



## PDT 1.0 Release Review

*Aug. 29, 2007*

Vote URL: [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=200578](https://bugs.eclipse.org/bugs/show_bug.cgi?id=200578)

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## *Introduction*

- Major project milestones
  - Proposal – December 2005
  - Creation Review – March 8 2006
  - EclipseCon Presentation – March 2006
  - Eclipse Summit Presentation – November 2006
  - EclipseCon Presentation – March 2007
  - 0.7 M1 First Stable Build – July 2006
  - 0.7 RC1 Build – January 2007
  - 1.0 M1 Build – June 2007
  - 1.0 RC1 – September 2007
- Current project size (10-Aug-2007)
  - ~ 6000 Files
  - ~130000 Lines of Code

## *PDT Statistics*



- **17** Plugins
- **17** Committers (14 from Zend and 3 from IBM)
- **1106** Bugs (910 already closed)
- **Over 2000** newsgroup messages
- More than **40,000** downloads a month

# PDT 1.0 Main Features



## ■ Editor

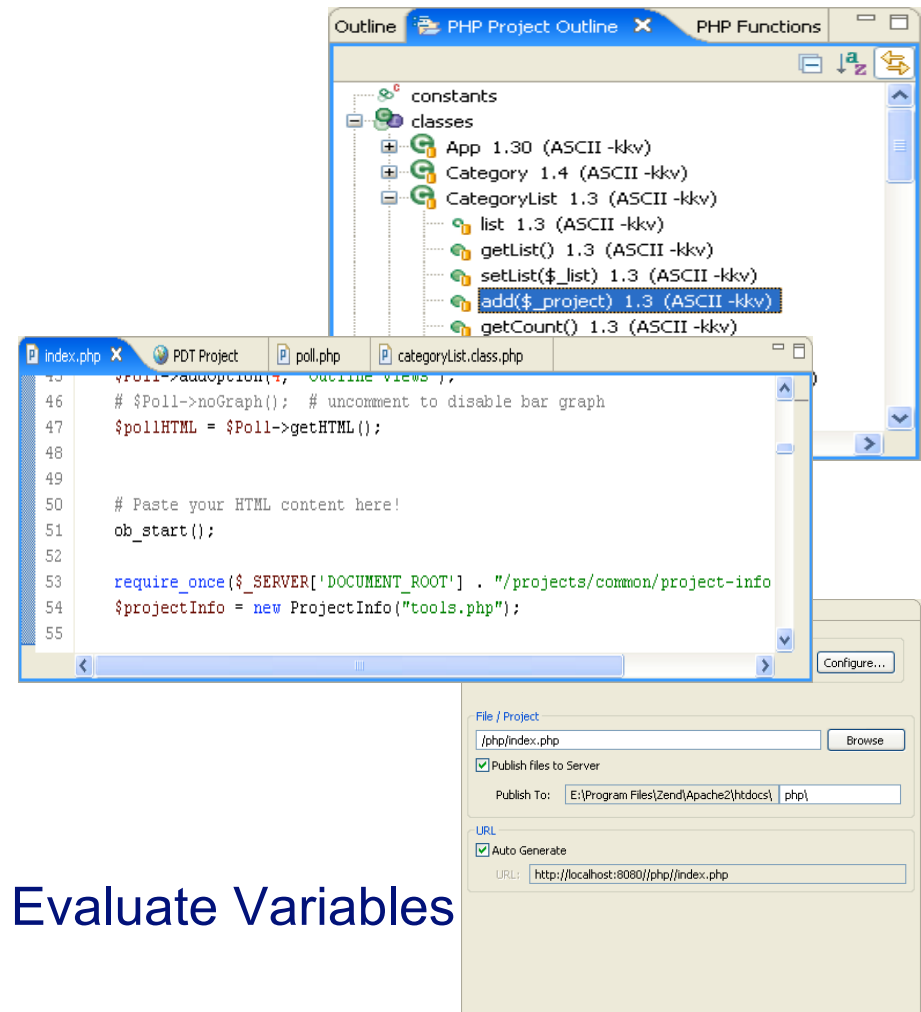
- Syntax Highlighting
- Code Assist
- Code Folding

