

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

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+⇧Shift-T	Open Type
Ctrl+⇧Shift-H	Open Type In Hierarchy
Ctrl+⇧Shift-R	Open Resource
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-gDn/PgUp	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



Editor Window (cont)

Ctrl+F6	Next Editor - if released it immediately, Eclipse will take you to the last active editor
Ctrl+⇧Shift+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+⇧Shift+ft+Num Keypad /"	Collapse all code blocks
Ctrl+⇧Shift+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
sysout, syserr, systtrace	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



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Plugins		
Testing Support	moreUnit	
	Infinittest	
Test Coverage	EclEmma	
Source Code Analyzer	FindBugs	
	Checkstyle	
	PMD	Update-Site
	Usus	
	⚡ SonarCube or SonarLint	Ignore certain warnings with //NOSONAR or @SuppressWarnings("squid:S00-112")
Refactoring	JDeodorant	
Subversion Eclipse Team Provider Plugin	Subclipse	
	use Subclipse instead of Subversive because it is much faster	
	use JavaHL native/JNI provider	
Task based working	Mylyn	
	Nice: Task-focused Change Sets	
	Subclipse includes an optional Mylyn connector	
JavaDoc	JAutoDoc	
Maven integration	M2Eclipse (m2e)	
	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

Plugins (cont)	
	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"	Link file to package explorer

Settings (cont)

Favorites Imports	Windows → Preferences → Java → Editor → Content Assist → Favorites, New Type...	x ¹
	Add types for Assertion library Hamcrest and/or AssertJ, Mockito and JUnit-Assert	
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"	
	unchecked "Use test-prefix for test-methods"	
	Rule for naming test files → Pattern: \${srcFile} (Test IT ITCase)	

Settings (cont)

	if you have legacy tests with Test prefix: Rule for naming test files → Pattern: (Test){srcFile}(Test IT IT-Case)	
Formatter Options	Window → Preferences → Java → Code Style → Formatter → Off/On Tags for	here
	//@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	here
Improve Performance	Window → Preferences → Validation, Disable All	
	Add -Xverify:none to eclipse.ini	tell the VM not to validated 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



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Settings (cont)

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
		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"

Settings (cont)

	check "Format source code", "Format all lines"
	check "Organize imports"
	check "Additional actions" and add the following:
Code Style	"Use blocks in if/while/for/do statements" - Use lambda where possible if you use Java >= 8
Add final modifier to private fields*	- Add final modifier to private fields - Add final modifier to local parameter - Add final modifier to local variables
Unused Code	- 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

Settings (cont)

Limit maximum number of open editors

check "Close editors automatically"

choose value (e.g. 20) for "Number of opened editors before closing"

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"

Settings (cont)

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

[Project] → Properties → Maven

unchecked "Resolve dependencies from Workspace projects" to check with jars from local ~/.m2 repository instead of eclipse projects within workspace/workingset

clean projects

don't mix usage of maven CLI and m2e eclipse plugin

if mixed - make a mvn eclipse e:clean (CLI) and import again in eclipse

Troubleshooting Projects (cont)

Error message The archive: <pa th_ to_ jar _fi le> which is referenced by the classpath, find project with .classp
does not exist.

make a mvn eclips e:c

you can use this command

.clas spath' -exec



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