SCXML INTERPRETER
A SMACH FRAMEWORK EXTENSION

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SMACH State Machine Framework

Python State Machine Framework with great ROS functionalities.

Pros:

• Easy to create and run state machines
• Stable
• ROS integration (Introspections, Action States, ...)

Cons:

• Difficult to maintain complex state machine (50+ states)
• States Reusability issues
• Non-accessible for non Python-user
SCXML Interpreter Framework

Making SMACH State machine easier to create/manage.
Using SCXML standard to create SMACH State Machine.

GUI assisted creation

SCXML to SMACH auto-mapping
Already used in:

**AIRBUS Autonomous screwdriving**

**ROS-I Pick and place demonstrator**

**Europeran Project:**

ScalABLE4.0
Thank you

**SCXML Interpreter available HERE:**
https://github.com/ScalABLE40/scxml_interpreter

**QT SMACH Viewer (with reworked Introspection):**
https://github.com/ipa-led/qt_smach_viewer