

# SC JOYSTICK MAPPER QUICK REFERENCE GUIDE V 2.29

20170506 – Cassini

- <https://github.com/SCToolsfactory/SCJMapper-V2/releases>
- Change Log: see ReadMe.txt

SC Joystick Mapper - V 2.29.0.63 beta

by Cassini

pp\_rebindkeys layout\_my\_x55\_65k

For information and updates visit us @ Github ...

spaceship\_general

- v\_eject - js2\_button46 #
- v\_eject - kb1\_lalt+l
- v\_eject
- v\_eject\_cinematic
- v\_eject\_cinematic
- v\_eject\_cinematic
- v\_exit - kb1\_f
- v\_exit
- v\_exit - js1 ~
- v\_self destruct - js1 ~
- v\_self destruct - kb1\_lalt+backspace
- v\_self destruct
- v\_toggle\_cabin\_lights - js1 ~
- v\_toggle\_cabin\_lights - kb1\_lalt+l
- v\_toggle\_cabin\_lights
- v\_toggle\_running\_lights - js1 ~
- v\_toggle\_running\_lights - kb1\_lalt+l
- v\_starmap
- v\_cooler\_throttle\_up - js1 ~
- v\_cooler\_throttle\_up - kb1\_lalt+lcrlf+np\_8
- v\_cooler\_throttle\_up
- v\_cooler\_throttle\_down - js1 ~
- v\_cooler\_throttle\_down - kb1\_lalt+lcrlf+np\_7
- v\_cooler\_throttle\_down
- spectate\_enterpuremode

spaceship\_view

- v\_view\_yaw\_left - js3\_hat1\_left
- v\_view\_yaw\_left
- v\_view\_yaw\_right - js3\_hat1\_right
- v\_view\_yaw\_right
- v\_view\_yaw - js2\_rotx
- v\_view\_yaw
- v\_view\_yaw\_mouse
- v\_view\_yaw\_absolute
- v\_view\_pitch\_up - js3\_hat1\_up
- v\_view\_pitch\_up
- v\_view\_pitch\_down - js3\_hat1\_down
- v\_view\_pitch\_down
- v\_view\_pitch
- v\_view\_pitch\_mouse
- v\_view\_pitch\_absolute

Gamepad Joystick 1 Joystick 2 Joystick 3

Saitek X65F Flight Controller

# Axis: 9 # POV: 1

# Buttons: 50

Joystick State

X: 0 Throttle 2: 0

Y: 0 Slider 2: 0

Throttle 1: 0 Mehrwegescha -1

Rotary 1: 0 POV 2: -1

Rotary 2: 0 POV 3: -1

Rudder: 0 POV 4: -1

Buttons:

jsN - Assignment

This device is listed as: js2

```
<!-- 28.04.2017 22:42:00 - SC Joystick Mapping -->
<ActionMaps version="1" optionsVersion="2" rebindVersion="1" js2="Saitek X65F Flight Controller" js2G="050def1" js3="Saitek Pro Flight X-55 Rhino Stick" js3G="050def1" -->
  <CustomisationUIHeader label="my_x55_65k" descr="Saitek X65F Flight Controller" -->
    <devices>
      <keyboard instance="1"/>
      <mouse instance="1"/>
      <joystick instance="2"/>
      <joystick instance="3"/>
    </devices>
    <categories>
      <category label="@ui_CCspaceFlight"/>
    </categories>
  </CustomisationUIHeader>
  <options type="joystick" instance="3">
    <flight_move_pitch exponent="1.00">
      <nonlinearity_curve>
        <point in="0.182" out="0.028"/>
        <point in="0.629" out="0.235"/>
        <point in="0.895" out="0.629"/>
      </nonlinearity_curve>
    </flight_move_pitch>
  </options>
  <options type="joystick" instance="3">
    <flight_move_yaw exponent="1.00">
      <nonlinearity_curve>
        <point in="0.182" out="0.028"/>
        <point in="0.629" out="0.235"/>
        <point in="0.895" out="0.629"/>
      </nonlinearity_curve>
    </flight_move_yaw>
  </options>
  <options type="joystick" instance="3">
    <flight_move_roll exponent="1.00">
      <nonlinearity_curve>
        <point in="0.182" out="0.028"/>
        <point in="0.629" out="0.235"/>
        <point in="0.895" out="0.629"/>
      </nonlinearity_curve>
    </flight_move_roll>
  </options>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="rotz" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="x" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="y" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="z" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="x2" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="y2" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="z2" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="x3" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="y3" deadzone="0.030" />
  </deviceoptions>
  <deviceoptions name="Saitek Pro Flight X-55 Rhi"
  <option input="z3" deadzone="0.030" />
  </deviceoptions>
  </options>
  </ActionMaps>
```

Selected: [ ]

Mapping: [ ]

Dev Ctrl: js2\_lalt+

Assign [ ] Throttle [ ] Find List...

Disable [ ] JS / Kbd [ ] Clear

Dump XML--> [ ] Grab XML [ ]

Dump List--> [ ] Toggle Table... [ ]

Dump Log--> [ ] Options... [ ]

Dump Profile --> [ ] Device Tuning... [ ]

Joystick [x] Gamepad [x] Keyb. [x] Mouse [x] Mapped [ ]

Action Filter: [ ] Clear Filter [ ] Js Reassign... [ ]

Profile: Data/XML defaultProfile [ ] Settings... [ ] Exit [ ]

Mapping name: layout\_my\_x55\_65k [ ] Dump and Save my Mapping [ ]

Profiles: Reset... [ ] Support: profile version="1" optionsVersion="2" rebindVersion="2" Mappings: layout\_my\_x55\_65k [ ] Load... [ ]

Disclaimer: Usual stuff – no warranty whatsoever..

Freeware – made for the SC community

Hope it helps and does not suck.

Have fun in the verse ...



# General Information

- Connect the game control devices to the PC
- Start from scratch (see Hints section) or load an existing map from a file
- Make or refine mappings
- Save the new map as an XML file
- Use it in the game: e.g. `pp_rebindkeys layout_my_joystick`
- You may load and save the map directly from your game folders so next time you just use `pp_rebindkeys layout_my_joystick`
- `pp_rebindkeys` without a name will reset the maps but only after you close the console window
- **It is a good idea** to always first `pp_rebindkeys` and then close the console to reset what the game holds from your previous attempt and then only open the console again and load the new or changed map

Note: the predefined actions are the ones found in the SC 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.

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

Console .. Opens with the top left key usually right below the “Esc” key

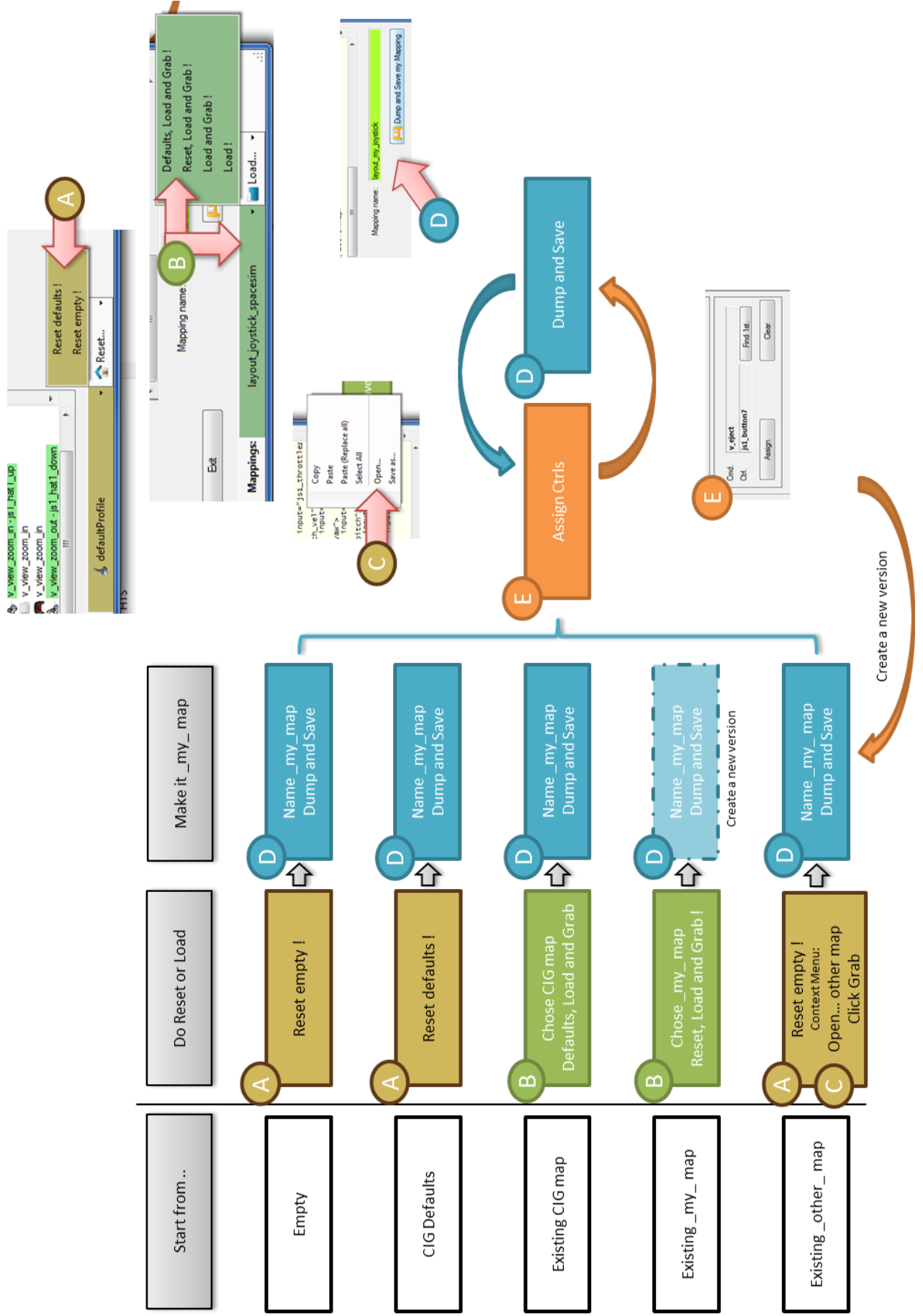
- depends on your keyboard

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 [cassini@burri-web.org](mailto:cassini@burri-web.org) 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 ...

