ECLIPSE CHEAT SHEET

This cheat sheet is aimed at people with some experience in eclipse but who may not be aware of many of its features.

SHORTCUTS

These are some of the most useful shortcuts in eclipse. You can find others listed beside their function in eclipse's menus.

Menu	Key Combination	Use
Source	Ctrl+Space	Auto-complete / Content Assist
	Ctrl+1	Quick Fix (on current selection)
	Ctrl+D	Delete Current Line
	Ctrl+Alt+Up	Copy Lines Up
	Alt+Up	Move Lines Up
	Alt+Shift+Z	Surround (current selection) With
	Ctrl+I	Fix Indentation (on selection)
	Ctrl+Shift+F	Fix Formatting (on selection)
	Ctrl+/	Toggle Comments (on selection)
Refactor	Alt+Shift+M	Extract Method
	Alt+Shift+R	Rename
Search	Ctrl+Shift+G	Find All References (of selection)
	Ctrl+H	Advanced Search
Run	Alt+Shift+X, J	Run Current Class
	Alt+Shift+X, D	Debug Current Class

AUTO-COMPLETE

These are some of the most useful options given to you after using the Ctrl+Space auto-complete shortcut.

Text Written So Far	What the Auto-Complete Function Does
<pre><start method="" name="" of="" variable=""></start></pre>	<end method="" name="" of="" variable=""></end>
main	Creates a new main method
public / private	Creates a new public/private method
randomstring	Creates a new void method named randomstring
sysout	Creates a new System.out.println();
syserr	Creates a new System.err.println();
for	Creates a new for loop
foreach	Creates a new iterator loop
while	Creates a new while loop
try	Creates a new try-catch block

You can also create your own auto-complete statements. Go to Window->Preferences, then on the left pane go to

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Java->Editor->Templates
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For example the following template creates a println outputting the contents of a specific variable:

NAME: debug

PATTERN: System.err.println("\${word_selection}: " + \${word_selection}); \${cursor}

 $This \ can \ be \ used \ now \ in \ eclipse \ by \ selecting \ a \ variable \ and \ pressing \ \texttt{Ctrl+Space}, \ then \ typing \ \texttt{`debug'} \ and \ pressing \ enter.$

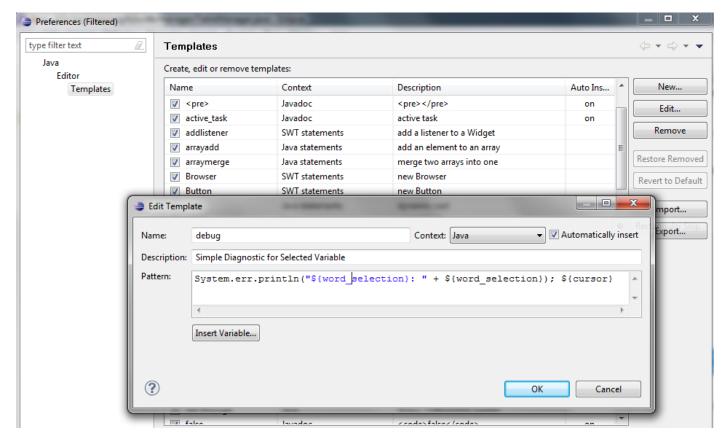


Figure 1: Creating a new auto-complete template

VIEWS IN ECLIPSE

Eclipse displays various views on the left and bottom of the screen that you may find useful. You can add new views if they are not already displayed by going to Window->Show View, or by clicking on the following icon at the bottom left of your workspace:

TASK MANAGEMENT

The task pane (pictured below) is a useful way of keeping track of incomplete sections of code, or places where code needs tidied up.

