Improvements for Eclipse JavaScript Tooling

Eclipse Neon

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<table>
<thead>
<tr>
<th>JavaScript Development Tools (JSDT)</th>
<th>JavaScript</th>
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<tbody>
<tr>
<td>- Abandoned Project for years</td>
<td>- One of the fastest growing and popular language in the industry</td>
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<tr>
<td>- Outdated. Partially support</td>
<td>- EcmaScript 6 (2015), EcmaScript 7 in progress</td>
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<tr>
<td>EcmaScript 3 (1999)</td>
<td>- NodeJS and friends</td>
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<tr>
<td>- Feature set is not always relevant to JS. JSDT was forked from Java Tolling (JDT)</td>
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<td>- Performance issues</td>
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Restarting JavaScript Development Tools Project

Our Principles

- Do basics and do them well
  - Focus on basic functionality first
  - Easy to use
  - Great performance
- Leverage open source innovation happening elsewhere
- Functionality over compatibility (special situation)
  - Break some eggs to make the omelette
Neon Features

- JavaScript Editor with basic functionality supporting EcmaScript 6:
  - Syntax highlighting
  - Syntax validation
  - Basic content assist
- Debugger for NodeJS applications (based on Chrome DevTools)
- NPM, grunt/gulp, bower support
- Better integration point for 3rd party extensions
Architecture

**JSDT 2.0**

- Core
  - Replaceable JS Parser. Currently Esprima + Nashorn (may be changed in the future)
- Debugger
  - Integrated Chrome DevTools
- NPM/Grunt/Gulp/Bower
- 3rd party extensions

**JSDT 1.x**

- Core
  - Its own parser with ES3 level support
  - Memory hungry inference engine is built-in
- Debugging support for Rhino
- Incubation version of Crossfire / Firebug support

* APIs may be changed/deprecated. Workspace compatibility is guaranteed. Some features may be discontinued.
After Neon

- EcmaScript 7 (Make/keep architecture flexible enough to adopt new standards painlessly)
- Debugger for front end/browser JavaScript
- More sophisticated code completion, navigation, validation in JS Editor
- Improve grunt/gulp/npm support
- ...

[Image]
Questions?
Thank you

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