



What's new in Faces 1.2 and JSP 2.1
What's coming in Faces 2.0

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Software Requirements and Process

- Faces 1.2 and JSP 2.1 are:
 - Part of J2EE 5.0
 - Dependant on:
 - JDK 1.4
 - Servlet 2.5
 - Done via transparent development on java.net
 - Faces is licensed with JDL/JRL

New Features: Unified EL

- Motivation
 - # vs. \$
 - Foundation for future work
 - Ultimately in Servlet spec or maybe JDK
 - Bring new features from Faces into JSP
 - Align the webtier technologies
 - Break out the EL into a separate spec document under the JSP 2.1 spec
 - Defined in new package javax.el

History: Faces 1.0 and 1.1 EL

- Anyone need a refresher?
 - Wanted to build on use of EL in JSTL
 - Added support for lvalues and method bindings
 - Pluggable resolution of expressions via PropertyResolver and VariableResolver API
 - Had to introduce new delimiter `#{}` to prevent JSP from evaluating expressions at page execution time.

Changes for Unified EL

- Page Author experience changes
 - Existing apps still run without change via inspection of version level of web.xml and enabling or disabling treatment of `#{}` expressions
 - It's possible to escape `#{}`s so JSP container doesn't touch it.
- Java Developer experience changes
 - ELResolver takes place of VariableResolver and PropertyResolver
 - Legacy PR and VR impls still work

Changes for Unified EL

- Faces Implementor changes
 - Lots of deprecated methods
 - Use new EL APIs
 - Leverage javax.el package
 - Complexity around supporting Legacy custom resolvers

New Faces Features

- Already implemented
 - Nothing revolutionary. Spec bug fixes mainly
 - wrappers for commonly decorated objects
 - "binding" attribute for Converter, Validator, and Listener tags.
 - Using XML Schema instead of DTD
 - "dir" and "lang" attributes for <h:outputText>, <h:outputFormat>, <h:messages>, <h:message>.
 - PhaseListener changes: they must guarantee that if beforePhase() is called, then afterPhase() must also be called, regardless of any thrown exceptions.
 - UIViewRoot phaseEvents
 - "caption" facet for DataTable

New Faces Features

- In Progress
 - Tree pre-creation
 - Content interweaving
 - Associating a label with a component for use in messages
 - State saving with multi-Frame or multi-Window apps.
 - Duplicate button press problem
 - Fully specify client id generation algorithm

New JSP Features

- Completed
 - Changes to support EL Alignment
- In Progress
 - Changes for in progress Faces features
 - Shared Tag Libraries spec
 - Clean up EL ambiguities

Faces 2.0

- Learning what we want to do
 - Pre-AJAX plan of record
 - More components in standard set
 - First class client side validation
 - More complete component meta-data for tools
 - Better support for design time interaction
 - Still has the Request/Response lifecycle as the sole means to handle user interaction

Faces 2.0

- Learning what we want to do
 - Post-AJAX plan of record
 - What I know: Having Request/Response lifecycle as the sole means to handle user interaction
- DOESN'T CUT IT ANYMORE
- Where we are right now: Find the most effective ways to leverage AJAX practices in the Framework to make life easier for the Framework user.

Faces 2.0

- How to leverage AJAX practices to make life easier for the framework user
 - User should never have to write EcmaScript
 - User should have to write less EcmaScript
 - User does not have to write any messy “what browser is this?” EcmaScript.

Faces 2.0

- AJAX challenges for Faces - Lifecycle
 - What to do about the existing request processing lifecycle?
 - Current thinking: should be easy to write an app that has no page refreshes, but the user can use them if they want.

Faces 2.0

- AJAX challenges for Faces – Event Model
 - Faces event model already emulates rich client event model.
 - Is well suited to running in rich client environment.
 - We'll probably end up having some portion of the faces event processing happen in the client.

Faces 2.0 Conclusion



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