv window to send a screenshot to the website.

imprint

All content of this leaflet as of vvvv45beta25

responsible for content

vvvv group

<http://vvvv.org/impressum>

window commands

Snapshot **ctrl** **1** Take a screenshot of the active window. The screenshot is saved to the clipboard as well as to disk next to the patch.

Snapshot Client **ctrl** **2** Same as above but takes the screenshot without window borders.

Snapshot to Web **ctrl** **3** Take a screenshot of the active window to share it on vvvv.org or specify a path to save it.

Always on Top **ctrl** **T** Set the active window to be always on top.

Windowed **alt** **1** Set the active windows component mode to show up in a window.

In a Box **alt** **2** Set the active windows component mode to show up as a box within its parent patch.

Hide **alt** **3** Set the active windows component mode to hidden, i.e. only the windows corresponding node shows up.

FullScreen **alt** **Enter** Switch active Window to fullscreen.

Toggle Border **ctrl** **8** Toggle the border of the active window on and off.

Toggle Windows **ctrl** **(↑)** **(↔)** Cycle through all vvvv windows. Press SHIFT to cycle in reverse order.

main commands

Help **F1** Show the help patch for the selected node. If no node is selected a generic help patch shows up.

Online Help **alt** **F1** Show the online node reference page of the selected node in a browser.

Fanclub **ctrl** **F1** Open an IRC chat connected to #vvvv on irc.freenode.net to chat to other users and devvvvelopers.

Inspektor **ctrl** **(↑)** **I** Bring up the Inspektor window or create one if none exists yet. Press SHIFT to open a new one regardless of any already existing.

Projekt Explorer **ctrl** **(↑)** **J** Bring up the Projekt Explorer window or create a new one if none exists yet. Press SHIFT to open a new one regardless of any already existing.

Finder **ctrl** **(↑)** **F** Bring up the Finder or create a new one if none exists yet. Press SHIFT to open a new one regardless of any already existing.

Rescan for Addons **alt** **E** Rescan the \freeframe and \vst directories for changes and add/remove according nodes to the Node Browser. Other Addons are being added/removed automagically.

Close **ctrl** **W** Close the current window and remove its corresponding node from the patch.

Close All **ctrl** **(↑)** **W** Close all windows and open a clean root patch.

Quit **alt** **F4** Exit vvvv.

patch commands

New **ctrl** **(↑)** **P** Open a new patch window with its corresponding node in the root patch. Press SHIFT to create the node corresponding to the new patch in the active patch.

Open **ctrl** **(↑)** **O** / **Q** Open an existing patch with its corresponding node in the root patch. Press SHIFT to create the patches corresponding node in the active patch.

Save **ctrl** **S** Save the active patch.

Save As... **ctrl** **(↑)** **S** Save active patch under a different name.

Save All **alt** **S** Save all unsaved patches.

Revert to Saved **ctrl** **R** Close the active patch unsaved and load the last version from disk.

Set as Root **alt** **T** Set the active patch as root and write an entry to the args.txt file so that this patch is loaded as root on startup.

Show Root **alt** **R** Show the current root patch.

Module Info **ctrl** **M** Toggle show/hide fields to add Author, Description, Tags for a module.

Lock Patch **ctrl** **E** Toggle the lock-state of the active patch. Locked patches hide nodes and links marked as „Hide on Lock“ and only allow interaction with IOBoxes.

Lighten Patch **ctrl** **7** Lighten the active patches background.

Darken Patch **ctrl** **6** Darken the active patches background.

edit commands

Undo **ctrl** **Z** Undo the last step. The undo history is infinite. See the Undo (VVVV) node for some options.

Redo **ctrl** **(↑)** **Z** Redo the last undone step. See the Undo (VVVV) node for some options.

Cut **ctrl** **X** Copy and remove selected nodes from the patch.

Copy **ctrl** **C** Copy selected nodes.

Paste **ctrl** **(↑)** **V** Insert copied nodes at the position of the mouse cursor. Press SHIFT to keep all inputs connected.

Duplicate **ctrl** **(↑)** **D** Copy and paste selected nodes. Press SHIFT to keep all inputs connected.

Align **ctrl** **L** Align the currently selected group of nodes either horizontally or vertically, depending on their current arrangement.

Select All **ctrl** **A** Select all nodes in the active patch.

