SC Joystick Mapper Quick Reference Guide V 2.5

20140920 – Cassini ChangeLog: see ReadMe.txt

Disclaimer: Usual stuff – no warranty whatsoever.. Freeware – made for the SC community Hope it helps and does not suck. Have fun in the verse ...



Updating from V 2.x to V 2.5:

- If you not have used 2.3 already: Check the jsN assignment and maybe de-assign unused devices See the new 'js Reassign' feature on page 17. Note: You may need to do this twice for each of the "VJoy virtual joystick" devices.
- If you encounter an error or crash then read on...
- You will find 'log4net.config.OFF' in the distribution zip. Rename it to 'log4net.config' and run the program. Then look for a file named 'trace.log' in the program folder and send this to <u>cassini@burri-web.org</u> along with a description of the problem and your system i.e. OS, CPU, Graphics card, Joystick(s) we may then finally solve the issue ...

Contents

- Page 2 Version Upgrade and Issue Handling
 - Contents (this one...)
- Page 4..10 General GUI and how to's
 - V2.0 new features
 - V2.1 new features
 - V2.2 new features + V2.5 refinement
 - V2.3 new features + V2.4 refinement
 - V2.5 new features
 - **Common Workflows Cheat sheet**

• Last Page

• Page 3

• Page 11..14

• Page 15

• Page 16

• Page 17

• Page 18

Workflow

- Connect the joystick devices to the PC
- Start from scratch or load an existing map from a file
- Make or refine mappings
- Save the new map to an XML file
- Use it in the game: e.g. pp_rebindkeys C:\maps\layout_my_joystick
- V 2.0: You may load and save the map directly from your game folders so next time you just use pp_rebindkeys layout_my_joystick

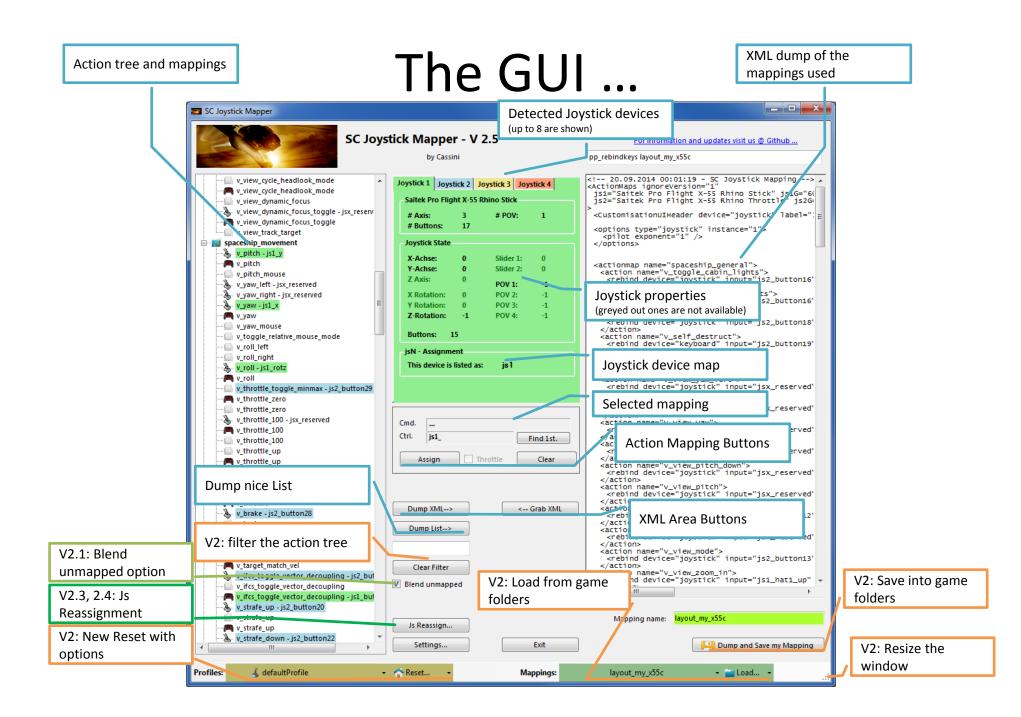
Note: the predefined actions are the ones found in the AC game default profile – it is likely that some of them will not work at all as the game is not finished. There is no proper description for which one does what – you may get help in SC Forums.