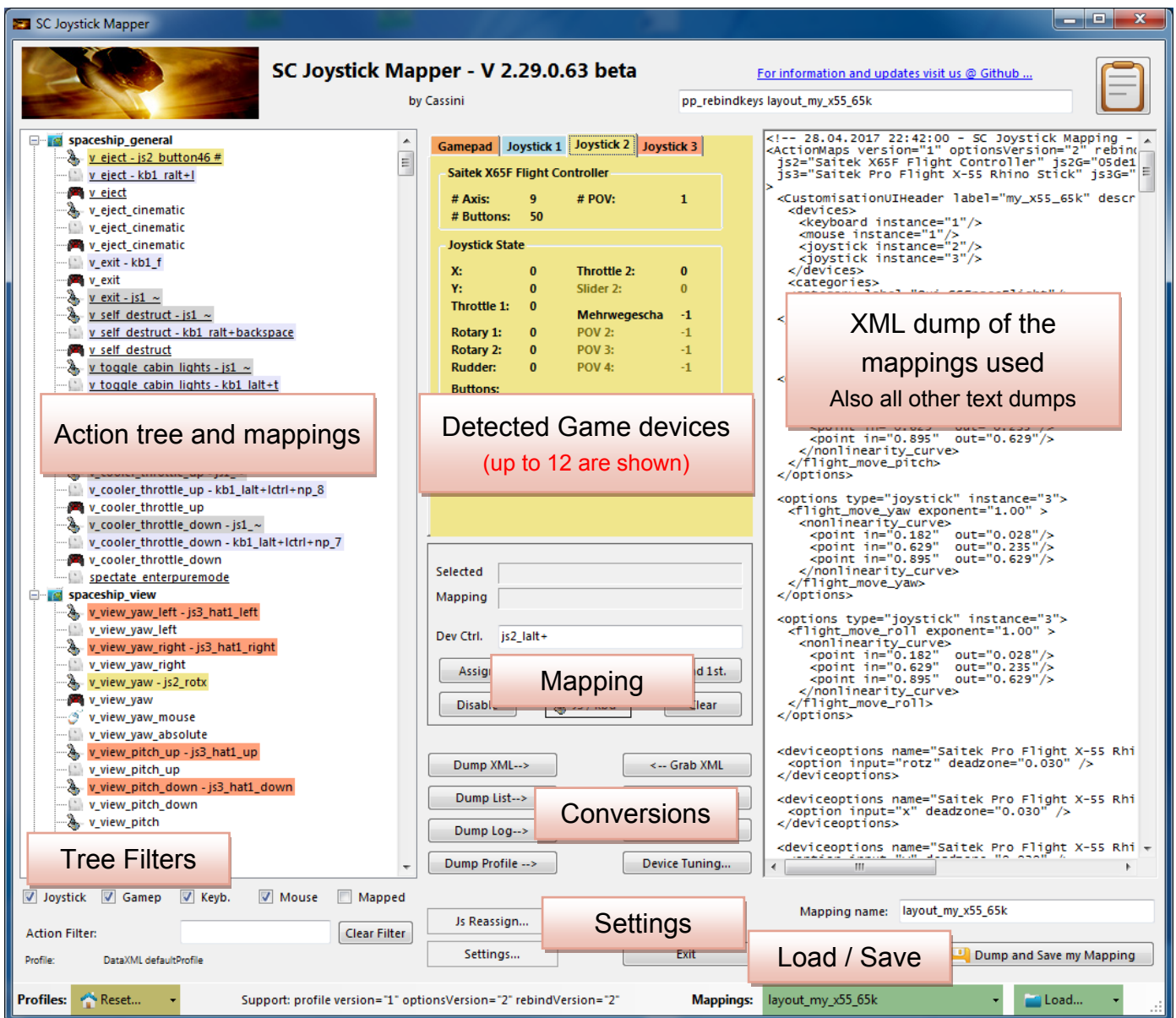
# SCJMapper V 2 – Common Workflows

## The Workflow



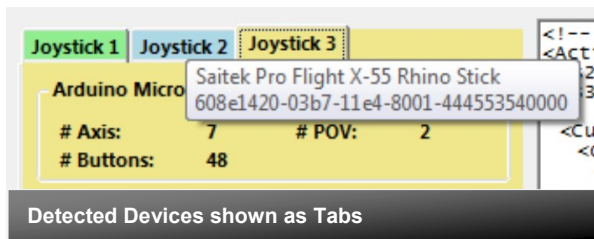
# The GUI

The user interface is all laid out for direct access — there are no menus



- ⇒ Action tree and mappings - shows the tree of action maps and actions derived from the defaultProfile directly from the game folders
- ⇒ There are some filters where you can limit the items shown in the tree
- ⇒ The program detects game devices - each one has its own tab
- ⇒ The XML area shows the outcome of the mapping and is what can be imported in the game directly
- ⇒ The Mapping area is where profile actions can be mapped individually to create the action mapping YOU want to use in the game

# Game Devices

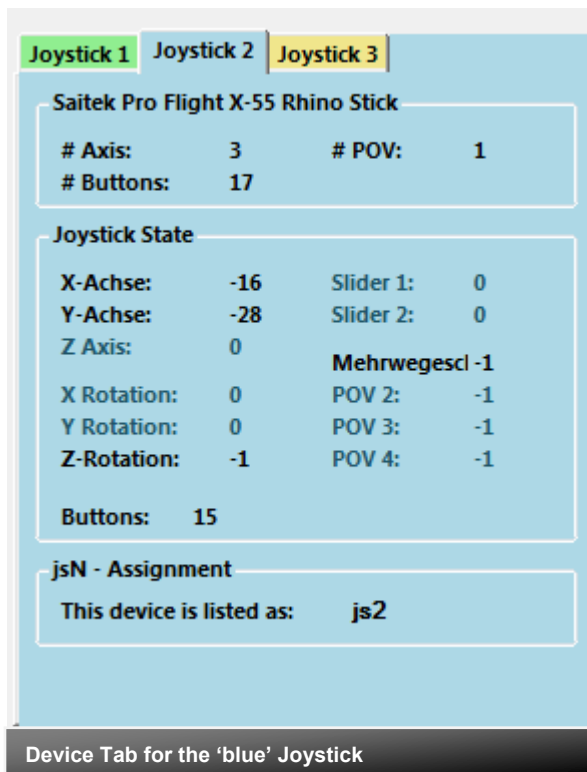


The tabs represent the game devices found connected to the PC. The program can show up to 12 devices.

The sequence 1..12 shows the order the PC reports them which is crucial to the mapping as this will result in the default js1\_, js2\_ .. Names used to build the command name.

A summary of the capabilities is shown in the top area.

A tooltip indicates the real name of the device - move and point the mouse to any Tab to show the indicator.



The elements shown in 'Joystick State' are the ones the device seems to support – greyed ones are not available for this device.

You will see the actual jsN assignment - or 'not assigned'.

The SC-Device to Joystick Mapping is a separate window accessed by hitting the 'Js Reassign' button.

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

Note: the range for Axis is set to -1000 .. +1000 by the program and is not what other applications may show you.

# Action Tree and mappings

## Action Tree

The action tree is initially built from the games defaultProfile - so these are the known actions which are grouped along 'action maps' e.g. 'spaceship\_movement'. Each action is predefined for a specific device.

There are joystick, keyboard, mouse, and gamepad actions indicated by the icon. – This is given by the SC default profile and cannot be changed. An action may e.g. not be available for the joystick.

## Rebinding:

By 'rebinding' or mapping and action with a different control one does replace the default one.

Overwriting a keyboard action will result in having it available with a different command in the game.

You can only map actions using the same device as in the profile i.e. a keyboard action cannot be mapped with a joystick control.

If actions are mapped (as shown) the color indicates which device is mapped.

The device tab colors match the entries, keyboard and mouse have distinct colors. If the background is white - there is no current mapping given.

Unmapped actions are ignored.

Underlined items indicate an ActionModifier is applied in defaultProfile

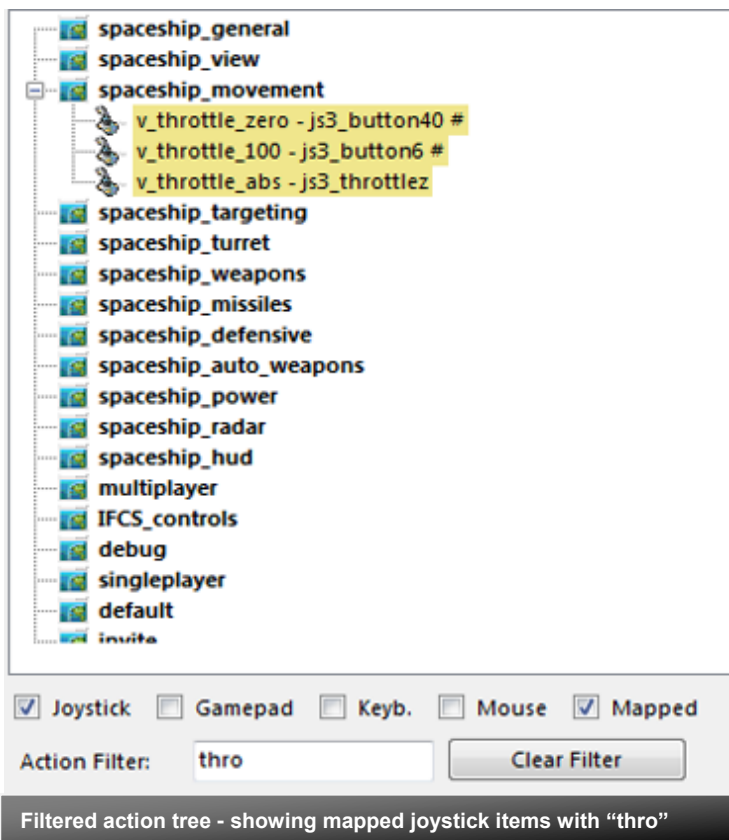
## Selecting an Action:

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



A regular action tree

# Action Tree Filters



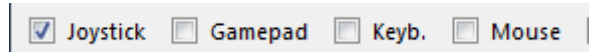
NOTE: Filters only restrict the items shown in the tree

## Action Tree Filters

The action tree has a vast number of entries. So for convenience you may filter the shown items to the one you are interested in.

## Device Filter

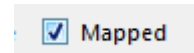
With the checkboxes at the bottom you may restrict the shown item to a particular category.



Check categories you want to see

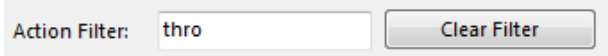
## Mapped Only

Restricts to show only mapped items



## Action Filter

Accepts text entry to match parts of the action name



## Clear Filter

To empty the 'Action Filter' field

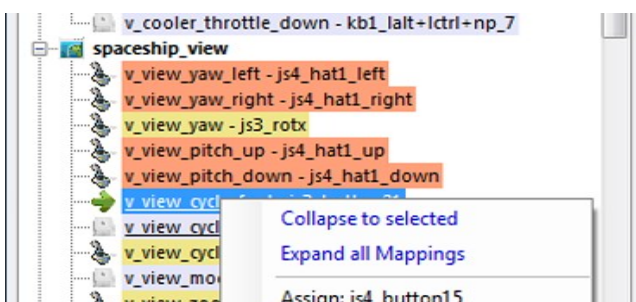
## Collapse / Expand

Use this context menu to unclutter the tree view.

Select an entry and 'Collapse to selected' to only show the actionmap items where the selected item belongs to.

Select 'Expand..' to ... expand the complete tree again.

Note: Using filters or loading a profile will expand the tree again.

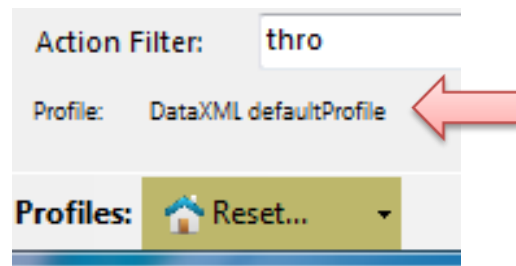


# Working with Profiles

## Working with profiles

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

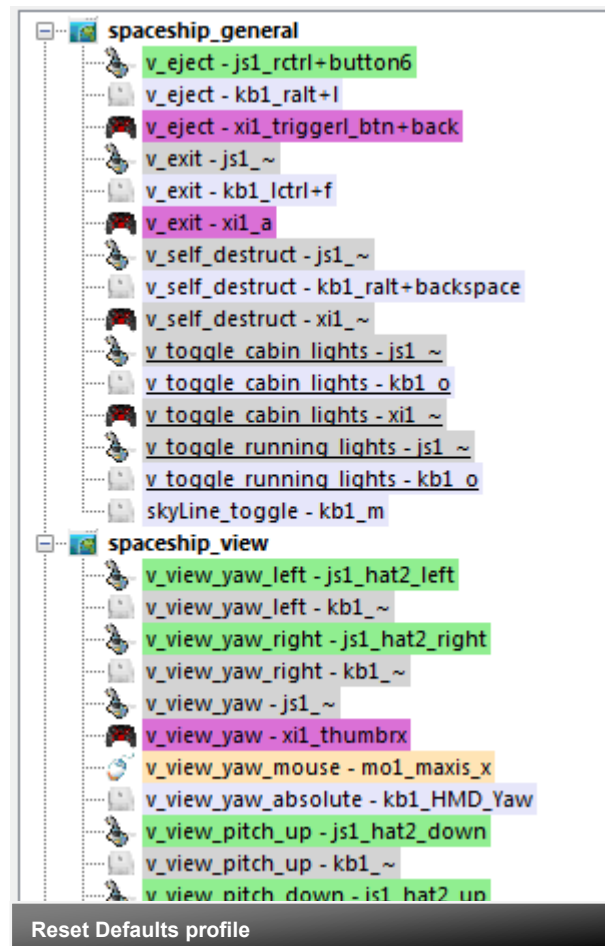
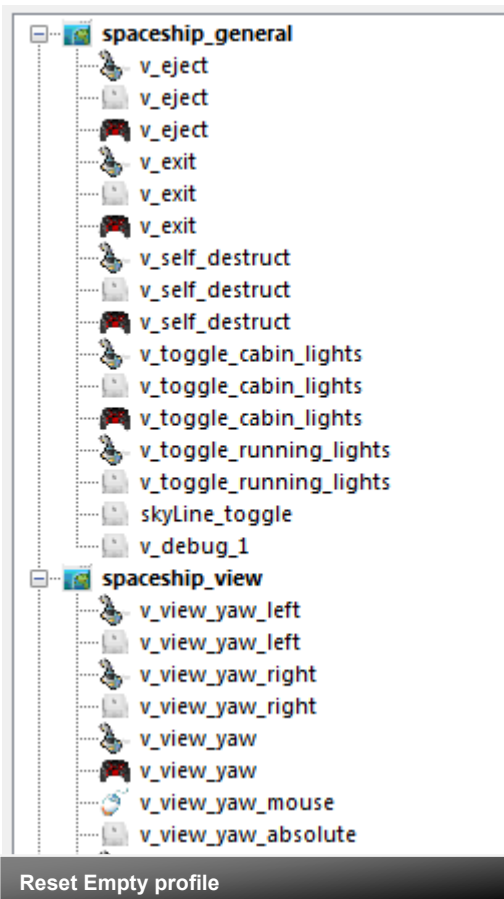
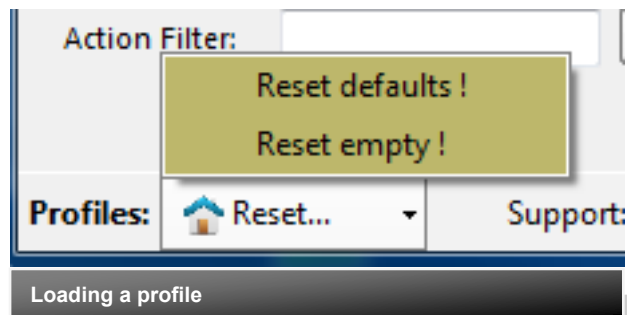
The in-game asset is used if **DataXML defaultProfile** is shown



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 in defaultProfile





# Mapping

Selected

Mapping

Dev Ctrl.

