

Core

Ctrl+1	Quickfix
Ctrl+3	Open "Quick Access" search
Ctrl+_	Content Assist
Alt+⇧Shift+Z	Surround with (do, for, if, try, ..)
Ctrl+Z	Undo
Ctrl+⇧Shift+Z	Redo

Testing

Alt+⇧Shift+X, T	execute Tests	
Ctrl+R	execute Tests	moreUnit
Ctrl+J	jump to test or implementation	moreUnit

Comment

Ctrl+/	Comment / uncomment line or selection (adds '//')
Ctrl+⇧Shift+7	Add Block Comment around selection (adds '/* ... */')
Ctrl+⇧Shift+ß	Remove Block Comment
Alt+⇧Shift+J	Add Element Comment (adds '/* ... */ JavaDoc')

Text Editing

Ctrl+⇧Shift+Y	lowercase selected text
Ctrl+⇧Shift+X	uppercase selected text
Ctrl+D	Delete line
Ctrl+⇧Shift+Del	Delete until end of line
Ctrl+Del	Delete next element
Ctrl+⌫	Delete previous element
Ctrl+Alt+⇩/⇧	Copy line below/above
Alt+/	Propose word completion - after typing at least one letter. Repeatedly press until reaching correct name
Alt+⇧Shift+A	Column (block) selection, Multiline block editing
⇧Shift+Enter	Adds a blank line below the current line
Ctrl+⇧Shift-+Enter	Adds a blank line above the current line

Generate

Alt+⇧Shift+S, R	Generate Getters and Setters
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Movement

Alt+↑/↓	Move current line or selection up or down
Ctrl+←/→	Jump one word to the left / right
Ctrl+⇧Shift+↑/↓	Jump to previous / next method
Ctrl+L	Jump to Line Number. To hide/show line numbers, press Ctrl+F10 and select 'Show Line Numbers'
Ctrl+Q	Jump to last location edited
Ctrl+.,/	Jump to next / previous warning or error
Ctrl+↑	Scroll up
Ctrl+↓	Scroll down
Ctrl+⇧Shift+P	Go to the matching bracket
Alt+⇧Shift+↑/↓	Select the previous / next syntactical element
Alt+⇧Shift+↑/↓/←/→	Extending / reducing the selection of the previous / next syntactical element

Tip: Use [bookmarks](#). Add them on left margin of the code view (where you set the breakpoints) with "right click → Add bookmark". Add the Bookmarks-View (Window → Show View → Bookmarks).

Selection

Alt+⇧Shift+↑	Expand selection to current element
Alt+⇧Shift+↓	Reduce previously expanded selection by one step

Search / Information

Ctrl+⇧-	Open Type
Shift+T	
Ctrl+⇧-	Open Type In Hierarchy
Shift+H	
Ctrl+⇧-	Open Resource
Shift+R	
Ctrl+O	Show Outline (second press shows the inherited members)



Search / Information (cont)

F2	Open class, method or variable information (tooltip text)
F3	Open Declaration: Jump to Declaration of selected class, method or parameter
F4	Open Type Hierarchy window for selected item
Ctrl+T	Show Quick Type Hierarchy (toggles between supertypes and subtypes when pressed again)
Ctrl+U	Find occurrences of expression in current file
Ctrl+mouse over method	Open Declaration or Implementation
Ctrl+⇧+L	List of shortcuts (depending on the context)
Ctrl+⇧+_	Method cursor is located at the parameter Parameter specification for method reference Hints
Ctrl+⇧+G	Search workspace for references to selected method or variable
Ctrl+G	Search workspace for declarations of to the item under the cursor
Ctrl+F	Quick search
Alt+↵	Show properties (in Package or Project Explorer)

Cleanup

Ctrl+⇧+O	Organize Imports
Ctrl+⇧+F	Format Source
Ctrl+I	Intend selected source
Ctrl+⇧+M	Add Import / also static imports

Refactoring

Alt+⇧+R	Rename Element
Ctrl+2, R	Rename locally (in file), faster than Alt+⇧+R
Alt+⇧+L	Extract to local variable
Alt+⇧+M	Extract to method
Alt+⇧+T	Opens the context-sensitive refactoring menu
Alt+⇧+R	Rename
Alt+⇧+V	Move
Alt+⇧+C	Change Method Signature
Alt+⇧+M	Extract Method
Alt+⇧+L	Extract Local Variable
Alt+⇧+I	Inline

Editor Window

F12	Jump to Editor Window
Ctrl+P-	Next / previous Editor - in the order of their tabs in the editor area
Ctrl+M	Maximize or un-maximize current Editor Window
Ctrl+E	Show list of open Editors. Use arrow keys and enter to switch
Alt+←/→	Backward / Forward editor navigation history
Alt+-	Open Editor Window Option menu
Ctrl+F6	Next Editor - if released it immediately, Eclipse will take you to the last active editor



Editor Window (cont)