As I had my issues with missiles here a finding..

To reallocate the missile fire command you should map the following 2 actions to the same joystick button:

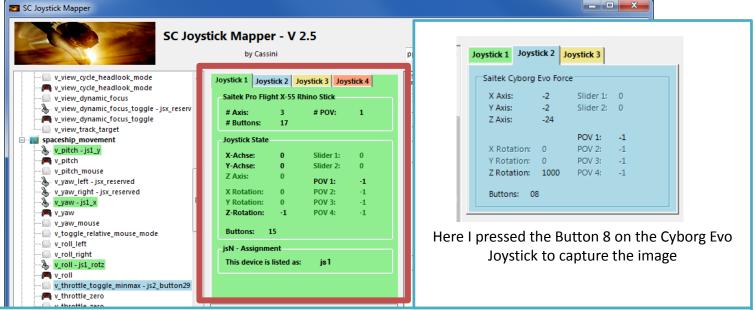
- v_target_missile_lock_selected
- v_weapon_launch_missile

BTW: if you copy e.g. "pp_rebindkeys C:\maps\layout_my_joystick" from notepad you may use Ctrl-V to paste it in-game into the console – saves you some typing...



V2.3 Update here

The Joystick Area...



The tabs represent the joystick devices found connected to the PC also the number 1..8 shows the order the PC reports them which is crucial to the mapping as this will result in the default js_1, js_2 .. Names used to build the command name. The elements are the ones the joystick seems to support – greyed ones are not available for this device.

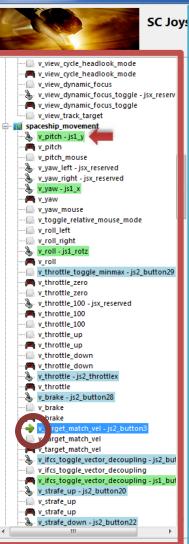
V 2.4: you will see the actual Js assignment - or 'not assigned' – see page 17 The SC-Device to Joystick Mapping is a separate window accessed by hitting the '**Js Reassign**' button.

Just hit any button, Axis and see how things are changing.

The Action Tree ...

📰 SC Joystick Mapper

Profiles:



💪 defaultProfile

SC Joy: The tree is initially built from the known actions which are grouped along 'actionmaps' e.g. '*spaceship_movement*. Each action is either a predefined joystick or keyboard action – this is given by the SC default profile.

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By 'rebinding' or mapping and action with a different controls one does **replace** the default one i.e. overwriting keyboard actions will result in not having them available on the keyboard once you load the map in the game!

However no damage is done! This mapping is only valid until you exit the game or type *pp_rebindkeys* without a name

If actions are mapped (as shown) the color indicates to which joystick the mapping goes.

 $v_pitch - js1_y$ then means that the action v_pitch (joystick per default) is rebound to the joystick 1 (green) and there the Y-axis control.

If the background is white - there is no current mapping given. Unmapped actions are ignored.

Click on any action to make it the used action in the mapping area. Once selected it is marked with the green arrow. \Box_{a}

The Mapping Area...

Whenever you click on an action in the Action Tree it is copied into Cmd. and can be mapped to a Control.

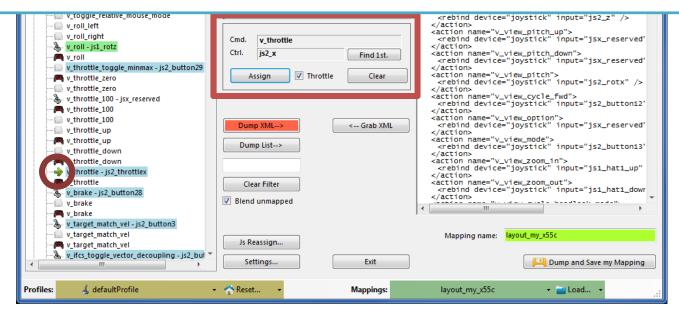
The Control (Ctrl.) is the last joystick item you activated on the currently shown joystick tab. I.e. if you want to map it for a control on the second joystick you have to select the "Joystick 2" Tab first.

