

Important Keyboard Shortcuts (can be customized in preferences)

	abort (for e.g. editor, pop-ups, dialogs...)
	add
	add barrier state
	add execution state
	add hierarchy state
	add preemptive state
	add data input
	add data output
	add logic outcome
	add scoped variable
<hr/>	
	show aborted and preempted
	show data flows
	show data values
	show logical flows
<hr/>	
	group states in hierarchy
	set state to start state
	add logic flow from closest sibling
	add logic flow to closest sibling
	add logic flow to parent
<hr/>	
	start
	start from selected state
	step
	step mode
	stop
	pause
	run only selected state
	run until selected state
<hr/>	
	close tabs (when clicked on)
	close current tab

GUI Tips / Tricks

Dragging from a dataport into a state creates the dataport with the same data type and name

Data ports can be copied and pasted when the row is selected

Grouping multiple selected states will add all required dataports to hierarchy state

You can make via-points in the connections

To remove via-points again, bring them close to the straight line, this will automatically remove them

Labels and ports can be moved by clicking strg

When rescaling pressing strg scales the whole statemachine nicely

Guidelines / Best Practices

More hierarchy provides more semantic scope and readable local error handling

Keeping rafcon stateless and only orchestrating system capabilities (such as service calls) helps in maintaining observability

Organising states in a „snake“ style helps keeping an overview of the execution- and dataflow

Visual state size is important to keep track of relevance. Either try to be consistent with the size or actively adjust the size.

Using libraries allows to reuse functionality. Renaming libraries directly helps to understand the contextual use of the library.

Dev Tips for speedup

core_config.yaml:	
LOAD_SM_WITH_CHECKS: false	loads statemachines way faster
NO_PROGRAMMATIC_CHANGE_OF_LIBRARIES_STATES_PERFORMED: true	only use this if you are NOT using dynamic state machine generation
gui_config.yaml:	
MAX_VISIBLE_LIBRARY_HIERARCHY: 2	The more hierarchy you display the slower
NO_FULLY_RECURSIVE_LIBRARY_MODEL: true	if set to false models for all states will be loaded

Logging / Execution History

Rafcon logs **inputs** and **outputs** in the **Execution History**. This panel can be opened separately and **inputs** and **outputs** can be investigated by clicking on those with

Some tips for the config.yaml

IN_MEMORY_EXECUTION_HISTORY_ENABLE	if set to true, execution history is saved and can be opened with ratlog
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