

# SCCharts-Editor based on Yakindu

## Project Overview

Project Status:

- CURRENTLY **NOT** UNDER ACTIVE DEVELOPMENT

Responsible:

- [Christian Motika](#)

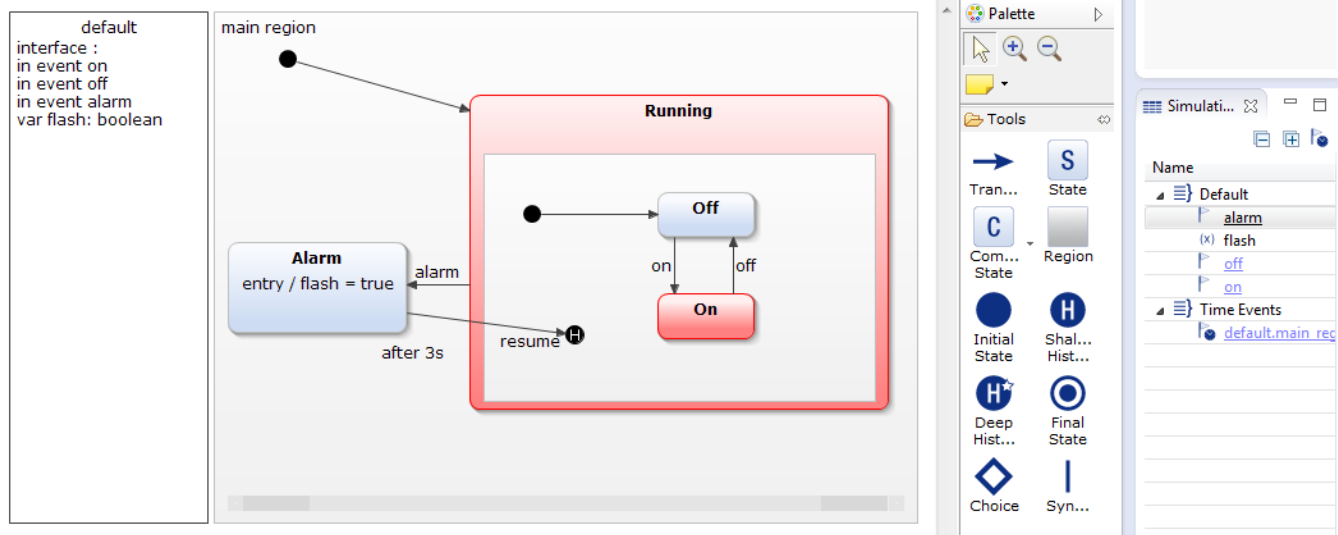
Related Theses:

- Whabi Haribi, *A SyncChart-Editor based on Yakindu*, March 2013 ([pdf](#))

## Yakindu SCT

YAKINDU Statechart Tools (SCT) is an open source tool for the specification and development of reactive, event-based systems using state machines ([Yakindu SCT User Guide](#)).

YAKINDU SCT consists of a graphical tool for editing and provides validation, simulation, and code generators for different target platforms. The tools are provided as Eclipse-plugins and integrate tightly into the IDE ([Yakindu SCT Website](#)).



## Yakindu SCT Editor VS KIELER SyncCharts Editor

- [Comparison of the graphical representation](#)
- [Comparison of the textual description language](#)
- [The KIELER textual SyncCharts](#)
- [Interfaces declarations](#)
- [Transitions priorities](#)

## Yakindu SCT module structure

[See Yakindu Wiki](#)

## Customizing Yakindu SCT Editor to SyncCharts

Two steps are required to adapt the Yakindu SCT Editor to the SyncCharts syntax:

- adapting the graphical representation (sgraph + ui)
- adapting the textual description language (stext)

## The graphical representation

To adapt the graphical representation, several steps are required:

1. adapting the Metamodel for the graphical representation of the state machine models (org.yakindu.sct.model.sgraph)
  - a. [Yakindu SCT Metamodel](#)
  - b. [KIELER SyncCharts Metamodel](#)
2. Figures (org.yakindu.sct.ui.editor.editor.figures)
3. Editparts (org.yakindu.sct.ui.editor.editparts)
4. Property sheets (org.yakindu.sct.ui.editor.property sheets)
5. The palette (org.yakindu.sct.ui.editor/plugin.xml)

### Experimentations

- [How to modify Initial and Final States in Yakindu SCT Editor](#)
- [How to add Transition Types in Yakindu SCT Editor](#)

## The textual description language

Yakindu: The textual [description language](#) is used to declare and describe behaviors in the state machine.

- [Yakindu-SCCharts textual description language](#).

Project progress