Once you have a mapping that should be used, hit the "Assign" button. The new mapping will be shown in the Action Tree – where it gets the back color of the joystick it is assigned to.

V2: To make any axis a Throttle axis – check the 'Throttle' box ! It is often the Z-Axis but the Rhino has it e.g. on js2_y. If you do so the control assigned in changed to a throttle control (here js1_throttlez)

To clear a mapping – select it in the ActionTree and Click "Clear" - it gets a neutral color and no control in the ActionTree – it is now unmapped.

You may use "Find 1st" to find the first action where the currently shown Ctrl. (js1_z or if checked as shown js1_throttlez) is mapped.



The XML Area...

💰 defaultProfile

Profiles:

SC Joystick Mapper

🝷 🚞 Load...

Mappings are sent to the game using XML formatted files. For information and updates visit us @ Github ... The XML Area is where you may find the mapping after hitting the 'Dump' pp rebindkeys layout my x55c button. -- 14.09.2014 17:50:35 - SC Joystick Mapping --> , ActionMaps version="0" Rightclick opens a menu where you may choose from: js1="Saitek Pro Flight X-55 Rhino Stick" js1G="6(js2="Saitek Pro Flight X-55 Rhino Throttle" js2G: Copy, Paste, PasteAll, Select All, Open..., Save As... <actionmap name="multiplayer"> <action name="respawn"> <rebind device="xboxpad" input="js2_button19"</pre> </action> </actionmap> The usage is rather common here. Once you dumped the mapping you want <actionmap name="spaceship_general"> <action name="v_toggle_cabin_lights"> <rebind device="joystick" input="js2_button16" to "Save" it as "filename.xml" somewhere. </action> <action name="v_toggle_running_lights">
 <rebind device="joystick" input="js2_button16"</pre> </action> To refine any mapping "Open" the file – the content is shown in the XML <action name="v_eject">
 <rebind device="joystick" input="js2_button18"</pre> </action> Area, then "Grab" it into the ActionTree. /actionmap> <actionmap name="spaceship_view"> Once the refinement is finished – again Save it to a file. <action name="v_view_yaw_left"> <rebind device="joystick" input="js1_hat1_left </action> <action name="v_view_yaw_right">
 <rebind device="joystick" input="js1_hat1_right"> Load and Save much easier ... read V2 Feature pages </action> <retion name="v_view_yaw">
 <rebind device="joystick" input="js2_z" /> </action> <action name="v_view_pitch_up"> <rebind device="joystick" input="jsx_reserved" Note: only use properly formatted ActionMaps here. The program may just </action> <action name="v_view_pitch_down"> break if it encounters something unexpected! <rebind device="joystick" input="jsx_reserved" </action> <action name="v view pitch"> <rebind device="joystick" input="js2_rotx" /> </action> <action name="v_view_cycle_fwd">
 <rebind device="joystick" input="js2_button12"</pre> v_throttle_100 </action> <action name="v_view_option">
 <rebind device="joystick" input="jsx_reserved"</pre> v_throttle_100 Dump XML--> <-- Grab XML v_throttle_up </action> <action name="v_view_mode">
 <rebind device="joystick" input="js2_button13"</pre> - 🖱 v_throttle up Dump List---v throttle down </action> v_throttle_down <action name="v_view_zoom_in"> <rebind device="joystick" input="js1_hat1_up" 🔶 v_throttle - js2_throttlex </action> <action name="v_view_zoom_out"> - 🎮 v_throttle Clear Filter <rebind device="joystick" input="js1_hat1_dowr 🍇 v_brake - js2_button28 </action> Blend unmapped - v_brake and the second discovery and a local discovery and all Parake v_target_match_vel - js2_button3 v_target_match_vel Mapping name: layout_my_x55c Js Reassign... Main v_target_match_vel v_ifcs_toggle_vector_decoupling - js2_but Settings. Exit Dump and Save my Mapping

👻 🏫 Reset...