## ■ Inspection

- File and Project Outline
- PHP Explorer View

## ■ Debug

- PHP script and Web page
- Breakpoints, Stack Trace, Evaluate Variables

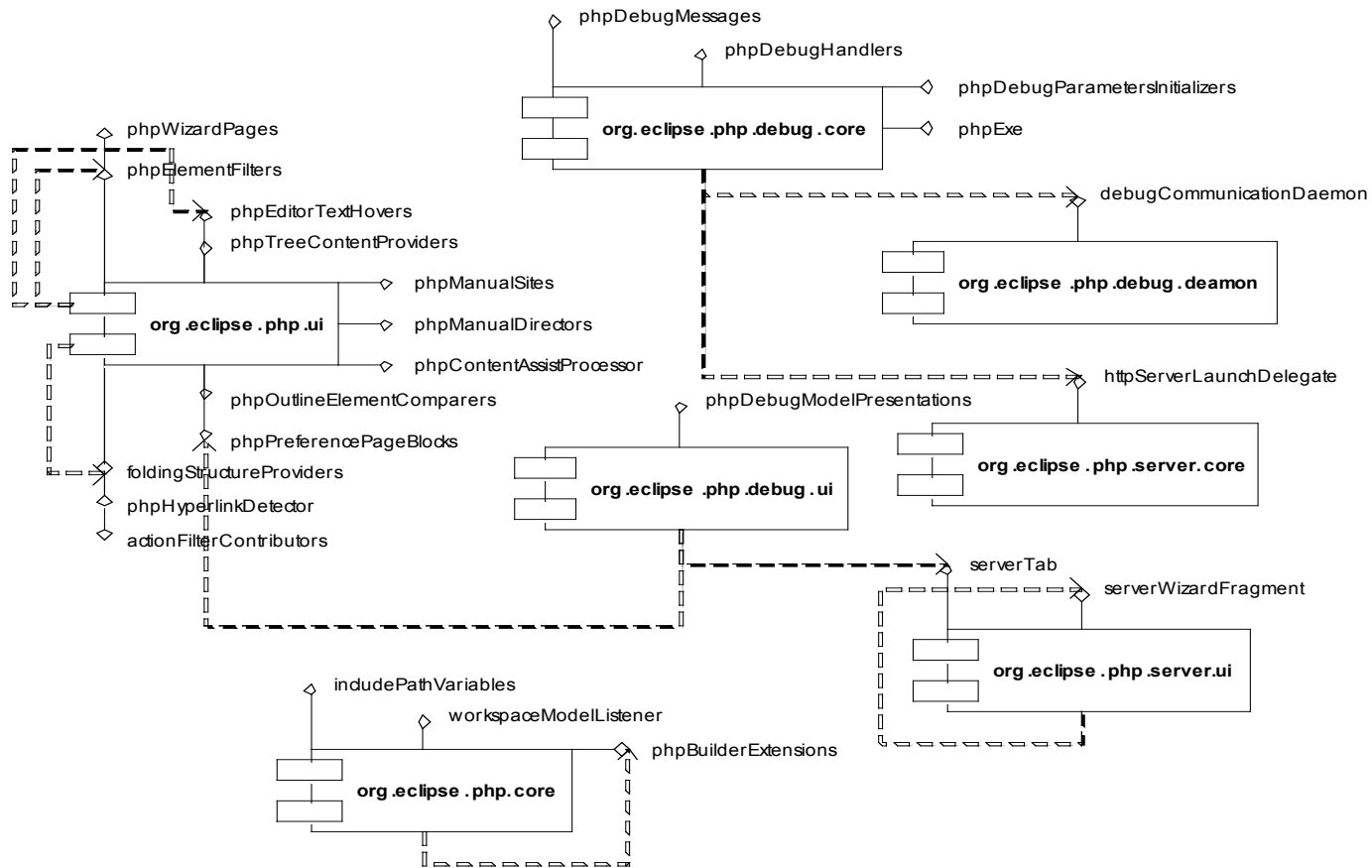




## *Non-code aspects*

- Unit Testing
  - [http://wiki.eclipse.org/index.php/PDT\\_Testing\\_Framework](http://wiki.eclipse.org/index.php/PDT_Testing_Framework)
  - RSS and mail notification every night with results
- Documentation
  - Dedicated technical writer for the project
  - 350 HTML files
- Conferences
  - EclipseCon – March 2006
  - Eclipse Summit – November 2006
  - NYPHP – February 2007
  - EclipseCon – March 2007