Ctrl+⇧Shi-ft+F6	Previous Editor
Ctrl+E	Quick Switch Editor
Alt+F7	Multipage editor - next Page
Alt+⇧Shift+F7	Multipage editor - previous Page
Ctrl+-	Toogle Split Editor old: Ctrl+_ (Horizontal) - since Luna
Ctrl+<	Toogle Split Editor old: Ctrl+{ (Vertical) - since Luna
Ctrl+⇧Shi-ft+"Num Keypad /"	Collapse all code blocks
Ctrl+⇧Shi-ft+"Num Keypad **	Open all code blocks
⇧Shift (and hover over element)	Show source (in tooltip) settings: Window → Preferences → Java → Editor → Hovers

Outline View

Reorder class members with Drag & Drop	Disable "Sort Order" - otherwise not possible Automatic reordering: Select the class, Source → Sort Members
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Package / Project Explorer

Alt+F5	Maven → Update Project...
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Problems View

Configure to view only warnings and errors associated with a particular resource or group of resources	Problems View - Configure Contents e.g. select "on any element in same project" to restrict to current selected project
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Templates (Java → Editor → Templates)

test	Created test method
for	Creates for loop
new	Creates new instance
try	Creates try..catch

Templates (Java → Editor → Templates) (cont)

sysout, syserr, systrace	Creates System.out...
strf	Format string here
if	if null/if not null
for	iterate over map
static_final	static final field
before	junit before method
after	junit after method
beforeclass	junit beforeclass method
afterclass	junit afterclass method
quote	surround selection with quotes here

Tip: It is possible to select text and use completion (Ctrl+_) including typing of template name

Changed Eclipse Keybindings

Windows → Preferences → General → Keys

Required modifications due to the german QWERTZ keyboard layout:

1. Add Block Comment - **new:** Ctrl+⇧Shift+7, **old:** Ctrl+⇧Shift+/\
2. Remove Block Comment - **new:** Ctrl+⇧Shift+ß, **old:** Ctrl+⇧Shift+)
3. Toogle Split Editor (Horizontal) - **new:** Ctrl+⇧Shift+-, **old:** Ctrl+_
4. Toogle Split Editor (Vertical) - **new:** Ctrl+⇧Shift+<, **old:** Ctrl+{

Update 12/2016: had to add ⇧Shift to 3. and 4. because of new Eclipse Neon Zoom functionality with Ctrl+-

Project Specific Configuration

1. Import project **Java formatter configuration**
2. Download **Checkstyle configuration** file from sonar server and reference the config file as a file resource url
3. Download **Findbugs configuration** file from sonar server and add the config file under "include filter files"
4. Download **PMD configuration** file from sonar server and first "clear all" existing rules and then import the config file

Plugins

Testing Support	moreUnit Infitest
Test Coverage	EclEmma
Source Code Analyzer	FindBugs Checkstyle PMD Update-Site Usus

Plugins (cont)

⚡ SonarCube or SonarLint
Ignore certain warnings with //NOSONAR or @SuppressWarnings("squid:S00-112")

Refactoring JDeodorant

Subversion Subclipse

Eclipse

Team

Provider

Plugin

use Subclipse instead of Subversive because it is **much faster**

use JavaHL native/JNI provider

Task based Mylyn

working

Nice: Task-focused Change Sets

Subclipse includes an optional Mylyn connector

JavaDoc JAutoDoc

Maven M2Eclipse (m2e) integration

add needed m2e connectors. follow pom.xml hints/problems. e.g:

m2e project configurators for Eclipse WTP

m2e connector for build-helper-maven-plugin

m2e connector for the Eclipse JDT Compiler

m2e connector for the Maven Dependency Plugin

Groovy-Eclipse m2e integration

Decompiler Eclipse Class Decompiler

XUbuntu specific Configuration Changes

Delete following keybindings in **XFCE Settings** → **Window Manager** → **Keyboard**:

1. Ctrl+Alt+↓/↑
2. Ctrl+F6
3. Alt+F5

If running **IBus-Applet** delete keybinding definition for "Ctrl+Space" (Content Assist) in IBus-Settings

Use **gnome-color-chooser** and change options:

1. **This only works for Eclipse < 4.5, because Eclipse Mars 4.5 and higher uses GTK3 by default (gtkrc-2.0 settings will not be used).** You can force Eclipse 4.5 and higher to use GTK2 with the following export or change GTK3 theme options: export SWT_GTK3=0
2. Tooltip colors (background: yellow, foreground: black)
3. Global colors → Input field selected (foreground: black)

Disable "pink/purple highlights" in Xubuntu 14.10 and higher: disable custom highlight-color in **gtk-theme-config**

Settings

show "." files in package explorer
"Package Explorer → View Menu → Filters → uncheck .**" or "Package Explorer → Customize View... → Filters → uncheck .**"

Package Explorer Option
"Link with editor"

Favorites Imports
Windows → Preferences → Java → Editor → Content Assist → Favorites, New Type... **x1**

Add types for Assertion library **Hamcrest** and/or **AssertJ**, **Mockito** and **JUnit-Assert**