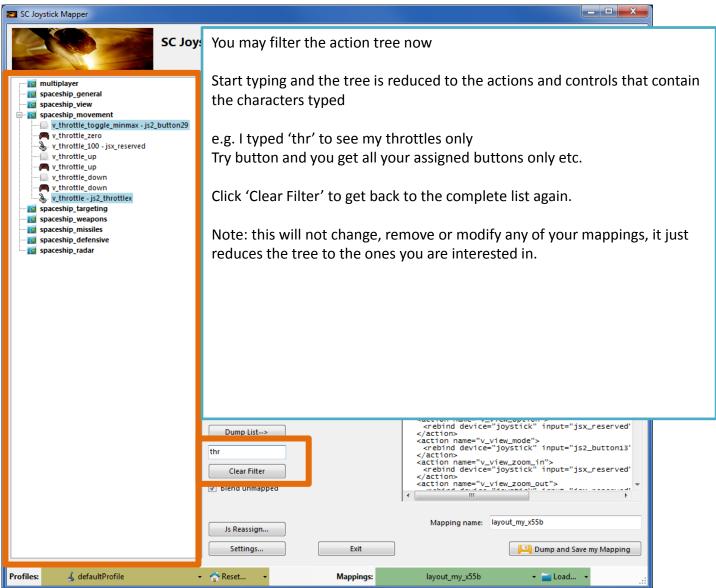
Mappings:

layout_my_x55c

The XML Area...

SC Joystick Mapper	
If you hit "Dump List" a formatted list of the mapped actions is written into	For information and updates visit us @ Github
the XML area.	pp_rebindkeys layout_my_x55c
You may use the "Save As" menu to save it e.g. as TXT file.	14.09.2014 17:55:29 - SC Joystick Mapping ** js1 = Saitek Pro Flight X-55 Rhino Stick ** js2 = Saitek Pro Flight X-55 Rhino Throttle
	*** multiplayer respawn - js2_button1
Speichern unter	*** spaceship_general v_toggle_cabin_lights - js2_button1 v_toggle_running_lights - js2_button1 v_eject - js2_button1
Specifierrunter Computer → 1_APPLIC (E:) → G → StarCitizen → My → 4-2 My durchsuchen P	*** spaceship_view
Organisieren ▼ Neuer Ordner III ▼ III ▼	v_view_yaw_left - js1_hat1_le v_view_yaw_right - js1_hat1_ri v_view_patch - js2_rotx v_view_pitch - js2_pottoni v_view_cycle_fwd - js2_buttoni v_view_zoom_in - js1_hat1_up v_view_zoom_out - js1_hat1_do
Image: Second secon	*** spaceship_movement v_pitch - js1_y v_yaw - js1_x v_roll - js1_vtz v_throttle_toggle_minmax - js2_button2 v_throttle - js2_throttl v_brake - js2_button2
■ Desktop Bibliotheker ■ Bider I teiname: T2Mapping.txt Dateityp: Text files (*.txt)	v_target_match_vel - js2_button3 v_ifcs_toggle_vector_decoupling - js1_button2 v_strafe_up - js2_button2 v_strafe_down - js2_button2 v_strafe_left - js2_button2 v_strafe_right - js2_button2 v_strafe_forward - js2_button2 v_strafe_brack - js2_button2
Ordner ausblenden Speichern Abbrechen	<pre>*** spaceship_targeting V_target_cycle_all_fwd - js2_buttons V_target_cycle_friendly_fwd - js2_button4 V_target_toggle_pinned_focused - js1_button1 V_target_missile_lock_focused - js1_button6 V_target_nearest_hostiles1_button1 V_target_nearest_hostiles1_button1 V_target_pin_reticule - js1_button1</pre>
v throttle_up vthrottle_down vthrottle_js2_throttlex vthrottle vt	*** spaceship_turret *** spaceship_weapons v_attack1_group1 - js1_button1 v_attack1_group2 - js1_button4 v_attack1_group3 - js1_button4 v_attack1_group4 - js1_button4 *** III +
↓ v_target_match_vel ↓ v_target_match_vel ↓ v_target_match_vel ↓ v_target_match_vel ↓ v_target_match_vel ↓ v_target_match_vel ↓ Settings	Mapping name: layout_my_x55c
Profiles: 🤞 defaultProfile 🔹 👘 Reset 🔹 Mappings:	layout_my_x55c 🔹 🛀 Load 👻 🔡