Throttle

Device Mode

Selected

Mapping

Dev Ctrl.

Throttle

Keyboard and Mouse Mode

Joystick 1 Joystick 2 Joystick 3

Saitek Pro Flight X-55 Rhino Stick

|            |    |        |   |
|------------|----|--------|---|
| # Axis:    | 3  | # POV: | 1 |
| # Buttons: | 17 |        |   |

Joystick State

|             |     |              |    |
|-------------|-----|--------------|----|
| X-Achse:    | -16 | Slider 1:    | 0  |
| Y-Achse:    | -28 | Slider 2:    | 0  |
| Z Axis:     | 0   | Mehrwegesc1: | -1 |
| X Rotation: | 0   | POV 2:       | -1 |
| Y Rotation: | 0   | POV 3:       | -1 |
| Z-Rotation: | -1  | POV 4:       | -1 |

Buttons: 15

jsN - Assignment

This device is listed as: js2

Device Tab for the 'blue' Joystick

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

**Dev Ctrl.** is the last item you activated on the currently shown device tab.

You may also map keyboard and mouse actions.

## Devices vs. Keyboard/Mouse

To switch between game devices and keyboard/mouse use the 'JS/Kbd' toggle.

Note: keyboard entries are accepted when the Ctrl. Field has the focus

## Select the device

To map a device control first select the device tab i.e. if you want to map a control of the second joystick you have to select the 'Joystick 2' Tab first.

## Assign

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 device it is assigned to.

## Throttles

To make any axis a Throttle axis – check the 'Throttle' box ! It is often the Z-Axis.

A throttle gets a name like js2\_throttlez.

## Clear Actions

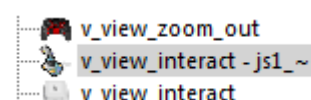
To clear a mapping – select it in the ActionTree and Click "Clear" - it gets a neutral color and no control in the ActionTree – it is now unmapped.

## Find a mapping

You may use "Find 1st" to find the first action where the currently shown Ctrl.

## Disabling

If you wish to disable a single item from the defaultProfile i.e. hide it from use select an item and then hit the 'Disable' button.



# Advanced Mapping

## Context Menu

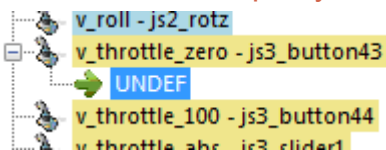
Right click an action opens a context menu giving a choice of functions that are possible right now.

**Assign, Disable, Clear** behave like the buttons in the main GUI

## Add Mapping

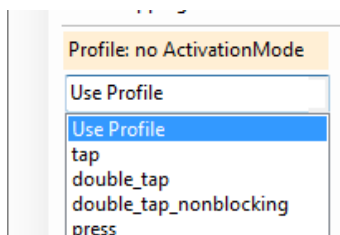
Will add a binding to the selected item to use a second control for this item. Such an addition can be mapped like the main entry - also deleted to remove it.

(Note: this does work partly in SC2.6)



## Activation Modes

Starting from Profile: there are activation modes listed. Profile indicates what is in the profile as default or 'no ActivationMode' if the profile does not apply one

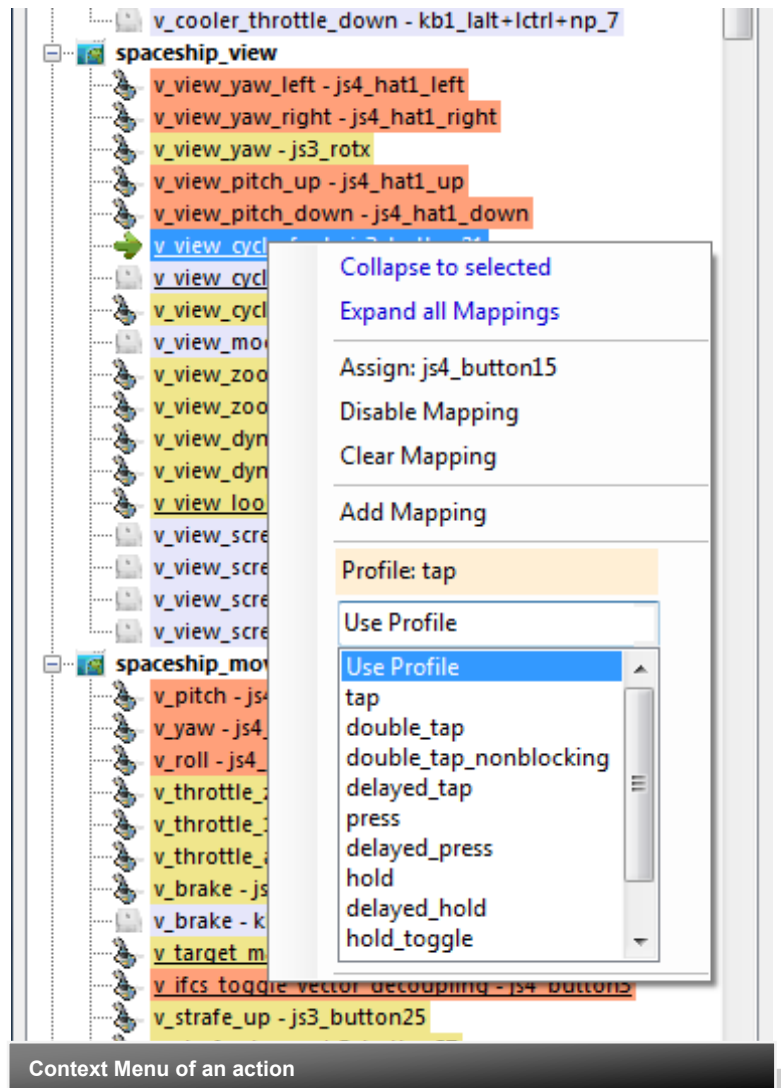


You may choose a new activation mode for this mapping which is then carried into the XML.

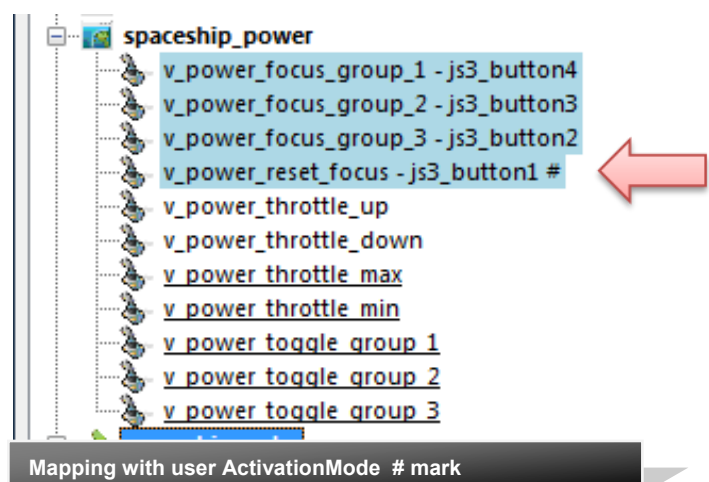
```
<actionmap name="spaceship_view">
  <action name="v_view_cycle_headlook_mode">
    <rebind input="js3_button21" ActivationMode="double_tap" />
  </action>
  <action name="v_view_toggle_headlook_mode">
    <rebind input="js3_rctrl+button21" />
  </action>
</actionmap>
```

Most notable are double\_taps which may be applied by CIG in the profile sometimes and are then carried into the mapping if not changed here.

Mappings with ActivationMode changes are marked with "#"

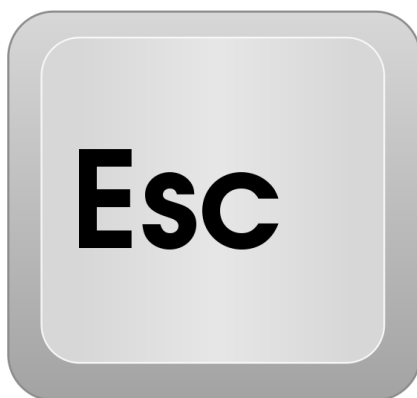
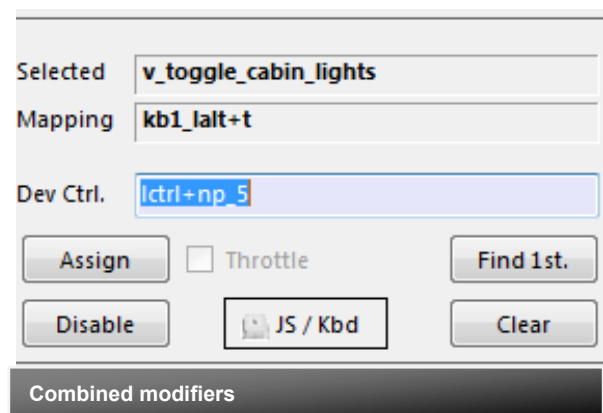
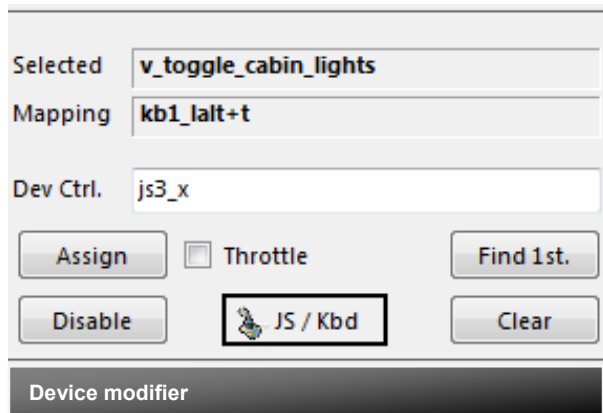


Context Menu of an action



Mapping with user ActivationMode # mark

# Joystick mapping with Modifiers



## Keyboard Modifiers

Controls can be extended with a Modifier. Right now only keyboard modifiers can be used for joysticks.

Modifiers are preset:

Left/right Shift / Alt / Ctrl keys

Modifiers can be combined.

If you press a modifier it will show up like 'lshift+lctrl+key'

For devices the notation is different - it is prepended by the device tag

E.g. js2\_lalt+y (js2\_y is the control that is modified here)

For keyboard input press all keys and release them at once.

Sometimes a second attempt is needed to create the proper key sequence.

