

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

Testing		
Alt+ î 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+ û Shift+7	Add Block Comment around selection (adds '/ */')
Ctrl+ û Shift+ß	Remove Block Comment
Alt+ î Shift+J	Add Element Comment (adds '/** */' JavaDoc)

Text Editing	
Ctrl+ û Shift+Y	lowercase selected text
Ctrl+ û Shift+X	uppercase selected text
Ctrl+D	Delete line
Ctrl+ û 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+ î Shift+A	Column (block) selection, Multiline block editing
î Shift+Enter	Adds a blank line below the current line
Ctrl+ î Shift+Ent er	Adds a blank line above the current line

Generate		
Alt+ û Shift+S, R	Generate Getters and Setters	
Movement		
Alt+↑/↓	Move current line or selection up or down	
$Ctrl+\leftarrow/\rightarrow$	Jump one word to the left / right	
Ctrl+ û 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+ î Shift+P	Go to the matching bracket	
Alt+ î Shift+↑/↓	Select the previous / next syntactical element	
Alt+ $\hat{1}$ Shift+ $\uparrow/\downarrow/\leftarrow/\rightarrow$	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		

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

 $Bookmarks\text{-}View \ (Window \rightarrow Show \ View \rightarrow Bookmarks).$

Search / Information		
Ctrl+ î Shift+ T	Open Type	
Ctrl+ î Shift+ H	Open Type In Hierarchy	
Ctrl+ î Shift+ R	Open Resource	
Ctrl+O	Show Outline (second press shows the inherited members)	



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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+ î Shift+L	List of shortcuts (depending on the context)	
Ctrl+ û Shift+⊔	Method cursor is located at the parameter Parameter specification for method reference Hints	
Ctrl+ î Shift+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+ û Shift+O	Organize Imports	
Ctrl+ î Shift+F	Format Source	
Ctrl+I	Intend selected source	
Ctrl+ û Shift+M	Add Import / also static imports	
Refactoring		
Alt+ î Shift+R	Rename Element	
Ctrl±2 B	Rename locally (in file) faster than Alt+ ↑ Shift+B	

Refactoring	
Alt+ û Shift+R	Rename Element
Ctrl+2, R	Rename locally (in file), faster than Alt+ $\hat{\mathbb{1}}$ Shift+R
Alt+ û Shift+L	Extract to local variable
Alt+ û Shift+M	Extract to method
Alt+ û Shift+T	Opens the context-sensitive refactoring menu
Alt+ î Shift+R	Rename
Alt+ û Shift+V	Move
Alt+ û Shift+C	Change Method Signature
Alt+ û Shift+M	Extract Method
Alt+ û Shift+L	Extract Local Variable
Alt+ î Shift+I	Inline

Editor Window		
F12	Jump to Editor Window	
Ctrl+PgDn/ 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	
$Alt+\leftarrow/\rightarrow$	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	



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Eclipse Cheat Sheet

by Oliver Paulus (oli.p) via cheatography.com/19982/cs/2862/

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

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

Package / Project Explorer

Alt+F5 Maven → Update Project...

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

Templates (Java → Editor → Templates)

test	Created test method
for	Creates for loop
new	Creates new instance
try	Creates trycatch

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+ _u) 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+ 1 Shift+7, old: Ctrl+ 1 Shift+/
- 2. Remove Block Comment new: Ctrl+ î Shift+ß, old: Ctrl+ î Shift+\
- 3. Toogle Split Editor (Horizontal) new: Ctrl+ 1 Shift+-, old: Ctrl+_
- 4. Toogle Split Editor (Vertical) **new:** Ctrl+ î 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	
	Infinitest	
Test Coverage EclEmma		
Source Code Analyzer FindBugs		
	Checkstyle	
	PMD Update-Site	
	Usus	



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Plugins (cont)		
	♣ SonarCube or SonarLint	Ignore certain warnings with //NOSONAR or @SuppressWarnings("squid:S0 0112")
Refactoring	JDeodorant	
Subversion Eclipse Team Provider Plugin	Subclipse	
	use Subclipse instead of faster	Subversive because it is much
	use JavaHL native/JNI pr	ovider
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
		m2e connector for the Maven Dependency Plugin
		Groovy-Eclipse m2e integration
Decompiler	Eclipse Class Decompiler	r

XUbuntu specific Configuration Changes

Delete following keybindings in XFCE Settings \rightarrow Window Manager \rightarrow 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 GTK2with the following export or change GTK3 theme options: export SWT_GTK3=0

