



PDT 1.0 Release Review

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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



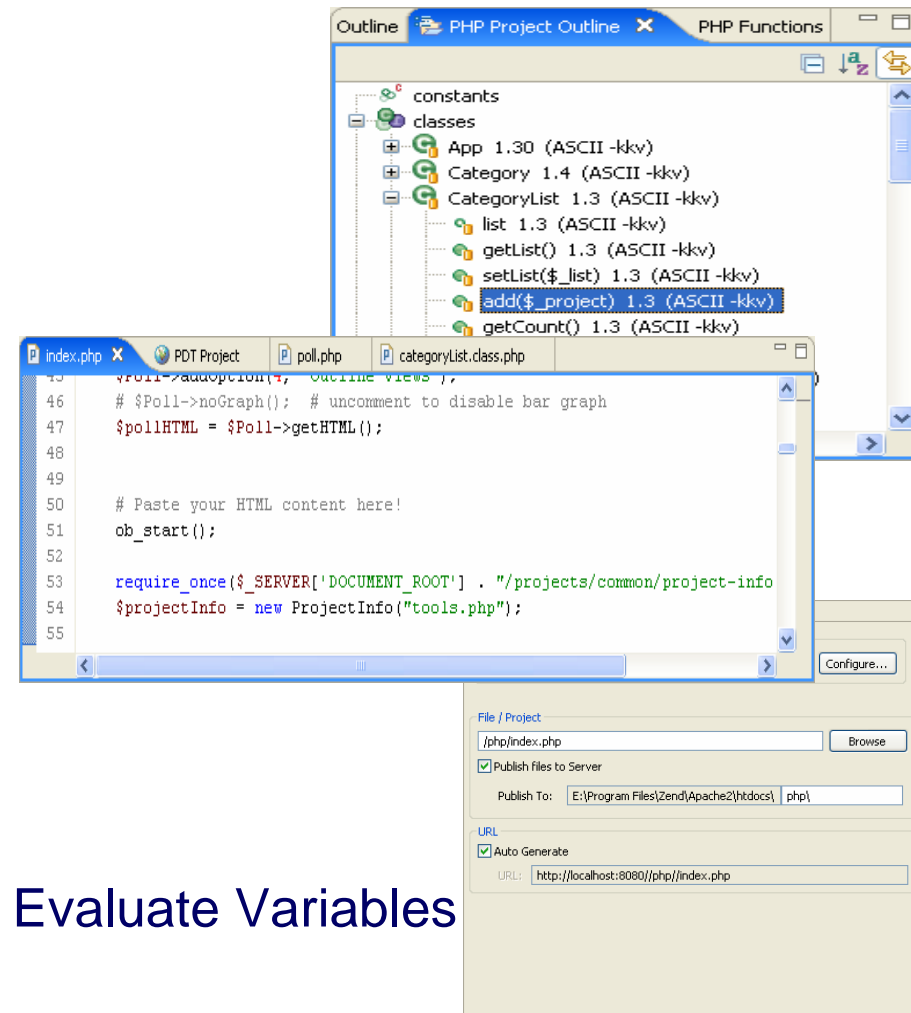
PDT Statistics

- **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



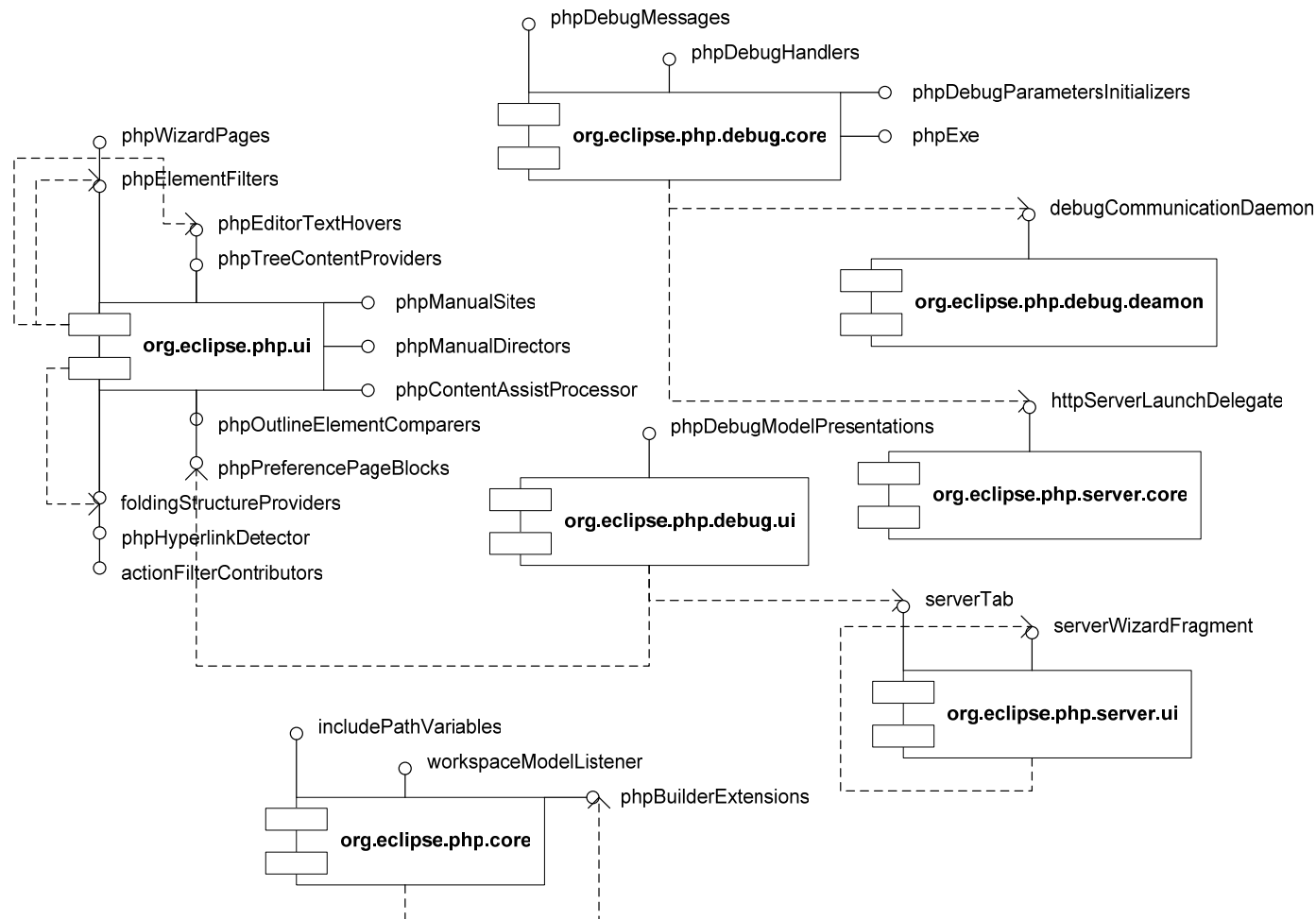


Non-code aspects

- Unit Testing
 - http://wiki.eclipse.org/index.php/PDT_Testing_Framework
 - 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

- API and extension points are available as detailed in the Wiki page and as followed:
- (Cont.)

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



API & Extension Points

- Plug-in org.eclipse.php.core API
- (Cont.)
 - 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	128
Resolved	0	3	17	2	10	32
Verified	0	3	13	2	0	17
Closed	56	260	462	74	51	910
Total	56	276	520	80	149	1106



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
- 0.7 Release was cancelled due to unresolved IP issues
- 1.0M1 – June 11th 2007
- 1.0M2 – August 13th 2007
- 1.0RC1 – September 2nd 2007
- **1.0 GA – September 18th 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



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.easyeclipse.org/site/distributions/php.html>
 - 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



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
- 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