# API & Extension Points





## *API & Extension Points (Cont.)*

- API and extension points are available as detailed in the Wiki page and as followed:
- Plug-in org.eclipse.php.core API
  - PHP Builder Extension
  - Include Path Variables
  - Workspace Model Listener
- Plug-in org.eclipse.php.ui API
  - PHP Action Filter Contributor
  - PHP Folding Structure Provider
  - PHP Content Assist Processor
  - PHP Editor Text Hover
  - PHP Element Filter
  - PHP Hyperlink Detector
  - PHP Manual Director
  - PHP Manual URL
  - PHP Outline Element Comparer
  - PHP Preferences Page Block
  - PHP Tree Content Provider
  - PHP Wizard Page

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  - PHP Preferences Page Block
  - PHP Tree Content Provider
  - PHP Wizard Page
- Plug-in org.eclipse.php.server.core API
  - `httpServerLaunchDelegate`





## *API & Extension Points (Cont.)*

- Plug-in org.eclipse.php.core API
  - PHP Builder Extension
  - Include Path Variables
  - Workspace Model Listener
- Plug-in org.eclipse.php.debug.core API
  - PHP Debug Parameters Initializer
  - PHP Debug Handler
  - PHP Debug Message
  - PHP exe
- Plug-in org.eclipse.php.debug.daemon API
  - Debug Communication Daemon
- Plug-in org.eclipse.php.debug.ui API
  - PHP Debug Model Presentation
- Plug-in org.eclipse.php.server.ui API
  - serverTab
  - serverWizardFragment



## *More Architectural Issues*

- PDT based on WTP (Web tools project)
  - XML Editor
  - Structured editor
  - Outline extensibility
- Need more Unit Tests / Automatic Tests
  - UI complex parts
  - Automatic test using gui recorder
- Overlaps with other projects
  - Server definition with different perspective – Java and PHP Servers
- Generic Debug connectivity

# Tools Usability



- PDT project contains all the basic and essential tools for PHP development.
- Tools –
  - PHP Explorer - Project management
    - Include path for projects
    - PHP Inspection of the project files
  - Editor for PHP and HTML development
    - Syntax highlighting
    - Code folding
    - Code assist
  - Debugging
    - PHP Script and Web page debugging
    - Variables
    - Output views
  - Outlines – File, Project and PHP language

## *End of Life Features*



- “...Summarize the features (APIs and any significant user features) from previous releases that are being end-of-life'd in this release. End of life includes both deprecation and actual removal...”
- Not relevant – First release!

# Bugzilla



- Statistics as of 6-Aug-2007

	Critical	Major	Normal	Minor	Enhancement	Total
Open	0	10	28	2	88	<b>128</b>
Resolved	0	3	17	2	10	<b>32</b>
Verified	0	3	13	2	0	<b>17</b>
Closed	56	260	462	74	51	<b>910</b>
<b>Total</b>	<b>56</b>	<b>276</b>	<b>520</b>	<b>80</b>	<b>149</b>	<b>1106</b>

# Standards



- Providing extensibility for most usable UI integration points
- Views, perspectives and actions according to Eclipse standards
- Following Eclipse JDT and WTP standards
- Java object oriented standards
- Design patterns for Java solutions

# UI Usability



- Following Eclipse UI usability guidelines
- Usability changes based on users' feedbacks
- Extending WTP UI usability
- Providing language extensibility options (following Eclipse standards)

# Schedule



- [http://www.eclipse.org/pdt/plans/php\\_plan\\_1\\_0.php](http://www.eclipse.org/pdt/plans/php_plan_1_0.php)
- 0.7 Release was cancelled due to unresolved IP issues
- 1.0M1 – June 11th 2007
- 1.0M2 – August 13<sup>th</sup> 2007
- 1.0RC1 – September 2<sup>nd</sup> 2007
- **1.0 GA – September 18<sup>th</sup> 2007**
- Webinar – October 2007