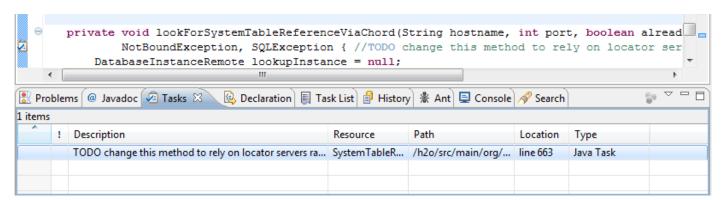


Figure 2: Tasks Pane

Comments will automatically be shown in the task pane if you start a comment with either XXX or TODO.

You can also create your own custom markers by clicking on the down arrow in the top right of the task pane and opening *Configure Contents*. Duplicate the TODO task you can then use your own custom tag by changing the description section.

PROBLEMS

The problems tab displays compiler warnings and errors.

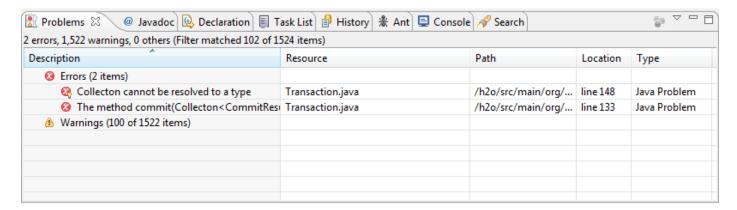


Figure 3: Problems Pane

You can filter the contents of this tab so that it only displays local problems by clicking on the down arrow (in the top right) and opening *Configure Contents*. Here you can change the scope of the problems shown for various types of errors and warnings.

PACKAGE EXPLORER VIEW

The package explorer displays projects in your workspace, with java files organized by package structure. You can choose to view packages flat or in a hierarchy.

To link the currently open java file with the contents of the package explorer select the 'link with editor' option.

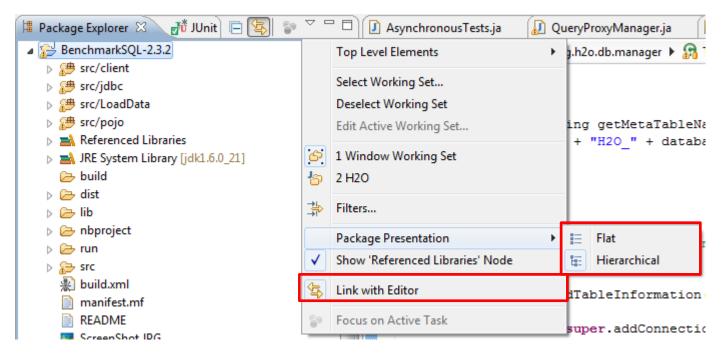


Figure 4: Package Explorer Pane

You can also filter the projects and classes that are shown in the package explorer to allow you to focus on only relevant classes. To do this click on the down arrow at the top of the package explorer and click on SELECT WORKING SET (shown above in Figure 4). You can then create new working sets that filter on various conditions. For example, you can filter certain projects or show on classes with specific debugging breakpoints. The menu with these options is illustrated below in Figure 5.

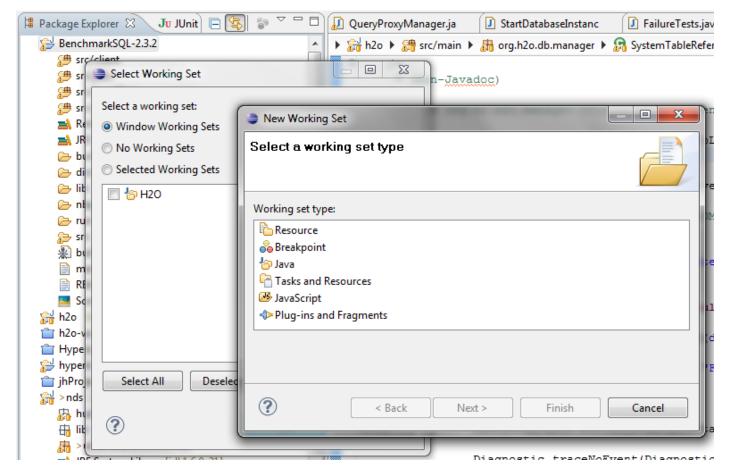


Figure 5: Working Sets

BREADCRUMBS

To enable the breadcrumb feature in eclipse, click on the icon at the top of the workspace.