## Clear Modifiers

To clear all modifiers from the input

**Press the ESC key for a moment.**

it will be cleared after ~3-4 seconds

# Mouse Mapping

## Adding Mouse Commands

Switch to Kbd Mode

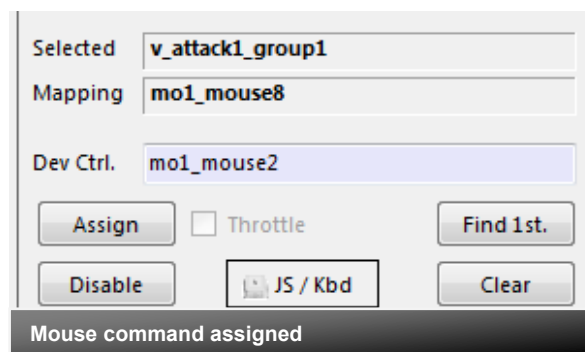
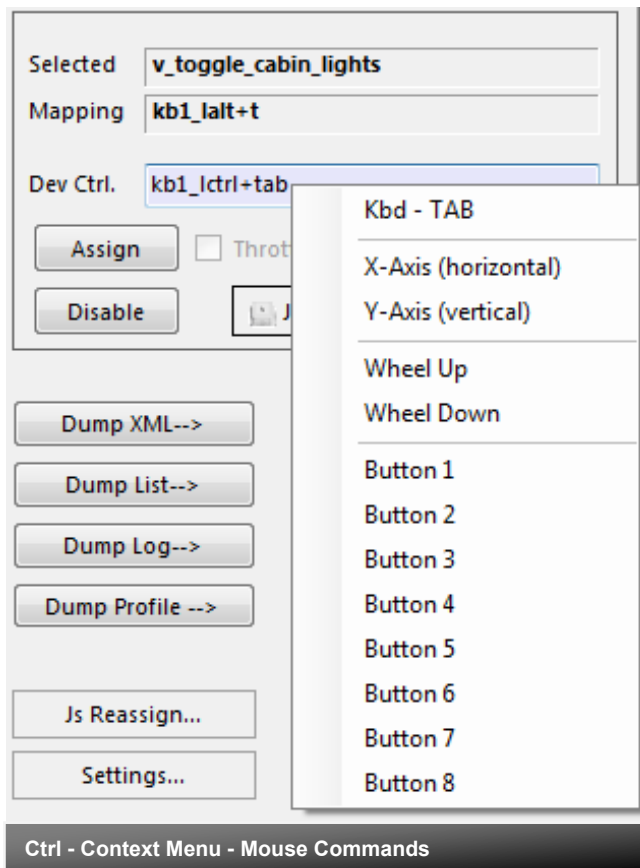


## Context Menu

Right clicking the 'Ctrl' entry field opens a context menu giving a choice of mouse commands that are possible right now.

The number of buttons is taken from the current mouse input setting - you may need to find out which one is 1,2 ...

Keyboard Tab is here as well as it cannot be entered (navigates the GUI).



## Modifiers from keyboard

Can be used to extend mouse commands



# XML Dump

## XML Format

Mappings are sent to the game using XML formatted files.

The XML Area is where you may find the mapping after hitting the 'Dump' button.

```
<options type="joystick" instance="2">
  <flight_move_roll exponent="1.00" >
    <nonlinearity_curve>
      <point in="0.182" out="0.028"/>
      <point in="0.629" out="0.235"/>
      <point in="0.895" out="0.629"/>
    </nonlinearity_curve>
  </flight_move_roll>
</options>

<deviceoptions name="Saitek Pro Flight X-55 Rhino" >
  <option input="x" deadzone="0.025" />
</deviceoptions>

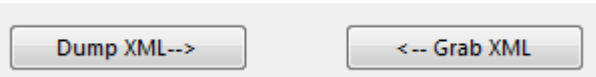
<deviceoptions name="Saitek Pro Flight X-55 Rhino" >
  <option input="y" deadzone="0.025" />
</deviceoptions>

<deviceoptions name="Saitek Pro Flight X-55 Rhino" >
  <option input="rotz" deadzone="0.025" />
</deviceoptions>

<actionmap name="spaceship_general">
  <action name="v_eject">
    <rebind input="js3_ralt+button24" />
  </action>
  <action name="v_exit">
    <rebind input="js3_button23" />
  </action>
  <action name="v_toggle_cabin_lights">
    <rebind input="js3_button18" />
  </action>
  <action name="v_toggle_running_lights">
    <rebind input="js3_button22" />
  </action>
</actionmap>

<actionmap name="spaceship_view">
  <action name="v_view_cycle_fwd">
    <rebind input="js3_button13" />
  </action>
  <action name="v_view_mode">
    <rebind input="js3_button17" />
  </action>
</actionmap>
```

XML Dump of an action map



## The Context Menu

Right click opens a menu where you may choose from:

Copy, Paste, PasteAll, Select All, Open..., Save As...

The usage is rather common here. Once you dumped the mapping you want to "Save" it as "filename.xml" somewhere.

To refine any mapping "Open" the file – the content is shown in the XML Area, then "Grab" it into the ActionTree. Once the refinement is finished – again Save it to a file.

Note: only use properly formatted ActionMaps here. The program may just break if it encounters something unexpected!

# Action maps

## Working with action maps

(Maps, Mapping etc..)

The program gets the action maps from the USERS game asset – so you are always up to the actual values.

(...\StarCitizen\Public\USER\Controls\Mappings)

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

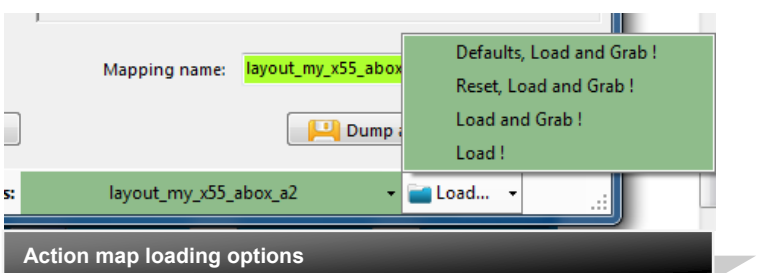
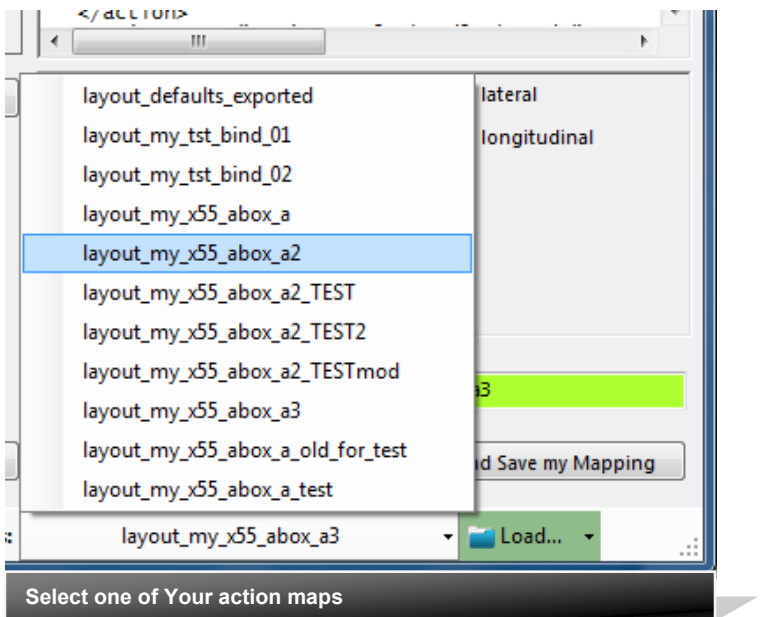
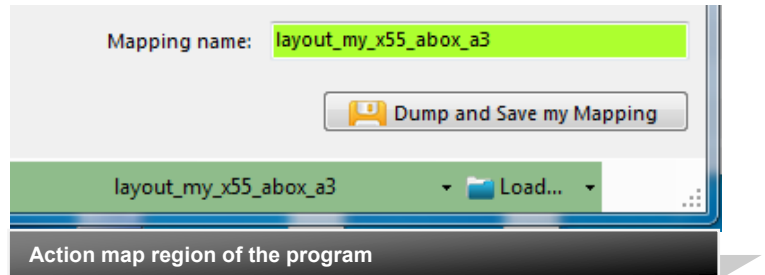
-LOAD loads the map into the XML window only

-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 page 3 for some common workflows And how to handle them easily.



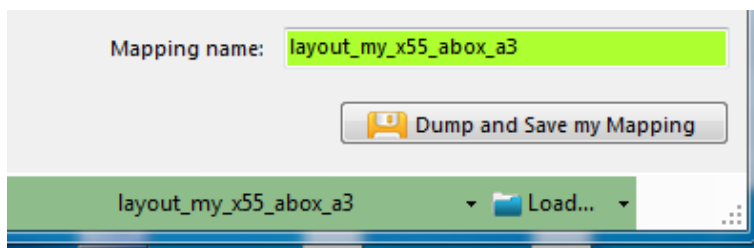
# Your Actionmaps

## Working with your own actionmaps

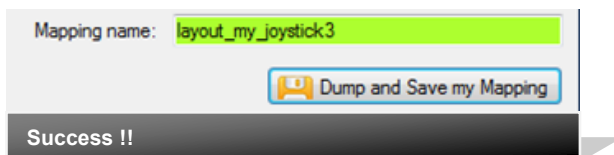
The program not only gets the actionsmaps from the real game asset – but also can save your maps there.

(...\StarCitizen\Public\USER\Controls\Mappings)

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



Remark: your map name has always to start with '**layout\_my\_**' to prevent conflicts with CIGs own actionmaps  
Lowercase only, no spaces, tabs allowed else you see the red flag ..



A successful Save will show the green flag

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.

# Actiontree as table

Actiontree as Table

| REF_ActionMap        | ActionName              | Device   | Def_Binding        | Def_Modifier  | AddBind                  | Usr_Binding         | Usr_Modifier  | Disabled                            |
|----------------------|-------------------------|----------|--------------------|---------------|--------------------------|---------------------|---------------|-------------------------------------|
| 01-spaceship_general | v_eject                 | joystick | js1_rctrl+button6  | double_tap    | <input type="checkbox"/> | js9_button46        | delayed_press | <input type="checkbox"/>            |
| 01-spaceship_general | v_eject                 | keyboard | kb1_ralt+l         | double_tap    | <input type="checkbox"/> | kb1_ralt+l          | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_eject                 | xboxpad  | xi1_shoulderl+s... | double_tap    | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_exit                  | keyboard | kb1_f              | Use Profile   | <input type="checkbox"/> | kb1_f               | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_exit                  | xboxpad  | xi1_y              | Use Profile   | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_exit                  | joystick | js1_~              | press         | <input type="checkbox"/> | js1_~               | Use Profile   | <input checked="" type="checkbox"/> |
| 01-spaceship_general | v_self_destruct         | joystick | js1_~              | delayed_press | <input type="checkbox"/> | js1_~               | Use Profile   | <input checked="" type="checkbox"/> |
| 01-spaceship_general | v_self_destruct         | keyboard | kb1_ralt+backs...  | delayed_press | <input type="checkbox"/> | kb1_ralt+backs...   | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_self_destruct         | xboxpad  | xi1_shoulderl+s... | delayed_press | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_toggle_cabin_lights   | joystick | js1_~              | smart_toggle  | <input type="checkbox"/> | js1_~               | Use Profile   | <input checked="" type="checkbox"/> |
| 01-spaceship_general | v_toggle_cabin_lights   | keyboard | kb1_lalt+t         | smart_toggle  | <input type="checkbox"/> | kb1_lalt+t          | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_toggle_cabin_lights   | xboxpad  | xi1_shoulderl+d... | smart_toggle  | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_toggle_running_lights | joystick | js1_~              | smart_toggle  | <input type="checkbox"/> | js1_~               | Use Profile   | <input checked="" type="checkbox"/> |
| 01-spaceship_general | v_toggle_running_lights | keyboard | kb1_lalt+t         | smart_toggle  | <input type="checkbox"/> | kb1_lalt+t          | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_starmap               | keyboard | kb1_home           | press         | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_cooler_throttle_up    | joystick | js1_~              | Use Profile   | <input type="checkbox"/> | js1_~               | Use Profile   | <input checked="" type="checkbox"/> |
| 01-spaceship_general | v_cooler_throttle_up    | keyboard | kb1_lalt+np_8      | Use Profile   | <input type="checkbox"/> | kb1_lalt+lctrl+n... | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_cooler_throttle_up    | xboxpad  | xi1_~              | Use Profile   | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_cooler_throttle_down  | joystick | js1_~              | Use Profile   | <input type="checkbox"/> | js1_~               | Use Profile   | <input checked="" type="checkbox"/> |
| 01-spaceship_general | v_cooler_throttle_down  | keyboard | kb1_lalt+np_7      | Use Profile   | <input type="checkbox"/> | kb1_lalt+lctrl+n... | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | v_cooler_throttle_down  | xboxpad  | xi1_~              | Use Profile   | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 01-spaceship_general | spectate_enterpuremode  | keyboard | kb1_rctrl+insert   | delayed_press | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 02-spaceship_view    | v_view_yaw_left         | joystick | js1_hat2_left      | Use Profile   | <input type="checkbox"/> | js4_hat1_left       | Use Profile   | <input type="checkbox"/>            |
| 02-spaceship_view    | v_view_yaw_left         | keyboard | kb1_~              | Use Profile   | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |
| 02-spaceship_view    | v_view_yaw_right        | joystick | js1_hat2_right     | Use Profile   | <input type="checkbox"/> | js4_hat1_right      | Use Profile   | <input type="checkbox"/>            |
| 02-spaceship_view    | v_view_yaw_right        | keyboard | kb1_~              | Use Profile   | <input type="checkbox"/> |                     | Use Profile   | <input type="checkbox"/>            |