Settings (cont)	
Show line numbers	Window → Preferences → General → Editors → Text Editors → "Show line numbers"
Show print margin	Window → Preferences → General → Editors → Text Editors → "Show print margin"
Paste multiline strings	Window → Preferences → Java → Editor → Typing → "Escape text when pasting into a string literal"
Import code templates collection	x ²
Import code template "surround with quotes"	x ²
MoreUnit Configuration	Test source folder: "src/test/java"
	Test Type: "JUnit4"
	uncheck "Use test-prefix for test-methods"
	Rule for naming test files → Pattern: \${srcFile} (Test IT ITCase)
	if you have legacy tests with Test prefix: Rule for naming test files → Pattern: (Test){srcFile} (Test IT ITCase)

Settings (cont)	
Formatter Options	Window → Preferences → Java → Code Style → Formatter → Off/On Tags for //@formatter:off and //@formatter:on
	Check the Never join lines preference accessible on the Line Wrapping and the Comments tabs of the Java Formatter preference page
Improve Performance	Window → Preferences → Validation, Disable All
	Add -Xverify:none to eclipse.ini tell the VM not to validate all the .class files it is loading
	Window → Preferences → General → Startup and Shutdown remove plugins not needed
	increase -Xms and -Xmx heap memory options (start and max) in eclipse.ini e.g. -Xms512m -Xmx2048m
	increase -XX:MaxPermSize option (if java < 1.8) e.g. -XX:MaxPermSize=512m
Enable informative Eclipse Compiler Warnings	Window → Preferences → Java → Compiler → Errors/Warnings set to Warning and keep sub checkboxes checked (if any)
	<i>Potential Programming problems</i> Potential resource leak
	<i>Unnecessary code</i> Value of parameter is not used



Settings (cont)	
	Unused type parameter
	Unnecessary declaration of thrown exception
	Unnecessary 'else' statement
	Unnecessary cast of 'instanceof' operation
<i>Generic types</i>	Redundant type arguments (1.7 and higher)
<i>Annotations</i>	Unhandled token in '@SuppressWarnings' set to "Ignore"
<i>Null analysis</i>	Redundant null check
Indent using spaces	Window → Preferences → XML Files → Editor Select "Indent using spaces" and set "Indentation Size: 4"
	Window → Preferences → General → Editors → Text Editors Set "Displayed tab width: 4" and select "Insert spaces for tabs"
Save Actions	Window → Preferences → Java → Editor → Save Actions
	check "Perform the selected actions on save"
	check "Format source code", "Format all lines"
	check "Organize imports"
	check "Additional actions" and add the following:

Settings (cont)	
Code Style	<ul style="list-style-type: none"> "Use blocks in if/while/for/do statements" Use lambda where possible if you use Java >= 8
Add final modifier to private fields*	<ul style="list-style-type: none"> Add final modifier to private fields Add final modifier to local parameter Add final modifier to local variables
Unused Code	<ul style="list-style-type: none"> Remove unused imports Add missing '@Override' annotations Add missing '@Override' annotations to implementations of interface methods Add missing '@Deprecated' annotations Remove unnecessary casts Remove unnecessary '\$NON-NLS\$' tags
Limit maximum number of open editors	Window → Preferences → General → Editors
	check "Close editors automatically"
	choose value (e.g. 20) for "Number of opened editors before closing"



Settings (cont)

JDT Core/Null Analysis to avoid NPEs
 Window → Preferences → Java → Compiler → Errors/Warnings, Section *Null analysis*
 if you use Java < 8 (cannot use *Optional*) and cannot use *Guava Optional* e.g. for legacy projects

check "Enable annotation-based null analysis"
 you can use the *Eclipse annotations*, the *JSR-305 annotations (old)*, custom ones or the *JSR-308 annotations from Checker Framework*

Maven
 Window → Preferences → Maven → User Interface

check "Open XML page in the POM editor by default"
Reason: show pom.xml source code is faster than loading the "Overview" tab all the time

JUnit
 Window → Preferences → Java → JUnit enable "Add 'ea' to VM arguments when creating new JUnit launch configuration"
 enable JVM *assertions* by default

Show heap memory status
 Window → Preferences → General
 enable "Show heap status"

Enable "-Quick Diff"
 Window → Preferences → General → Editors → Text Editors → Quick Diff
 enable checkboxes and select correct reference source option

x¹: TDD-Style mockito: org.mockito.Mockito, BDD-Style mockito: org.mockito.BDDMockito, org.junit.Assert, org.hamcrest.Matchers, org.assertj.core.api.Assertions
x²: Java → Editor → Templates

General

Refresh all Projects (with some closed in between)
 In **Package Explorer** Ctrl+A, F5

Use Working Sets for better performance
 Package Explorer → open the drop-down menu → Select Working Set

If Ctrl+⇧Shift+R and Ctrl+⇧Shift+T does not reflect active Working Set check the small arrow on the top right of the dialogue to select Working Set

Troubleshooting Projects

Maven dependency issues
try without eclipse project resolution

clean projects

Error message The archive: <pa th_ to_ jar _ does not exist.

Troubleshooting Projects (cont)

you can use this command to search for the projects referencing old jar: `find -name ' .classpath' -exec grep -Hin 'example-1.2.3.jar' {} \;`

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