Breadcrumbs can be a quicker way of navigating between methods, classes, or packages in eclipse (as shown below).

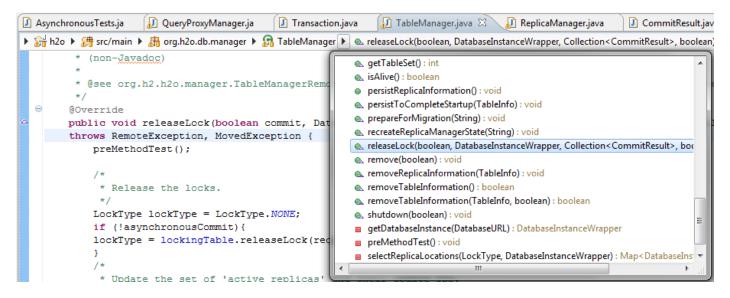


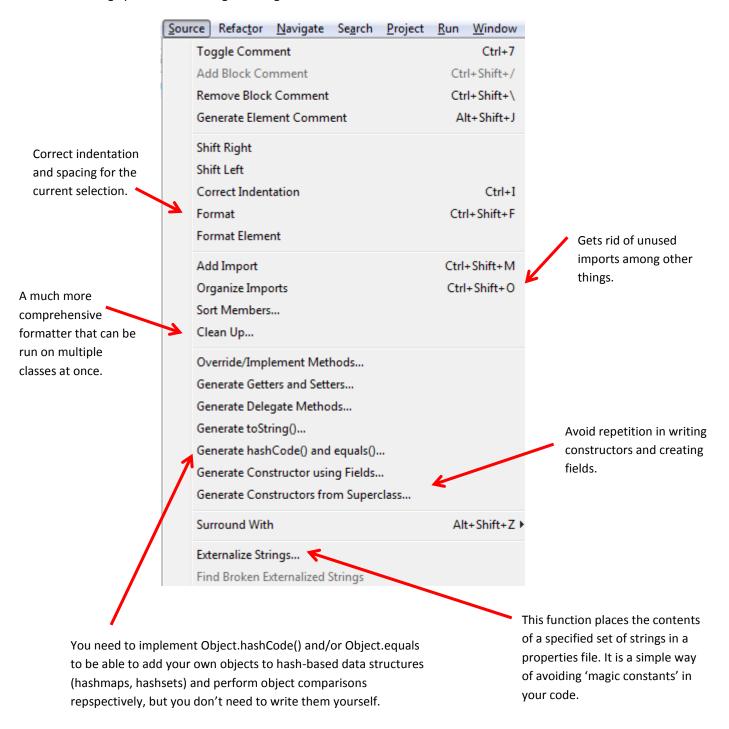
Figure 6: Breadcrumbs

MENU OPTIONS

The next couple of pages summarise some of the most useful menu options that eclipse provides.