Boygrouop **ctrl** **B** Toggle Boygroup status of a node. See <http://vvvv.org/documentation/boygrouping>

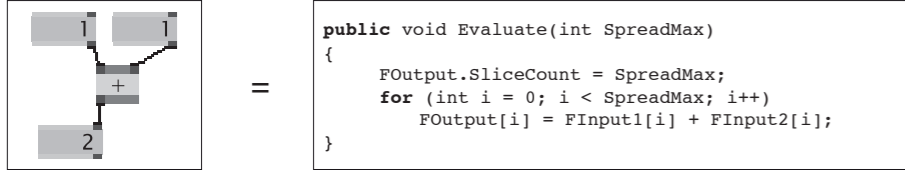
Hide on Lock **ctrl** **H** Toggle visibility of selected nodes and links for when the patch is locked.

Debug Mode **ctrl** **(↑)** **F9** Toggle debug mode. Press SHIFT to toggle the mode of selected nodes only.

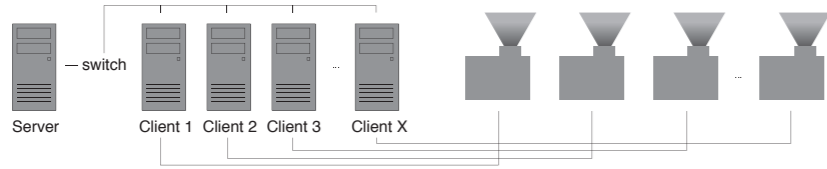
Change Linktype **ctrl** **Y** Cycle through different line styles for links: straight, segmented or bézier.

vvvv - a multipurpose toolkit

vvvv is a hybrid graphical and textual programming environment for rapid prototyping as well as realworld professional use.



With its built in Boygrouping (client/server render cluster) technology it is designed to facilitate the handling of large scale interactive media installations.



vvvv natively supports the following standards (many more are available via plugins)

- ArtNet Collada CSharp Direct3D DirectShow DotNet DMX Flash
 FFT Freeframe HID HLSL HTML HTTP IRC MIDI MySQL OSC ODE
 RS232 TCP UDP XML VST**

vvvv - licensing à la robin hood

vvvv is free for non-commercial and academic use.
 Commercial use requires the payment of license fees and thus supports further development.

<http://vvvv.org/licensing>



The functionality described below also applies to pin-Editors which are invoked via right-click on pins of the respective types.

IOBox (Value Advanced)

- enter a new value (also try math formulas)
- change value according to stepsize
- steps / 10
- steps / 100
- steps / 1000

IOBox (String)

- enter a new string
- file-dialog
- directory-dialog

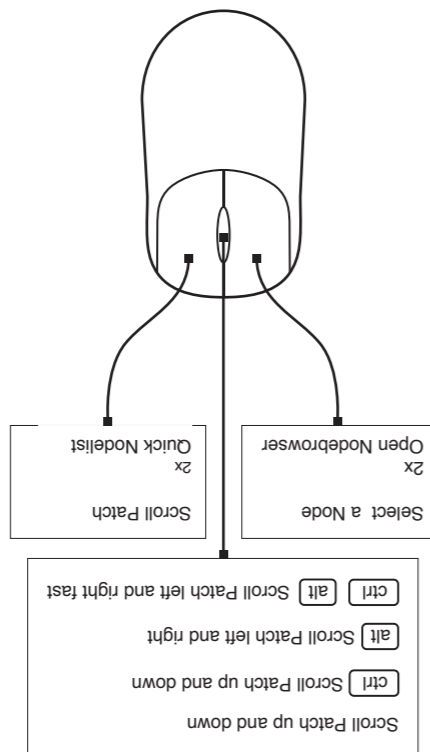
IOBox (Color)

- brightness
- saturation
- hue
- alpha

All IOBoxes, Nodes and Pins

- reset to default value

on any connected IOBox to automatically give it a descriptive name, turning it into a pin of this name manually via the Inspector.



ESC	F1	Help	Online Help	Fanclub	F2	F3	F4	Quit	F5	F6	F7	F8	F9	Debug Mode	F10	F11	F12	
New Patch	New	Snapshot	Snapshot Client	Snapshot to Web	Hide	1	2	3	4	5	6	7	8	9	0	?	→	Delete
In Patch	Open	Close	Toggle Lock	Revert to Saved	Always on Top	Set as Root	Undo	Inspector	Open in Patch	New Patch	*	U	#	Fullscreen	↩	↪	In Reverse	Toggle Windows
Save As	Save	Duplicate	Keep Input Links	Finder	G	H	J	Project Explorer	Align	L	O	A	#	↩	↪	↻	↻	↻
Change Linktype	X	Cut	Copy	Paste	Keep Input Links	Boygroup	N	M	Module Info	,	.	-	↓	Move Nodes	↻	↻	↻	↻
Ctrl	alt	ctrl + key	ctrl + shift + key	ctrl + key	alt	alt gr	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻

IOBoxes