V2 – Features - 1





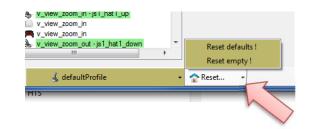
🛅 SC Joystick Mapper

New working with profiles.

The program gets the actions from the real game asset – so you are always up to the actual values.

From here you may Reset the action list to the following

- RESET EMPTY reverts to just an action list without any mappings
- RESET DEFAULTS loads the Joystick actions mapped with what CIG is providing



Note: as CIG is providing a number of defaultProfiles you may chose one of those – however using the **defaultProfile** is usually the best option

(This may be work in progress by CIG...)

Profiles: 🔬 defaultProfile

V2 – Features - 3

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SC Joystick Mapper

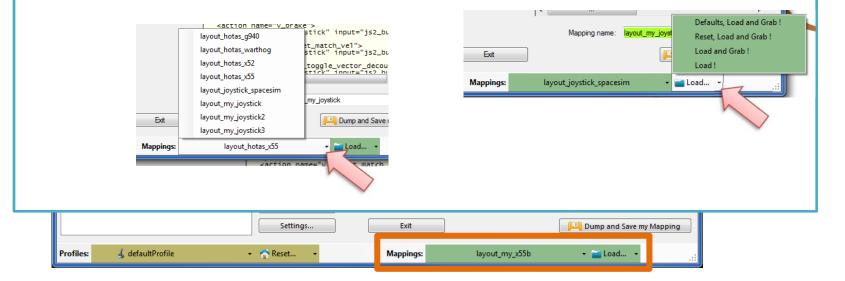
New working with actionmaps (Maps, Mapping etc..)

The program gets the actionsmaps from the real game asset – so you are always up to the actual values. (...\StarCi ti zen\Ci ti zen\Ci ti zenCl i ent\Data\Control s\Mappi ngs)

From here you may first chose a map, then 'Load' the actionmap – this will overwrite you XML window in any case

- LOAD loads the map into the XML window only
- LOAD and GRAB loads the map into the XML window and clicks Grab i.e. merges the existing mapping with the one loaded
- RESET, LOAD and GRAB first Reset (empty) the action list (all mappings cleared) then it loads and grabs the new map
- DEFAULT, LOAD and GRAB first Reset (defaults) the action list then it loads and grabs the new map and merges them with the defaults

See last page for some common workflows And how to handle them easily





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<action name="v_brake";

layout_hotas_g940

layout_hotas_x55 layout_joystick_spacesim

layout_my_joystick

layout_my_joystick2

layout_my_joystick3 layout_hotas_x55

layout_hotas_warthog layout_hotas_x52 stick" input="js2_bu

t_match_vel"> stick" input="js2_bu

toggle_vector_decou

Dump and Save I

Load..

my_joystick



SC Joystick Mapper

The program not only gets the actionsmaps from the real game asset – but also can save your maps there. (...\StarCi ti zen\Ci ti zen\Ci

- 1. Type a name (limitations see note)
- 2. Hit the button it will then Dump and Save your map into the game folder (well asking you to overwrite it if it exists)

NOTE: your map name has always to start with 'layout_my_' to prevent modifying CIGs own actionmaps Lowercase only, no spaces, tabs allowed else you see the red flag .. Mapping name: avoid_any

Mapping name: layout_my_joystick3

A successful Save will show the green flag

Dump and Save my Mapping

Your own maps will then show up like the game provided maps pp_rebindkeys layout_my_joystick should load it into the game

Note: For your convenience each Save also makes a copy of into your personal "My Documents\SCJMapper" folder – no work is lost if there is an update that cleans the Mappings folder.