Action Filter:  Clear

Def Bind Filter:  Clear

Usr Bind Filter:  Clear

Joystick  Gamepad  Mouse  Kbd

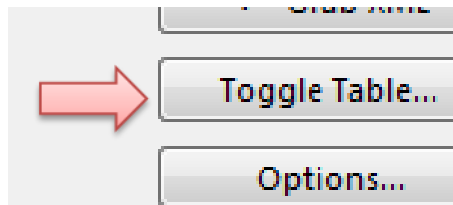
Edit Disable  Disable all Unmapped

Accept Edits Undo Edits

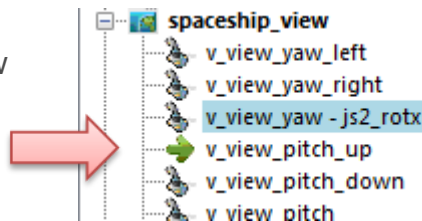
Actiontree can be show as table

## Actiontree as table

“Toggle Table...” will show and hide the Table window (above)



Double clicking a row or clicking the row header will select this item in the Main Windows Action Tree (green arrow).



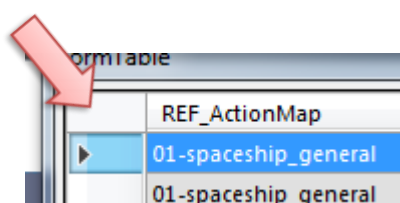
The table can be filtered with either text and/or the checkboxes  
(Note: those filters are not linked with the ones for the main action tree)



The table can be sorted by clicking any active column header.

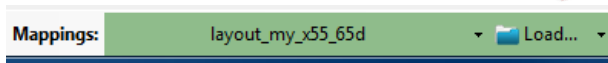
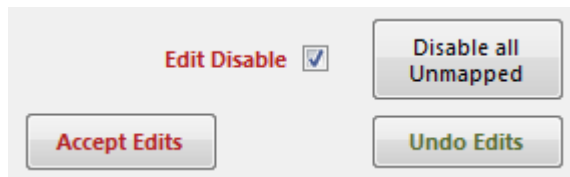
| REF_ActionMap | ActionName           | Device   | Def_Bind  |
|---------------|----------------------|----------|-----------|
| 20-player     | attack1              | keyboard | kb1_mou   |
| 18-default    | cam_toggle_cinematic | keyboard | kb1_ralt+ |
| 18-default    | cancel_cinematic     | keyboard | kb1_spac  |
| 20-player     | cancelselect         | keyboard | kb1_mou   |

Clicking the leftmost (empty) column sorts the table along the initial Actiontree order.





# Fast Disabling with a table



Read about Disabling also later in this document..

Hints - What about commands you really don't want to be mapped in game ?

## Edit Disabling

The only editable item in this table is "Disabled". First enable edit with the checkbox. Then click on any of the checkboxes in the 'Disabled' column. **Undo** will revert, **Accept** carries all the changes to the main tree but they are not saved yet.

## Disable all Unmapped

Will disable all **unmapped** entries that are currently visible in the action tree. I.e. use the checkboxes / filters to limit the visible items in the action tree.

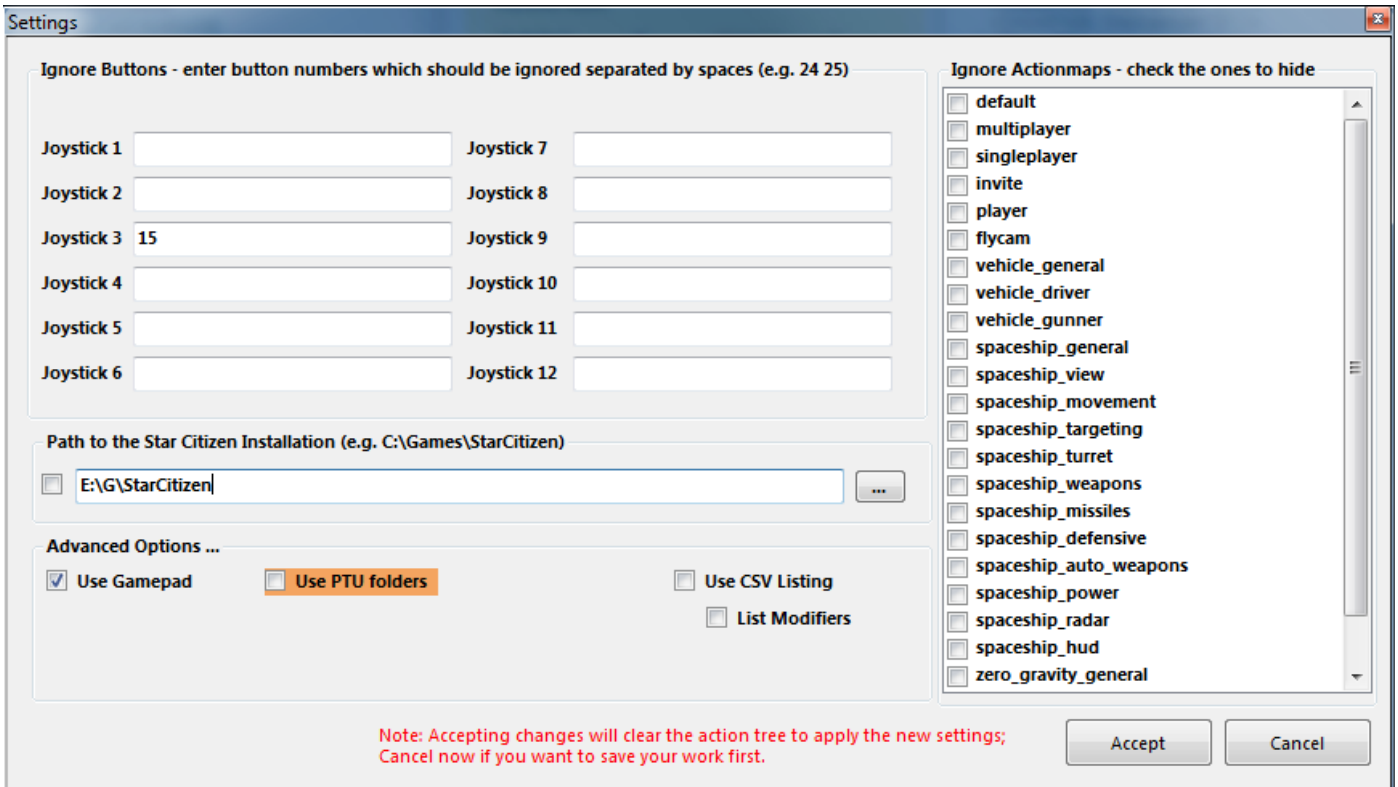
(Note: if you want to discard those changes after "Accept Edits" — "Load.." the map again)

Note: there is an oddity when changing 'Disabled' and the table is sorted by 'Usr\_Binding'. As it immediately resorts the table after accepting the edit the changed entry is moved somewhere else. If you click another one below it may then have moved already and the click goes wrong. This is intrinsic and cannot be changed.

So if you want to fast apply disabling by clicking one after the other item either do NOT sort by 'Usr\_Binding' OR if you must - start checking against the sort order i.e. if sorted ascending start checking from bottom to top.

Space for future use ...

# Settings



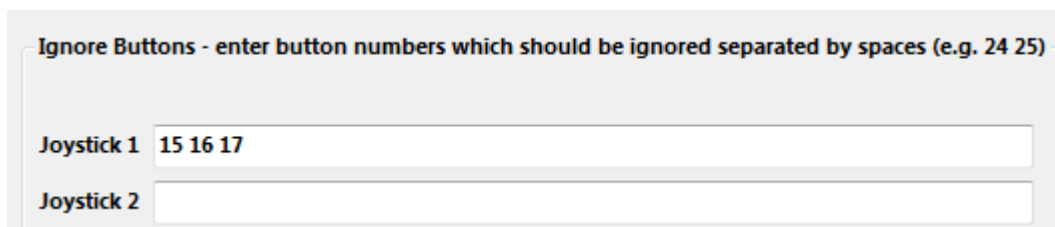
There are a number of setting you may need to do for efficient working..

Settings...

## Ignore Buttons

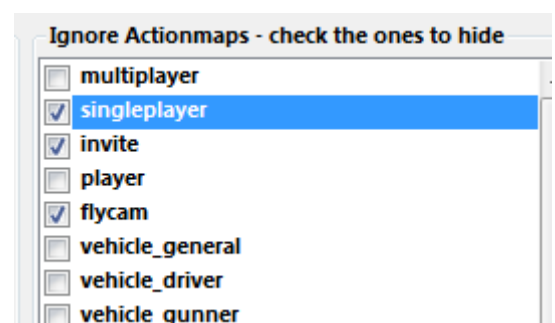
Some devices have buttons pressed to switch modes. I may be needed to 'ignore' them to get proper readouts for mapping.

Enter the numbers with a space between - like in the example below



## Ignore Action maps

You may not want to deal with all the maps provided by the game - check the ones you want to ignore those maps are hidden from you and will not be processed once ignored.



# Settings (2)

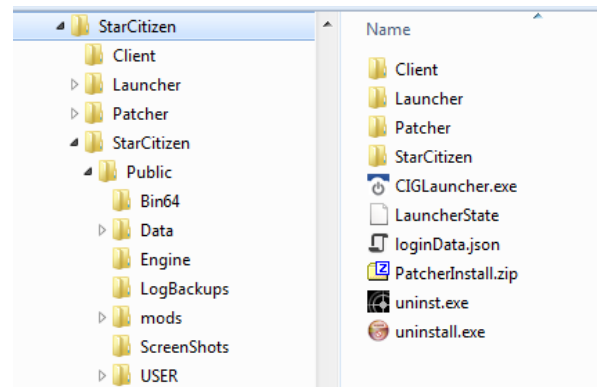
## Providing a path to the game

In general the program finds the path to the game on its own, however if not, you may direct it to use a given path



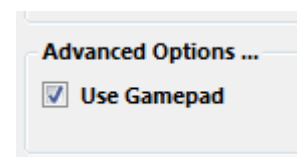
The path should be the top folder of the SC installation

Make sure to check the left box to use the path



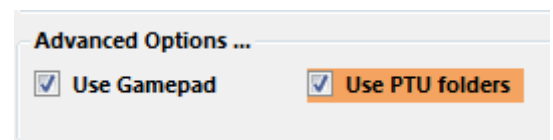
## Use Gamepad

The gamepad needs special treatment - if you want to use a gamepad you have to check the box.

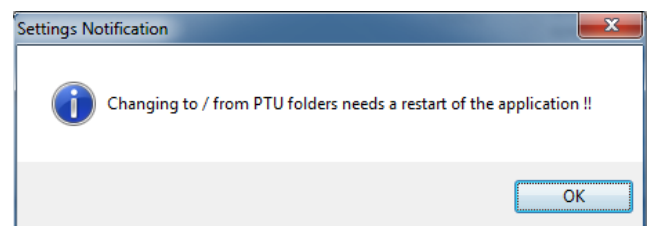


## Using PTU Folders

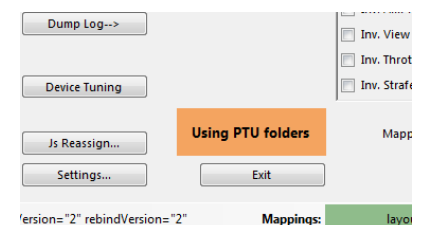
In general the program finds its files in the Public subfolder of the Game installation path. If you are running PTU and want to work with the Test environment - check this box



Changing to and from PTU requires a restart!