- 2. Tooltip colors (background: yellow, foreground: black)
- 3. Global colors \rightarrow Input field selected (foreground: black)

Disable "pink/purple highlights" in Xubuntu 14.10 and higher: disable custom hightlight-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	
Favorites Imports	Windows \rightarrow Preferences \rightarrow Java \rightarrow Editor \rightarrow Content Assist \rightarrow Favorites, New Type	X ¹
	Add types for Assertion libraryHamcrest and/or AssertJ, Mockito and JUnit-Assert	



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Settings (cont)	
Show line numbers	Window \rightarrow Preferences \rightarrow General \rightarrow Editors \rightarrow Text Editors \rightarrow "Show line numbers"
Show print margin	$\label{eq:window} \begin{tabular}{ll} Window \to Preferences \to General \to Editors \to \\ Text Editors \to "Show print margin" \\ \end{tabular}$
Paste multiline strings	Window \rightarrow Preferences \rightarrow Java \rightarrow Editor \rightarrow Typing \rightarrow "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 \rightarrow Pattern: (Test)\${srcFile} (Test IT ITCase)

Settings (co	ont)	
Formatter Options	Window → Preferences → Java → Code Style → Formatter → Off/On Tags for //@formatter:off and //@formatter:on	here
	Check the Never join lines preference accessible on the Line Wrapping and the Comments tabs of the Java Formatter preference page	here
Improve Performanc e	Window → Preferences → Valida	tion, Disable All
	Add -Xverify:none to eclipse.ini	tell the VM not to validated all the .class files it is loading
	$\begin{array}{l} \text{Window} \rightarrow \text{Preferences} \\ \rightarrow \text{General} \rightarrow \text{Startup and} \\ \text{Shutdown} \end{array}$	remove plugins not needed
	increase -Xms and -Xmx heap memory options (start and max) in eclipse.ini	e.gXms512m - 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)
	Potential Programming problems	Potential resource leak
	Unnecessary code	Value of parameter is not used



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Settings	(cont)	
		Unused type parameter
		Unnecessary declaration of thrown exception
		Unnecessary 'else' statement
		Unnecessary cast of 'instanceof' operation
	Generic types	Redundant type arguments (1.7 and higher)
	Annotations	Unhandled token in '@SuppressWarnings' set to "Ignore"
	Null analysis	Redundant null check
Indent using spaces	$\label{eq:window} \begin{tabular}{ll} Window \to Preferences \to \\ XML \ Files \to E ditor \end{tabular}$	Select "Indent using spaces" and set "Indentation Size: 4"
	$\label{eq:window} \begin{array}{l} \text{Window} \rightarrow \text{Preferences} \rightarrow \\ \text{General} \rightarrow \text{Editors} \rightarrow \text{Text} \\ \text{Editors} \end{array}$	Set "Displayed tab width: 4" and select "Insert spaces for tabs"
Save Actions	Window → Preferences →Jav	$a \rightarrow Editor \rightarrow Save Actions$
	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	• "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 cas	ts
	Remove unnecessary '\$N	ON-NLS\$' tags
Limit maximum number of open editors	$Window \to Preferences \to General \to Editors$	
	check "Close editors autom	atically"
	choose value (e.g. 20) for "editors before closing"	Number of opened



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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 \rightarrow Preferences \rightarrow N	laven → 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 \rightarrow Preferences \rightarrow General	enable "Show heap status"
Enable "Quick Diff"	$\begin{tabular}{ll} Window \rightarrow Preferences \rightarrow \\ General \rightarrow Editors \rightarrow Text \\ Editors \rightarrow Quick Diff \\ \end{tabular}$	enable checkboxes and select correct reference source option
x^1 : TDD-Style mockito: org.mockito.Mockito, BDD-Style mockito: org.mockito.BDDMockito, org.junit.Assert, org.hamcrest.Matchers, org.assertj.core.api.Assertions x^2 : Java \rightarrow Editor \rightarrow 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 Select Working Set	e drop-down menu →
	If Ctrl+ î Shift+R and Ctrl+ î S active Working Set check the right of the dialogue to select	small arrow on the top

Troubleshooting Projects		
Maven dependency issues	try without eclipse project resolution	[Project] → Properties → Maven
		uncheck "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 amvn eclipse:clean (CLI) and import again in eclipse
	Error message The archive: <path_to_jar_file> which is referenced by the classpath, does not exist.</path_to_jar_file>	find project with .classpath file where old/wrong jar is referenced
		make a mvn eclipse:clean (CLI) and import again in eclipse

C

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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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