		Js Reassign Settings	Exit	Mapping name:	layout_my_x55b
Profiles:	💰 defaultProfile	👻 📸 Reset 👻	Mappings:	layout_my_x55b	🕶 🚞 Load 👻 🔡

V2.1 – Features

New possibility to blend the unmapped joystick entries

If you wish to hide all the joystick actions that you don't use - to make sure they are not active - check "Blend unmapped"

The program will then map all unmapped actions with 'jsx reserved' preventing any profile settings on the joystick. This is fully reversible – just uncheck the option and Dump the contents again.

New Settings window

As many are concerned about steady ON buttons that might interfere with assigning the proper control to an action we included a setting to IGNORE specific buttons.

Just enter the button numbers to ignore separated by a Space.

Make sure you enter the numbers for the right Joystick. Settings Immore Buttons - enter button numbers which should be ignored separated by spaces (e.g. 24 25) Ignore Actionmaps - check the ones to hide Numbers are the same as in the main window. multiplaye Jowstick 1 15 16 17 singleplay Joyitick 2 32 33 34 👽 playe 🗸 flycam Joyitick 3 spaceship_ Joystick 4 spaceship view snaceshin r Joystick 5 spaceship targeting spaceship turret Joystick 6 spaceship weapons Joystick 7 spaceship missiles spaceship defensive Joystick 8 spaceship auto wea spaceship radar There is also way to override the programs own detection spaceship hud Path to the Star Citizen Installation (e.g. C:\Games\StarCitiz JIFCS controls ... of the Star Citizen install folder. Advanced Options Make sure to use the Checkbox if you want to override! force 'ignorevers Note: Accepting changes will clear the action tree to apply the new settings Cancel now if you want to save your work first. Accept </action> v_view_cycle_fwd <action name="v_view_zoom_out"> Blend unmapped v_view_cycle_fwd

Cancel

v_view_cycie_internal_twd v_view_option - jsx_reserved 4 v_view_option v_view_option v_view_mode - js2_button13	Js Reassign	Exit	Mapping name:	layout_my_x55b
Profiles: 🔬 defaultProfile	🗸 🏠 Reset 👻	Mappings:	layout_my_x55b	🕶 📥 Load 👻 🤐

V2.2, 2.5 – Features

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📰 SC Joystick Mapper

New possibility to ignore unwanted actionmaps

If you wish to ignore some maps to unclutter the GUI If you with to use the default ignored new actionmaps *multiplayer, singleplayer, player*

The program will ignore all actionmaps that are **checked** In the example *multiplayer, singleplayer, player and IFCS_controls* are completely ignored and will not show up.

Just uncheck any to use it again.

Ignore Buttons - enter button numbers which should be ignored separated by spaces (e.g. 24 25) Ignore Actionmaps - check the ones to hide
Joystick 1 15 16 17 Joystick 2 32 33 34 Joystick 3 Joystick 4 Joystick 5 Joystick 6 Joystick 7 Joystick 8 Path to the Star Citizen Installation (e.g. C:\Games\StarCitizen) Advanced Options force 'ignoreversion'
Note: Accepting changes will clear the action tree to apply the new secongs, Accept Cancel Cancel now if you want to save your work first.
Mapping name: layout_my_x55b Exit Dump and Save my Mapping Mappings: layout_my_x55b

V2.3, 2.4 – Features

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SC Joystick Mapper

New possibility to (re) assign the joystick devices to the wanted js - number

Go here if you wish to assign a device to a particular js – number or to re-assign the devices to other numbers. Per default the devices found are assigned along the sequence 1..8 but SC may remap them so here is the place to fix this without having to go through all commands and reassign them.

Notes: The color of the assigned items will not change as it is still the same device but js1 will become js2 for example. You can leave this dialog with "Accept" only if each device is either assigned to a unique number or to n.a. (not assigned) otherwise an error pops to ask you to fix it or Cancel.