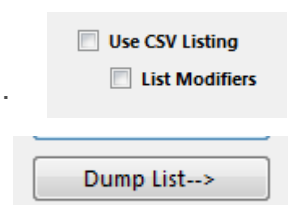
Once in PTU mode the program indicates this as shown below



## Listing Actiontrees as CSV list

The actiontree can be listed in CSV format and with copy/paste or Save then used in a spreadsheet or database program. Optional the modifiers are listed. The list is created with "Dump List"

Note: use the various options to e.g. create a list from the default profile or your map with or without the CIG standard layout. See also Hints on page 24 !!



# Joystick Assignment

| Joystick   | Device Name                        | Assigned Number |
|------------|------------------------------------|-----------------|
| Joystick 1 | vJoy Device                        | n.a.            |
| Joystick 2 | Saitek Pro Flight X-55 Rhino Stick | js2             |
| Joystick 3 | Arduino Micro                      | js3             |
| Joystick 4 |                                    |                 |
| Joystick 5 |                                    |                 |
| Joystick 6 |                                    |                 |
| Joystick 7 |                                    |                 |
| Joystick 8 |                                    |                 |

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

Js Reassign...

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.

Related SC console commands are:

```
i_DumpDeviceInformation
```

```
pp_ResortDevices joystick 1 2
```

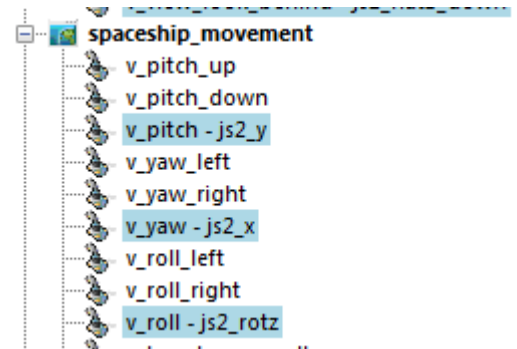
```
pp_rebindkeys export joystick  
pp_rebindkeys export xboxpad
```

# Device Tuning 1/3

There are options provided to tune the reaction of a game device

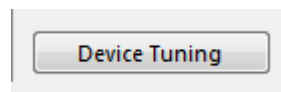
Use 'Device Tuning' to optimize it, it supports:

- Deadzone
- Sensitivity
- Invert
- either Exponent or NonLinearCurve independently for the Yaw-, Pitch-, and Roll- axes or the Strafe axes



Note: Tuning will only recognize mapped controls

Hit the 'Device Tuning' button to open the tuning window



**Joystick Tuning**

Annotations:

- Actual mapping for the axis
- Live View of the joystick movement
- Tuning parameters of the axis
- Tuning parameters of the active axis
- Joystick IN-> OUT map
- Turnspeed [seconds per full turn]
- Damping - how fast will a movement stop (1=fast)
- Activate an axis
- Switch group
- Live IN - OUT values scaled 0..1
- Changing Skies

Y-axis Tuning Parameters (Example for Yaw):

| Parameter  | Value                    |
|------------|--------------------------|
| Invert     | <input type="checkbox"/> |
| Deadzone   | 0.030                    |
| Saturation | 1.000                    |
| Exponent   | 1.000                    |
| Pt1        | 0.182 0.028              |
| Pt2        | 0.629 0.235              |
| Pt3        | 0.895 0.629              |

IN(x) OUT(y) Table:

| IN(x) | OUT(y) |
|-------|--------|
| 0.182 | 0.028  |
| 0.629 | 0.235  |
| 0.895 | 0.629  |

# Device Tuning 2/3

**How to...**

There is one active axis – the color frame of the chart indicates the active one (here blue = Yaw) 1

Parameters can be manipulated for the active axis only.

Switch the active one by clicking the Yaw, Pitch, Roll Option (bottom, left) 2

Or change the group to and from Strafe to YPR 2a

Activating a tuning parameter will activate too

Parameters must be 'checked' to be used 3

e.g. Deadzone and NonLinearCurve (Pt1..3) are checked for Yaw

Each axis has it's own set of parameters

Active and Checked (Enabled) parameters can be changed. 3

Deadzone is a simple slider from 0.0 to 0.15 (try it out in the live view)

All other parameters are handled by first choosing it (e.g. Point 1) 4

Changing the value by first left click and hold into the chart area, then moving the mouse up-down and left-right to adjust – then release the mouse button.

Point 1 is usually the leftmost orange marker 5

If you wish to copy the Curve Points to all other axis – click the Copy button 6

Sensitivity and Exponent will only go with up-down movement of the mouse

Active and Checked (Enabled) parameters can be changed. 3

Deadzone is a simple slider from 0.0 to 0.15 (try it out in the live view)

All other parameters are handled by first choosing it (e.g. Point 1) 4

Changing the value by first left click and hold into the chart area, then moving the mouse up-down and left-right to adjust – then release the mouse button.

Point 1 is usually the leftmost orange marker 5

If you wish to copy the Curve Points to all other axis – click the Copy button 6

Sensitivity and Exponent will only go with up-down movement of the mouse

... Here Roll (Green) is active and Exponent is chosen to be changed. 1

By click, hold and moving down – the exponent was changed from 1.47 to 2.83

The curve represents IN vs OUT of the joystick

If you move the joystick the 'Live' fields will report what's going on:

Sometimes it is helpful to just disable one direction of the movement 3

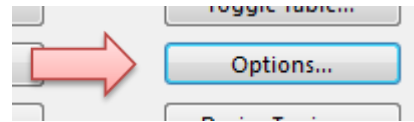
Check OFF for any axis (it just disables it for the Live View)



# Device & Action Options 1/2

V2.28 added

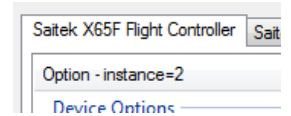
Open the **Options ...** window to access this feature



*Device Options* are the ones tied to a certain device e.g. a joystick axis.

*Action Options* are grouped into different kind of actions e.g. flight\_move group similar to the actionmap grouping (but not exactly the same..) AND they are tied to a device and "instance" i.e. the jsN number for joysticks. (The X65F is js2 in this example).

➔ The dialog will also track which control is assigned to which action and show it in the rows accordingly



- There is one tab for each device that is used - here we have the two joysticks.
- You click into a row to edit the settings.

➔ There are only Saturation and Deadzone available for *Device Options*.  
 For *Action Options* there are tuning parameters available and if an action is mapped both kind of edits are made available for convenience.

Note: Editing is the same as described in the previous chapter for Device Tuning.

**JMapper - Options**

Saitek X65F Flight Controller | Saitek Pro Flight X-55 Rhino Stick

| Option - instance=3             | Dev Control | Saturation | Deadzone | Invert | Expo. | Curve P1      | Curve P2 |
|---------------------------------|-------------|------------|----------|--------|-------|---------------|----------|
| <b>Device Options</b>           |             |            |          |        |       |               |          |
| rotz                            | v_roll      | --         | 0.030    |        |       |               |          |
| x                               | v_yaw       | --         | 0.028    |        |       |               |          |
| y                               | v_pitch     | --         | 0.028    |        |       |               |          |
| <b>flight_move</b>              |             |            |          |        |       |               |          |
| flight_move_pitch               | js3_y       |            |          | no     | --    | 0.182 / 0.028 | 0.629    |
| flight_move_yaw                 | js3_x       |            |          | no     | --    | 0.182 / 0.028 | 0.629    |
| flight_move_roll                | js3_rotz    |            |          | no     | --    | 0.182 / 0.028 | 0.629    |
| flight_move_strafe_vertical     |             |            |          | no     | --    | --/--         |          |
| flight_move_strafe_lateral      |             |            |          | no     | --    | --/--         |          |
| flight_move_strafe_longitudinal |             |            |          | no     | --    | --/--         |          |
| <b>flight_throttle</b>          |             |            |          |        |       |               |          |
| flight_throttle_abs             |             |            |          | no     | --    | --/--         |          |
| flight_throttle_rel             |             |            |          | no     | --    | --/--         |          |
| <b>flight_aim</b>               |             |            |          |        |       |               |          |
| flight_aim_pitch                |             |            |          | no     | --    | --/--         |          |
| flight_aim_yaw                  |             |            |          | no     | --    | --/--         |          |
| <b>flight_view</b>              |             |            |          |        |       |               |          |
| flight_view_pitch               |             |            |          | no     | --    | --/--         |          |
| flight_view_yaw                 |             |            |          | no     | --    | --/--         |          |
| <b>Turret_aim</b>               |             |            |          |        |       |               |          |
| turret_aim_pitch                |             |            |          | no     | --    | --/--         |          |
| turret_aim_yaw                  |             |            |          | no     | --    | --/--         |          |

**Graph: v\_yaw - js3\_x**

0.028 Select an option then click and drag

Exponent Exponent: 0.000

Curve

| Point   | IN(x) | OUT(y) |
|---------|-------|--------|
| Point 1 | 0.182 | 0.028  |
| Point 2 | 0.629 | 0.235  |
| Point 3 | 0.895 | 0.629  |

Invert

None

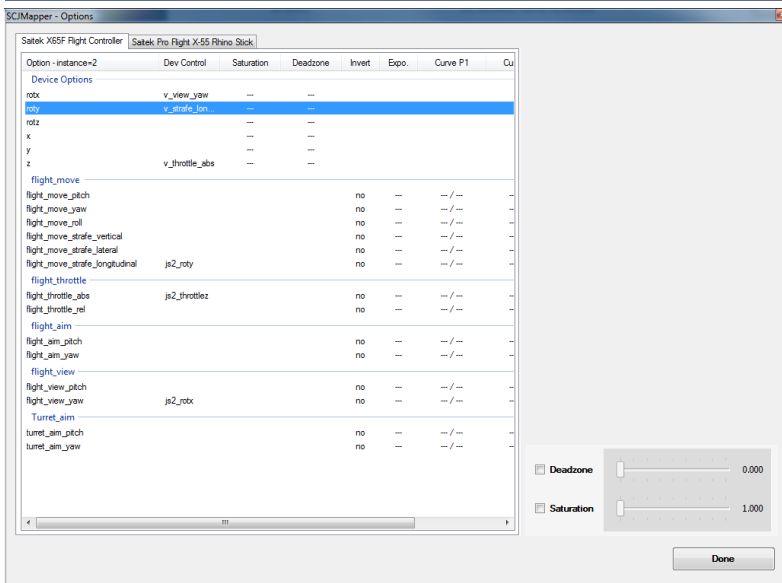
Deadzone 0.028

Saturation 1.000

Done

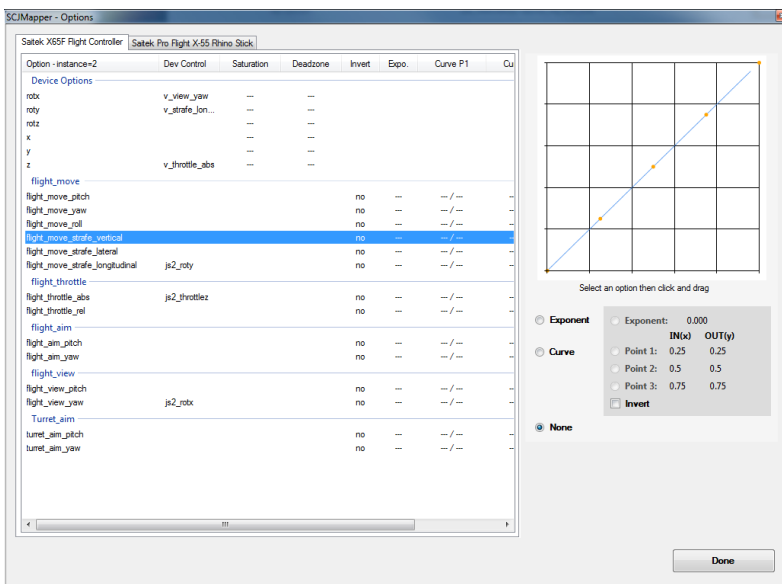


# Device & Action Options 2/2



## Device Options

Enable /Disable Deadzone and Saturation with the checkboxes, use the slider to control the value of an enabled item.