# Process



- Open, Transparent Planning and Execution:
  - HTML view of change log between builds: Example of M1 - <http://download.eclipse.org/tools/pdt/downloads/drops/S20070611-M1/changelog.html>
  - Discussions over the mailing list and the newsgroup
  - Contribution of source code submitted to Bugzilla and processed to the plugins
  - Cross projects discussions – WTP, ATF, DTP
- Infrastructure: Automated nightly builds, CVS Changelog, Automated RSS processor
- Automated unit-test execution on nightly builds
- Planned and coordinated testing involving the greater community
  - See [http://wiki.eclipse.org/index.php/PDT\\_Testing\\_Framework](http://wiki.eclipse.org/index.php/PDT_Testing_Framework)

# Committers and Contributors



- 17 committers from 2 organizations (Zend, IBM)
- Committers dedicated to development, testing and technical writing
- Contribution using bugzilla
- Mailing list and newsgroup participation (2000 messages)
- Face-to-face meetings held in Tel Aviv, New York and Austin at the beginning of the project
- Forums and blogs –
  - [http://www.marcsaric.de/index.php/Eclipse\\_PHP\\_IDE\\_Review](http://www.marcsaric.de/index.php/Eclipse_PHP_IDE_Review)
  - <http://www.easyeclipse.org/site/distributions/php.html>
  - [http://en.wikipedia.org/wiki/PHP\\_Development\\_Tools](http://en.wikipedia.org/wiki/PHP_Development_Tools)



## *IP Issues*

- **See the IP Log at:** <http://www.eclipse.org/pdt/pdt-log.txt>
- **Committers:**
  - Shachar Ben-Zeev
  - Philip Berkland
  - Brian Burns
  - Roy Ganor
  - Shalom Gibly
  - Gadi Goldberg
  - Robert Goodman
  - Guy Gurfinkel
  - Eden Klein
  - Seva Lapsha
  - Yossi Leon
  - Igor Leznik
  - Yaron Mazor
  - Alon Peled
  - Jackie Sedi
  - Moshe Shukrun
  - Michael Spector



## IP Issues (Cont.)

- See the IP Log at: <http://www.eclipse.org/pdt/pdt-log.txt>
- **Third Party Software:**

*# name including version*

*# IPzilla # of entry providing legal clearance for inclusion*

*# directory location or jar file*

*# license name and version (including any licenses related to embedded third party software)*

*# usage (e.g. modified/unmodified, source, object, derivative work, entire package or which subset)*

- org.ini4j 0.2.6, #1124, org.eclipse.php.internal.core.phpini, Apache 2.0, derivative work
- org.ini4j 0.2.6, #1125, org.eclipse.php.core.src, Apache 2.0, entire package
- javaCUP 0.10j, #1126, org.eclipse.php.core.phpModel.javacup, CUP PARSER GENERATOR 1.0, entire package
- javaCUP 0.10j, #1127, org.eclipse.php.core.phpModel.javacup, CUP PARSER GENERATOR 1.0, derivative work
- javaCUP 0.10j, #1128, org.eclipse.php.core.phpModel.javacup.runtime, CUP PARSER GENERATOR 1.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1130, org.eclipse.php.core.documentModel.parser, GPL 2.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1131, org.eclipse.php.core.phpModel.parser.php4, GPL 2.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1132, org.eclipse.php.core.phpModel.parser.php5, GPL 2.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1133, org.eclipse.php.core.phpModel.parser.phpdoc, GPL 2.0, derivative work



## *Future Goals and Plans*

- Goals
  - Increase the PHP awareness
  - Become the official PHP development tool framework
  - Be involved in additional eclipse project (add committers to WTP on which we rely Influence Eclipse future development)
  - Create a supportive community around PDT
- Plan items are currently in “Proposal” phase
  - See [http://wiki.eclipse.org/index.php/PDT\\_1.5\\_Features\\_Proposal](http://wiki.eclipse.org/index.php/PDT_1.5_Features_Proposal)
- Most likely items right now
  - Improve parsing and PHP model infrastructure
  - More Generic Debug UI
  - Editor Improvements – type hierarchy, method overridden info, find references, call hierarchy
  - Code folding
  - Improved code formatting definitions
  - Syntax highlighting based on AST
  - Code generation - override/implement methods, getter/setter for class fields



Vote for the PDT project in:

[https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=200578](https://bugs.eclipse.org/bugs/show_bug.cgi?id=200578)

