csl checkstyle

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Overview

Checkstyle is a development tool to help programmers write Java code that adheres to a coding standard. It automates the process of checking Java code to spare humans of this boring (but important) task. This makes it ideal for projects that want to enforce a coding standard.

Checkstyle is highly configurable and can be made to support almost any coding standard. An example configuration files are supplied supporting the Sun Code Conventions, Google Java Style.

A good example of a report that can be produced using Checkstyle and Maven can be seen here.

Important Development Changes

As of September 2013, the Checkstyle project is using GitHub for hosting the following:

- GitHub Source code repository - replacing the Mercurial repository on SourceForge.
- GitHub Issue management - replacing the Bugs/Feature/Patches on SourceForge. All new issues should be raised at GitHub, and pull requests are now the preferred way to submit patches.

SourceForge will still be used for website hosting and binary hosting for downloads.

Releases will happen at the end of each month if functional changes exists in master branch of our repo.

Features

Checkstyle can check many aspects of your source code. It can find class design problems, method desig problems. It also have ability to check code layout and formatting issues.

For a detailed list of available checks please refer to the Checks page.

Download

The latest release of Checkstyle can be downloaded from the SourceForge download page, or Maven central.

If you want to live on the bleeding edge, you can checkout the current development code from GitHub and compile yourself.

Related Tools

Checkstyle is most useful if you integrate it in your build process or your development environment. The distribution includes:

- An Ant task.
- A command line tool.

Additionally plug-ins are written by third-parties. Some of them are still based on the Checkstyle 2.4 release, although there have been many improvements since then. The known plug-ins are:

IDE / Build tool	Main / Initial Author	Available from	Remarks
SCM-Manager		SCM-Manager Plugin Page	
jGRASP	Larry Barowski	jGRASP Home Page	
Sonar	Freddy Mallet (initial author)	Sonar Home Page	Demo site
Eclipse/RAD/RDz	David Schneider	Eclipse-CS Home Page	In 2007 was awarded Best Open Source Eclipse-based Developer tool .
Eclipse/RAD/RDz	Roman Ivanov	Project Page	Extension for Eclipse-CS plugin and also an incubator for Checkstyle checks that are not present in main stream of Checkstyle. See the Wiki and Blog .
Eclipse/RAD/RDz	Marco van Meegen	Checklipse Home Page	
IntelliJ IDEA	Jakub Slawinski	QAPlug	Provides quality assurance features.
IntelliJ IDEA	James Shiell	Checkstyle-idea Project Page	Provides real-time and on-demand scanning.

IntelliJ IDEA	Mark Lussier	JetStyle Project Page	
NetBeans	Petr Hejl	Checkstyle Beans	Problems with source code are displayed as annotations of the source
NetBeans	Paul Goulbourn	nbCheckStyle	
NetBeans		Software Quality Environment (SQE)	
	jCoderZ	fawkeZ	Combines multiple tools (CheckStyle, findbugs, PMD, Cobertura, etc.)
BlueJ	Rick Giles	bluejcheckstyle home page	
tIDE		Built in	
Emacs JDE	Markus Mohnen	Part of the standard JDEE distribution	
jEdit	Todd Papaioannou	JEdit CheckStylePlugin	
Vim editor	Xandy Johnson	Plugin Homepage	Vim file-type plug-in
Maven	Vincent Massol	Checkstyle supported out of the box	example report
QALab	Benoit Xhenseval	QALab Home Page	Supports tracking Checkstyle statistics over time.
JArchitect		JArchitect Home Page	Imports XML result files from CheckStyle.
Jenkins Checkstyle plug-in		Jenkins Checkstyle plug-in Home Page	This plug-in is supported by the Static Analysis Collector plug-in that collects different analysis results and shows the results in aggregated trend graphs.

Bamboo Checkstyle plug-in	Atlassian (formerly by Ross Rowe and Stephan Paulicke)	Bamboo Checkstyle plug-in Atlassian Marketplace page	An add-on that will parse and record CheckStyle reports and report your style violations over time.

If you have written a plugin for other IDEs, please let us know, so we can provide a link here.