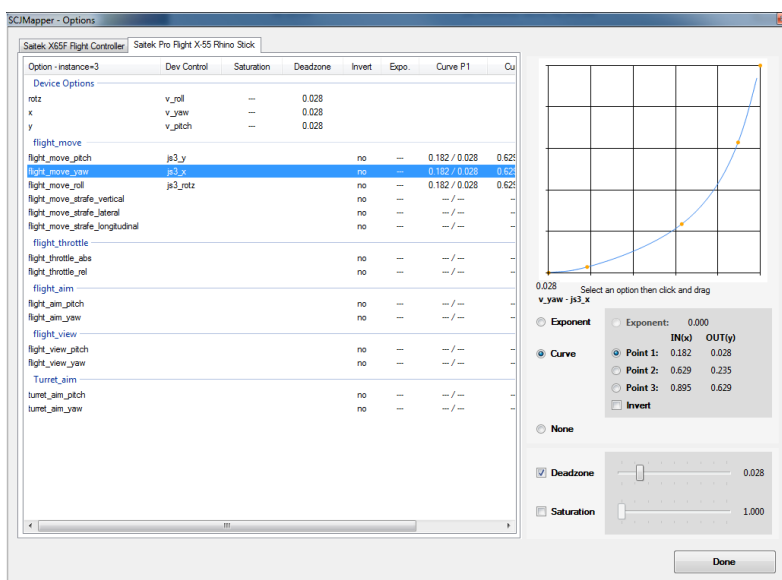
## Action Options

Use the radio buttons to select one of the tuning kinds (Exponent, Curve or None)

Click and drag the curve or points in the grid.

Check Invert to invert this action

None will disable the tuning but not Invert



Here is a mapped action selected.

This enables the tuning items but also the related device options of the mapped control

Note: tuning of unmapped items will not make a lot of sense but you may later assign a control to the action and then the tuning becomes active in the mapping.

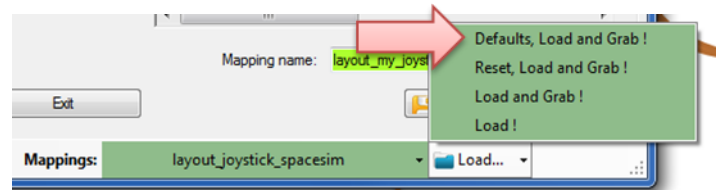
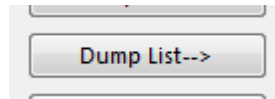
Also note that this is how CIG treats the Options - the program is just following the rules..

# Hints ...

## How to get a list of all game commands when using a map file?

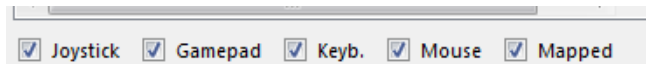
- Load a map using 'Defaults'

- Hit 'Dump List'



... Gets you the complete list of commands in use if you load that map in game

- Right click in the listing to get a context menu to Copy / Paste or Save As..
- The mapping filter checkboxes can be used to limit the listed items



```

*** spaceship_auto_weapons
v_weapon_toggle_ai          . kb1 _ slash          . [1] Use Profile

*** spaceship_power
v_power_focus_group_1      + js3 _ button4        . [1] Use Profile
v_power_focus_group_1      . kb1 _ 1              . [1] Use Profile
v_power_focus_group_2      + js3 _ button3        . [1] Use Profile
v_power_focus_group_2      . kb1 _ 2              . [1] Use Profile
v_power_focus_group_3      + js3 _ button2        . [1] Use Profile
v_power_focus_group_3      . kb1 _ 3              . [1] Use Profile
v_power_reset_focus        + js3 _ button1        . [1] Use Profile
v_power_reset_focus        . kb1 _ 0              . [1] Use Profile
v_power_throttle_up        + js3 _ button6        # [2] double_tap
v_power_throttle_up        . kb1 _ np_add         . [1] Use Profile
v_power_throttle_down      + js3 _ rctrl+button6  . [1] Use Profile
v_power_throttle_down      . kb1 _ np_subtract    . [1] Use Profile
v_power_throttle_max       + js3 _ button5        # [1] press
v_power_throttle_max       . kb1 _ np_add         # [2] double_tap
v_power_throttle_min       + js3 _ rctrl+button5  # [1] tap
v_power_throttle_min       . kb1 _ np_subtract    . [2] double_tap
v_power_toggle_group_1     + js3 _ rctrl+button4  . [1] smart_toggle
v_power_toggle_group_1     . kb1 _ 4              . [1] smart_toggle
v_power_toggle_group_2     + js3 _ rctrl+button3  . [1] smart_toggle
v_power_toggle_group_2     . kb1 _ 5              . [1] smart_toggle
v_power_toggle_group_3     + js3 _ rctrl+button4  . [1] smart_toggle
v_power_toggle_group_3     . kb1 _ 6              . [1] smart_toggle

*** spaceship_radar
v_radar_toggle_onoff      + js3 _ button16       . [1] Use Profile
v_radar_toggle_active_or_passive + js3 _ button37       . [1] Use Profile
v_radar_toggle_active_or_passive . kb1 _ period         . [1] Use Profile
v_radar_cycle_mode_fwd    + js3 _ button15       . [1] Use Profile
v_radar_cycle_zoom_fwd    + js3 _ button14       . [1] Use Profile
v_radar_cycle_zoom_fwd    . kb1 _ comma         . [1] Use Profile
v_radar_cycle_focus_fwd   + js3 _ button13       . [1] Use Profile
v_radar_toggle_view_focus + js3 _ rctrl+button13 . [1] Use Profile

*** spaceship_hud
v_hud_cycle_mode_fwd      . kb1 _ apostrophe     . [1] Use Profile
v_hud_cycle_mode_back     . kb1 _ semicolon      . [1] Use Profile
v_hud_focused_cycle_mode_fwd . xi1 _ shoulderr      . [1] Use Profile
v_hud_focused_cycle_mode_back . xi1 _ shoulderl     . [1] Use Profile
v_hud_open_tab1          . kb1 _ f1             . [1] Use Profile
    
```

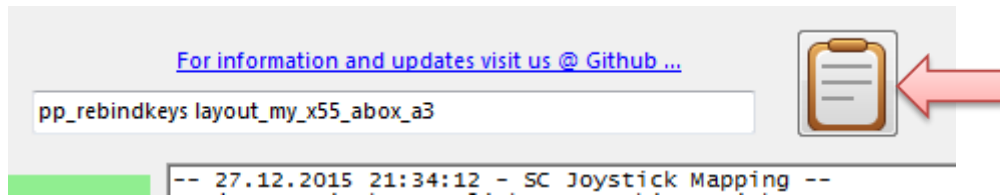
V2.18 added:

For bindings and activation:

- . indicates a profile entry i.e. a default setting
- + indicates a user mapping
- # indicates a user ActivationMode setting

# Hints ...

## How to use pp\_rebindkeys easy in the game ?



- Clicking the Notepad icon top right copies the pp\_rebindkeys command into the Clipboard – from there just Ctrl-V it into the SC console..

Note: if you want to be sure to apply only your new map first type pp\_rebindkeys without a file and then Enter - the response of the game should be - loaded factory defaults ... Then use the command with your mapname (without the .xml extension)

## How to apply keyboard commands and modifiers ?

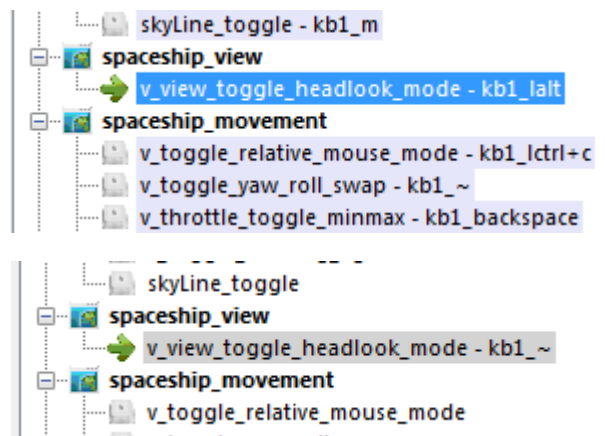
Sometimes your command is not recognized with the first try

Check the Ctrl field each time and if it does not yet capture what you want – try once more. Also releasing all controls currently pressed **together** helps to get successful Ctrl. Entries.

## What about commands you really don't want to be mapped in game ?

Sometimes default commands from CIG annoyingly interfere with your game style

- Load a Profile with defaults and filter if needed to find the problematic action
- If you find that this single kbd leftalt command is disturbing your use of the left alt modifier
- Reload your own map and '**Disable**' that action for the keyboard to ignore it in the game



# Hints ...

V2.29 added

## How to Calibrate a gamepad?

Sometimes the gamepad axes are rather off and will overwrite commands.

E.g. there is always `xi_thumbly` shown and one cannot get any other ctrl. mapped and the readout is high.

| GamePad State |     |      |
|---------------|-----|------|
| DPad:         |     |      |
| TStick Left:  | 192 | 3072 |
| TStick Right: | 0   | 0    |

To calibrate the gamepad press all 4 ABXY buttons together and wait about 2 sec. then the reading should be 0 or close to 0 for all axes (the detection limit is about 500).



| GamePad State |   |    |
|---------------|---|----|
| DPad:         |   |    |
| TStick Left:  | 0 | 52 |
| TStick Right: | 0 | 0  |

## How to find out which controllers (Joysticks) are available in game ?

V2.29 added

- Run the game and then go back to SCJMapper
- Use the 'Dump Log ->' button to read parts of the CIG gamelog.

Dump Log-->

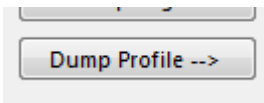
```
-- 06.05.2017 02:42:01 - SC Joystick AC Log Controller Detection --  
  
Log started on 05/06/17 00:13:20  
Running 64 bit version  
Executable: E:\G\StarCitizen\StarCitizen\Public\Bin64\StarCitizen.exe  
ProductVersion: 2.6.7.65236  
Windows 7 64 bit SP 1 (build 6.1.7601)  
32717MB physical memory installed, 24698MB available, 8388607MB virtual memory installed  
Current display mode is 2560x1600x32  
IBM enhanced (101/102-key) keyboard and 16+ button mouse installed  
- Connected joystick0: vJoy Device {BEAD1234-0000-0000-0000-504944564944}  
- Connected joystick1: Saitek X65F Flight Controller {086A06A3-0000-0000-0000-504944564944}  
- Connected joystick2: Saitek Pro Flight X-55 Rhino Stick {22150738-0000-0000-0000-504944564944}  
- Connected xinput0
```

You may see which devices are recognized by the game - joystick0 must be mapped as js1 etc. xinput0 is the gamepad here (this is then xi1)

# Hints ...

## How to get the defaultProfile.xml now that it is no longer a text file?

- Hit 'Dump Profile'



... Gets you the complete used defaultProfile in the right window

The in-game asset is used if **DataXML defaultProfile** is shown

Action Filter:

Profile: DataXML defaultProfile

- Right click in the listing to get a context menu to Copy / Paste or Save As..

```
<profile version="1" optionsversion="2" rebindversion="2" >
  <platforms >
    <PC keyboard="1" mouse="1" xboxpad="1" ps3pad="0" joystick="1" />
    <Xbox keyboard="1" xboxpad="1" ps3pad="0" />
    <PS3 keyboard="1" xboxpad="0" ps3pad="1" />
  </platforms>

  <actiongroup action="v_attack1" >
    <action name="v_attack1_group1" />
    <action name="v_attack1_group2" />
    <action name="v_attack1_group3" />
  </actiongroup>

  <ActivationModes >
    <ActivationMode name="tap" onPress="0" onHold="0" onRelease="1" multiTap="1" multiTapBlock="1" pressTi
    <ActivationMode name="double_tap" onPress="1" onHold="0" onRelease="0" multiTap="2" multiTapBlock="1"
    <ActivationMode name="double_tap_nonblocking" onPress="1" onHold="0" onRelease="0" multiTap="2" multiT
    <ActivationMode name="press" onPress="1" onHold="0" onRelease="0" multiTap="1" multiTapBlock="1" pres
    <ActivationMode name="delayed_press" onPress="1" onHold="0" onRelease="0" multiTap="1" multiTapBlock=:
    <ActivationMode name="hold" onPress="1" onHold="0" onRelease="1" multiTap="1" multiTapBlock="1" retri
    <ActivationMode name="delayed_hold" onPress="1" onHold="0" onRelease="1" multiTap="1" multiTapBlock="1
    <ActivationMode name="smart_toggle" onPress="1" onHold="0" onRelease="1" multiTap="1" multiTapBlock="1
  </ActivationModes>

  <CustomisationUIHeader >
    <keyboard label="@ui_ResetToDefaults" description="@ui_KeyboardDefaultDesc" image="KeyboardDefault" />
    <xboxpad label="@ui_ResetToDefaults" description="@ui_GamepadDefaultDesc" image="GamePadDefault" />
    <joystick label="@ui_ResetToDefaults" description="@ui_JoystickDefaultDesc" image="JoystickDefault" />
  </CustomisationUIHeader>

  <optiontree type="keyboard" name="root" UIShowInvert="-1" UIShowSensitivity="-1" UISensitivityMin="0.01"
  <optiongroup name="master" UILabel="@ui_COMasterSensitivity" UIShowSensitivity="1" UIShowInvert="0" >
    <optiongroup name="inversion" UILabel="@COMasterSensitivityCurvesMouse" UIShowCurve="-1" UIShowSensitiv
    <optiongroup name="inversion" UILabel="@ui_COInversionSettings" UIShowSensitivity="0" UIShowSensitivity=":-
    <optiongroup name="fps" UILabel="@ui_COFPS" UIShowSensitivity="1" UIShowInvert="0" >
      <optiongroup name="fps_view" >
        <optiongroup name="fps_view_pitch" UILabel="@ui_COFPSviewPitch" invert_cvar="c1_invertMouse" U
        <optiongroup name="fps_view_yaw" UILabel="@ui_COFPSviewYaw" UIShowSensitivity="1" UIShowInvert
      </optiongroup>
    </optiongroup>

    <optiongroup name="flight" UILabel="@ui_COflight" UIShowSensitivity="0" UIShowInvert="0" >
      <optiongroup name="flight_move" UILabel="@ui_COflightMove" UIShowSensitivity="1" >
        <optiongroup name="flight_move_pitch" UILabel="@ui_COflightPitch" UIShowSensitivity="1" UIShow
        <optiongroup name="flight_move_yaw" UILabel="@ui_COflightYaw" UIShowSensitivity="1" UIShowInvert
      </optiongroup>

      <optiongroup name="flight_view" UILabel="@ui_COFreeLook" UIShowSensitivity="1" >
```

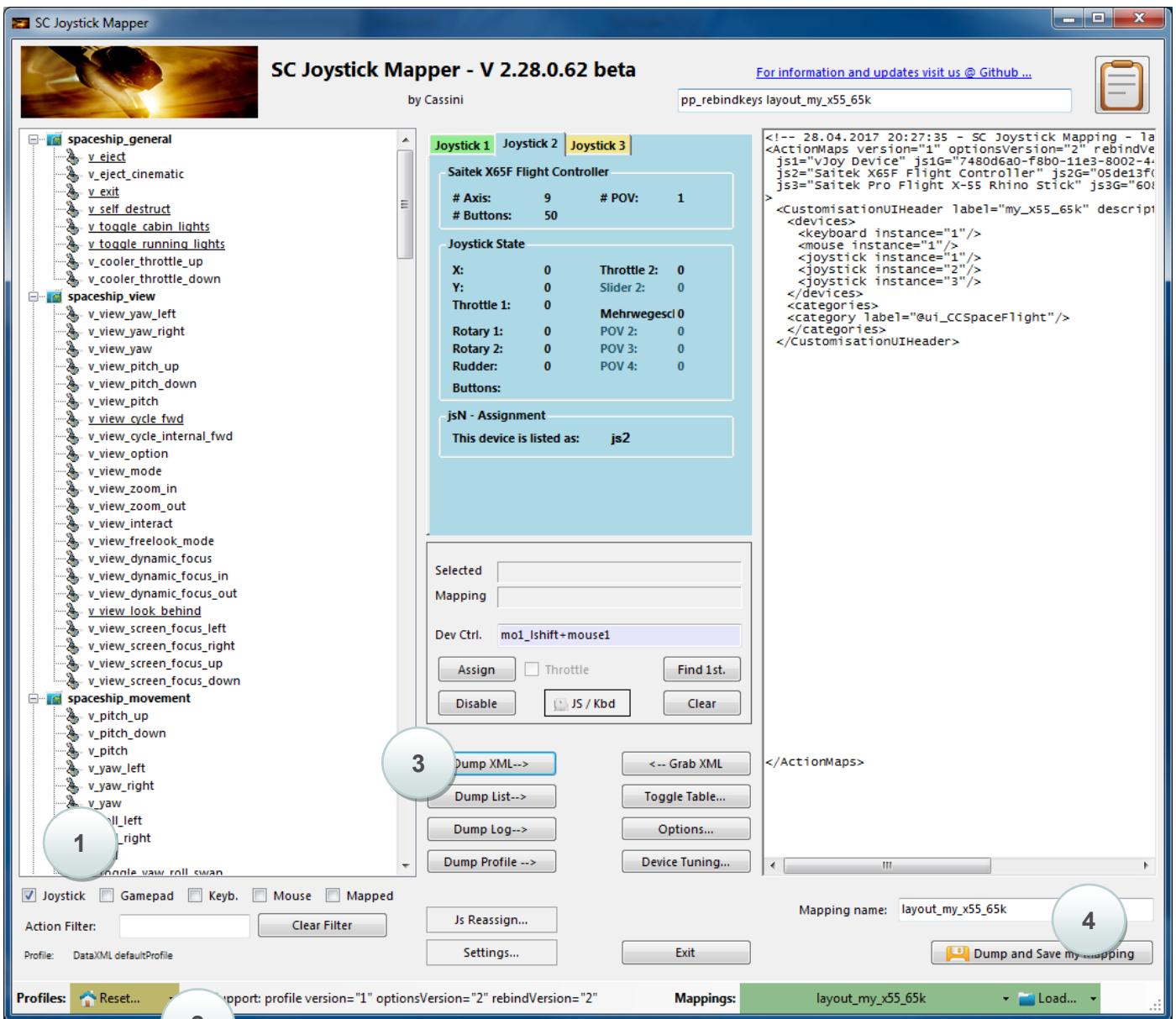
# Hints ...

Intentionally left blank for future hints -  
OR your hint if you send it to me ...

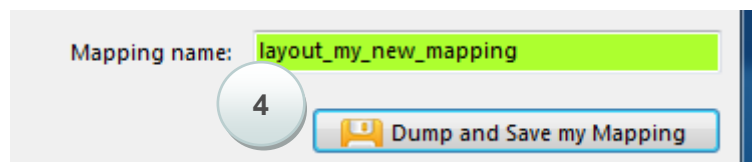
# Hints ...

## How to start with a mapping ?

- 1 Check all device types to be assigned (here only Joystick)
- 2 Use "Reset" – "Reset empty" - should look like below
- 3 "Dump XML ->" – just to see what this looks like – pretty empty...



4 Now it would be a good idea to *Dump and Save* the empty map with a name not yet used



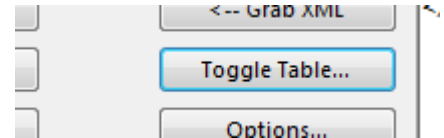
Now you are ready to map ...

# Hints ...

## How to start with a complete disabled map ? 1/2

Start with an empty map as shown in the previous page

Use Toggle Table.. – this is the Fast Disable trick



1 Check e.g. Mouse, Joystick and Gamepad – to edit and disable only those

2 Check “Edit Disable” – we want to edit the Disabled fields

3 Click “Disable all Unmapped”

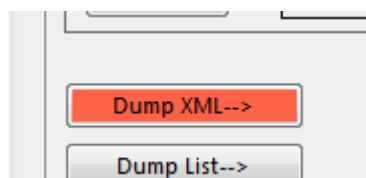
| REF_ActionMap        | ActionName                | Device   | Def_Binding       | Def_Modifier  | AddBind                  | Usr_Binding | Usr_Modifier | Disabled                 |
|----------------------|---------------------------|----------|-------------------|---------------|--------------------------|-------------|--------------|--------------------------|
| 01-spaceship_general | v_eject                   | joystick | js1_rctrl+button6 | double_tap    | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_eject                   | xboxpad  | x11_shoulder+s... | double_tap    | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_exit                    | xboxpad  | x11_y             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_exit                    | joystick | js1_~             | press         | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_self_destruct           | joystick | js1_~             | delayed_press | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_self_destruct           | xboxpad  | x11_shoulder+s... | delayed_press | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_toggle_cabin_lights     | joystick | js1_~             | smart_toggle  | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_toggle_cabin_lights     | xboxpad  | x11_shoulder+d... | smart_toggle  | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_toggle_running_lights   | joystick | js1_~             | smart_toggle  | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_cooler_throttle_up      | joystick | js1_~             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_cooler_throttle_up      | xboxpad  | x11_~             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_cooler_throttle_down    | joystick | js1_~             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 01-spaceship_general | v_cooler_throttle_down    | xboxpad  | x11_~             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_yaw_left           | joystick | js1_hat2_left     | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_yaw_right          | joystick | js1_hat2_right    | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_yaw                | joystick | js1_x             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_yaw                | xboxpad  | x11_thumbrx       | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_yaw_mouse          | mouse    | mo1_maxis_x       | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_pitch_up           | joystick | js1_hat2_down     | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_pitch_down         | joystick | js1_hat2_up       | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_pitch              | joystick | js1_~             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_pitch              | xboxpad  | x11_thumby        | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_pitch_mouse        | mouse    | mo1_maxis_y       | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_cycle_fwd          | joystick | js1_~             | tap           | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_cycle_fwd          | xboxpad  | x11_shoulder+d... | tap           | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |
| 02-spaceship_view    | v_view_cycle_internal_fwd | joystick | js1_~             | Use Profile   | <input type="checkbox"/> |             | Use Profile  | <input type="checkbox"/> |

Now you see all entries of Mouse, Joystick and Gamepad have been disabled

4 “Accept Edits” – the main window of SCJmapper is updated now

5 Close this window

Back in the Main Window – “Dump XML” is now red – Click it to see the XML





# Hints ...

## How to start with a complete disabled map ? 2/2

The screenshot shows the SC Joystick Mapper software interface. The main window displays the configuration for three joysticks. Joystick 1 is identified as 'vJoy Device' and is currently disabled. Joystick 2 is 'Saitek X65F Flight Controller' and Joystick 3 is 'Saitek Pro Flight X-55 Rhino Stick', both of which are assigned to 'js2' and 'js3' respectively. The interface includes a tree view of game actions, a central joystick state display, and a right-hand pane showing the XML mapping code. At the bottom, there are buttons for 'Dump XML', 'Grab XML', 'Toggle Table', 'Options', 'Device Tuning', 'Js Reassign...', 'Settings...', and 'Exit'. The 'Mapping name' is set to 'layout\_my\_new\_mapping'.

Dump and Save to have a baseline.

In case you do have devices not to be used (like in the example my Joystick 1 - vJoy device) you would now first use Js Reassign and map the ones used and n.a. the ones not used.

| jsN - Assignment |                                    |      |
|------------------|------------------------------------|------|
| Joystick 1       | vJoy Device                        | n.a. |
| Joystick 2       | Saitek X65F Flight Controller      | js2  |
| Joystick 3       | Saitek Pro Flight X-55 Rhino Stick | js3  |
| Joystick 4       |                                    |      |

Now you are ready to map and what is not mapped is disabled in the game ...



Brought to you by Cassini 2017  
Data and RSI spacecraft are derived work from the RSI homepage

Changelog:

V2.18 - update Hints - List Commands - add description for + and =, add joystick modifier timeout description, add mouse commands

V2.21 - update Mouse context menu and new screenshots where the version is shown

V2.22 - add Underlined ActivationModes, DumpProfile button and new screenshots where the version is shown

V2.23 - add Actiontree as table description and new screenshots where the version is shown

V2.25 - add CSV list option, add BlendAll to table view

V2.27—add extended Context Menu in Mapping tree (Collapse/Expand), Rename 'Blend' to 'Disable', some editorial changes

V2.28—add "Device & Action Options", changed GUI elements, and Tuning for Strafe and the Hints section with "How to start..."

V2.29—add Gamepad Calibration, changed GUI elements, some more Hints