

# SCXML HomePage

The W3C Voice Browser Working Group has published a Working Draft of State Chart XML (SCXML). SCXML provides a generic state-machine based execution environment based on CCXML and Harel State Tables and is a candidate for the control language within multiple markup languages coming out of the W3C. Commons SCXML is a Java implementation of an SCXML engine.

The library provides an SCXML engine capable of executing a state machine defined using a SCXML document, while abstracting out the environment interfaces. For project motivation and overview see the [Commons SCXML Webpage](#).

---

Contents:

- [Wiki Resources](#)
- [Release Plans](#)
- [Tutorials](#)
- [GSoC Proposals](#)
- [Evolution](#)
- [From The Archives](#)
- [External Resources](#)

---

## Wiki Resources

- [../FrequentlyAskedQuestions](#)
- [../BusinessCases](#)

---

## Release Plans

- [../0.5ReleasePlan](#) (DONE - Released on July 28, 2006)

---

## Tutorials

- [../Tutorials/Templating](#) - SCXML allows for defining of a certain FSM externally which can be re-used for convenience. This tutorial briefly covers the use-cases and the implementation of the Templating Pattern.
- [../Tutorials/History](#) - Remembering State Information - This tutorial describes the uses of <history/> element in SCXML. The *history* is used when it is required to remember the state of a complex state. i.e. If it were required to enter a complex state at the same point where we left it, we would use a history element to ensure that the state is preserved when the complex state is exited
- [../Tutorials/Logging](#) - SCXML uses commons-logging, a wrapper that works between others with Log4J ...
- [../Tutorials/ImplicitEvents](#) - Implicit events supported by Commons SCXML (.entry and .exit for states and .change for data)

---

## GSoC Proposals

- [../GSoC2010EclipsePluginProposal](#) - An Eclipse-based Visual State Chart XML editor/debugger that generates SCXML documents

---

## Evolution

This is a section to document the evolution of the Commons SCXML library, most importantly a placeholder to note any API changes and upgrade notes.

- [../Upgrades/ChangesBeforeFirstRC](#) - Document contains notes about changes made before proposing the first release candidate of Commons SCXML.

---

## From The Archives

- [../ProjectProposal](#)

---

## External Resources

- [State Chart XML \(SCXML\): State Machine Notation for Control Abstraction 1.0](#) (W3C Working Draft)