V2.4 allows to assign js1 Js8 now	Reassign Joystick Numbers	
	jsN - Assgi	nment
Related SC console commands are:	Joystick 1	Saitek Pro Flight X-55 Rhino Stick js1 👻
	Joystick 2	Saitek Pro Flight X-55 Rhino Throttle js2 👻
i_DumpDeviceInformation	Joystick 3	VJoy Virtual Joystick n.a. 👻
	Joystick 4	VJoy Virtual Joystick n.a. 👻
pp_ResortDevices joystick 1 2	Joystick 5	
	Joystick 6	· · · · · · · · · · · · · · · · · · ·
	Joystick 7	· · · · · · · · · · · · · · · · · · ·
	Joystick 8	· · · · · · · · · · · · · · · · · · ·
		Accept Cancel
v_view_cycle_internal_fwd		
v_view_option - jsx_reserved		Mapping name: layout_my_x55b
Js Reassign	•	
< III ► Settings		Exit
Profiles: 🌛 defaultProfile 🔹 🌴 Reset 👻		Mappings: layout_my_x55b 🗸 🔂 Load 🖌 🔡

V2.5 – Features

SC Joystick Mapper

New possibility – support for options

The prog will now maintain the following 3 XML tags

- <CustomisationUIHeader ...>
- <options ...>
- <deviceoptions ...>

You may copy and paste or type whatever of those 3 tags you want to use – the program will maintain your typing and also read it from the mapping file when it is already there.

Note: There is no support to get proper options or let you interactively design those tags (sorry I know too little about all useful possibilities)

The program stores the tags as plain string and will not do anything but get them in and out again. Some pretty printing is applied.

Hint:

copy and just paste them into the editor – easy Or load your modified mapping – the prog should maintain them (testing by looking into the file the first time would be sensible...)

For information and updates visit us @ Github
pp_rebindkeys layout_my_x55c
<pre><!-- 20.09.2014 00:01:19 - SC Joystick Mapping<br--><actionmaps <br="" ignoreversion="1">is1="Saitek Pro Flight X-55 Rhino Stick" is1G="(</actionmaps></pre>
<pre>> </pre> <pre>> </pre> <pre></pre> <pre>> </pre> <pre></pre> <pre>> </pre> <pre>> </pre> <pre>> </pre> <pre>> </pre> <pre>> </pre>
<pre><options instance="1" type="joystick"> <pilot exponent="1"></pilot> </options></pre>
<actionmap name="spaceship_general"></actionmap>
<pre><action name="v_toggle_cabin_lights"> <rebind device="joystick" input="js2_button16 </action></pre></td></tr><tr><td><pre><action name=" v_toggle_running_lights"=""></rebind></action></pre>
<pre><action name="v_eject"></action></pre>
<pre><action name="v_self_destruct"></action></pre>
<actionmap name="spaceship_view"> <action name="v_view_yaw_left"> <rebind device="joystick" input="jsx_reserved</td></tr><tr><td><pre></action> <action name=" v_view_yaw_right"=""> <rebind device="joystick" input="jsx_reserved </action></pre></td></tr><tr><td><pre><action name=" v_view_yaw"=""> <rebind device="joystick" input="jsx_reserved </action></pre></td></tr><tr><td><pre><action name=" v_view_pitch_up"=""> <rebind device="joystick" input="jsx_reserved </action></pre></td></tr><tr><td><pre><action name=" v_view_pitch_down"=""></rebind></rebind></rebind></rebind></action></actionmap>
<pre><action name="v_view_pitch"></action></pre>
<pre><ation name="v_view_cycle_fwd"></ation></pre>
<pre><action name="v_view_option"></action></pre>
<pre><action name="v_view_mode"> <rebind device="joystick" input="js2_button13 </action></pre></td></tr><tr><td><pre><action name=" v_view_zoom_in"=""> <rebind <="" device="joystick" input="js1_hat1_up" pre=""></rebind></rebind></action></pre>
< <u> </u>
Mapping name: layout_my_x55c

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SCJMapper V 2 – Common Workflows