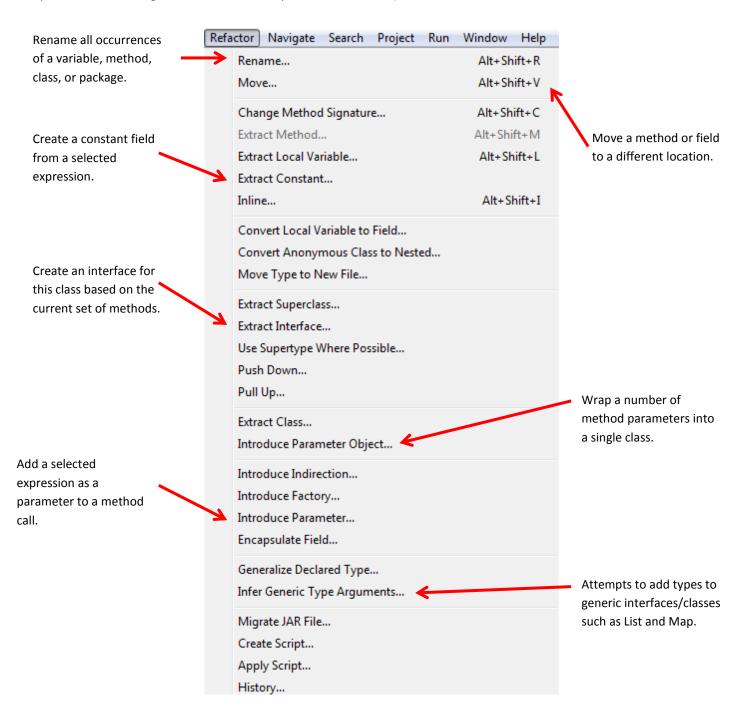
THE SOURCE MENU

Used for cleaning up source files and generating code.



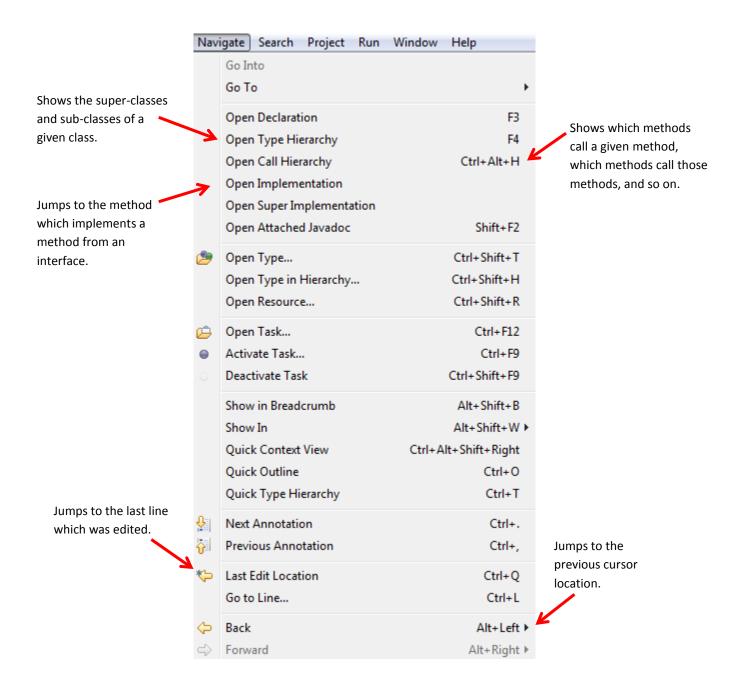
THE REFACTOR MENU

Used for making changes to code without breaking the program (changes are reflected everywhere so, for example, renaming a public field will change the field's name everywhere it is accessed).



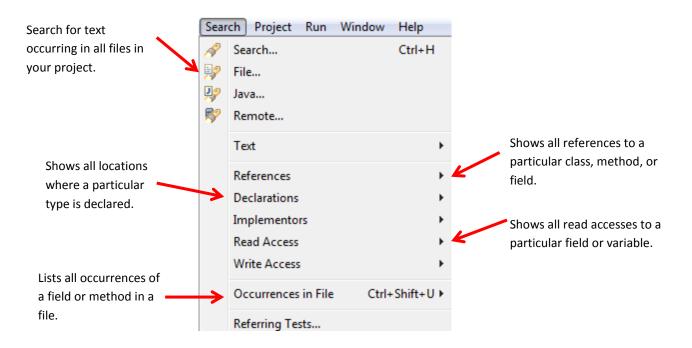
THE NAVIGATE MENU

Used for navigating between classes.



THE SEARCH MENU

Used for searching for text and specific operations in Java classes.



THE RUN MENU

Used to start programs and debug them at runtime.

