# Eclipse settings - Code Clean Up, Code Formatter, Save Actions

## 1. Code Clean Up

Open Preferences->Java->Code Style->Clean Up

| 000  | Preferences  |
|--|--|
| clean up 🛞   | Clean Up 🗘 🗧 🗸 🗸   |
| Clean up<br>Java<br>Code Style<br>Clean Up<br>Clean Up<br>Clean Up | Clean Up Configure Project Specific Settings Active profile: Eclipse [built-in] ‡ Edit Remove New Import Export All Details: Change non static accesses to static members using declaring type Change indirect accesses to static members to direct accesses through subtypes Remove unused imports Add missing @Override' annotations Add missing @Deprecated' annotations Remove unnecessary casts Remove unnecessary 'SNON-NLSS' tags |
|  | Show profile selection dialog for the 'Source > Clean Up' action       Restore Defaults    Apply   |
| (?)  | Cancel OK  |

• Click Import and select "code cleanup.xml" file from config project

| 000                                    | Preferences   |           |  |
|--|---|-----------|--|
| clean up 🚳                             | Clean Up $(\neg * \neg *$   | •         |  |
| ▼Java<br>▼Code Style<br>Clean Up       | Configure Project Specific Setting Active profile:  | <u>js</u> |  |
| ▼JavaScript<br>▼Code Style<br>Clean Up | Eclipse [built-in]       +       Edit       Remove         New       Import       Export All  |           |  |
|  | <ul> <li>Change non static accesses to static members using declaring type</li> <li>Change indirect accesses to static members to direct accesses (accesses through subtype:</li> <li>Remove unused imports</li> <li>Add missing '@Override' annotations</li> <li>Add missing '@Override' annotations to implementations of interface methods</li> <li>Add missing '@Deprecated' annotations</li> <li>Remove unnecessary casts</li> <li>Remove unnecessary '\$NON-NLS\$' tags</li> </ul>  | :5        |  |
| 000                                    | Import Profile  | -         |  |
|  | □ ( , , , , , , , , , , , , , , , , , ,   | $\supset$ |  |
| FAVORITES                              | Name Date N   | Мс        |  |
| 🚇 All My Files                         | classpath Oct 2,  | , 2       |  |
| Applications                           | .pmd Oct 2,   | , 2       |  |
| Desktop                                | checkstylerules.xml     Yester  | rd:       |  |
| Documents                              | Code cleanup.xml May 9  |           |  |
|  | 🐑 code formatter.xml May 9  | 9, 1      |  |
| евоок                                  | ▶ 💼 customize Yester  | rd        |  |
| Downloads                              | licence Oct 2, Oct 2 | , 2       |  |
| Movies                                 | local_template.properties Oct 2,  | , 2       |  |
| 🎜 Music                                | Silocalextensions.xml Oct 2,  | , 2       |  |
| Pictures                               | PMD_ruleset.xml Oct 2,  | , 2       |  |
| SHARED                                 | readme.txt Oct 2,   | , 2       |  |
| SHARED                                 |   |           |  |
|  | *.xml \$  |           |  |
| New Folder                             | Cancel Open   |           |  |
| <b>?</b>                               | Cancel OK   |           |  |

#### 2. Code Formatter

Open Preferences->Java->Code Style->Formatter

| 000   | Preferences                                       |                  |
|---|---|------------------|
| formatter 🛞   | Formatter   | <b>⇔</b> ∗ ⇒ ▼   |
| ▼Ant<br>▼Editor<br>Formatter  | Configure Project S<br>Active profile:            | pecific Settings |
| Formatter<br>Java<br>Code Style<br>Formatter<br>Debug<br>Detail Formatters<br>JavaScript<br>Code Style<br>Formatter | <pre>Active profile:<br/>Eclipse [built-in]</pre> | Remove           |
|   | Restore Defaults                                  | Apply            |
| ?   | Cancel  | ОК               |

• Click Import and select "code formatter.xml" file from config project

| 000   | Preferences  |                     |  |
|---|--|---------------------|--|
| formatter 🛛 🛞                               | Formatter  | ↓ ↓ ↓ ↓             |  |
| ▼Ant<br>▼Editor<br>Formatter                | Configure Project  | t Specific Settings |  |
| ▼Java<br>▼Code Style<br>Formatter<br>▼Debug | Eclipse [built-in]     \$     Edit       New     Import     Export All | Remove              |  |
| ▼JavaScript<br>▼Code Style<br>Formatter     | Preview:   |                     |  |
|   | */   |                     |  |
|   | package mypackage;   |                     |  |
| 000   | Import Profile   |                     |  |
|   | ) 📰 🔻 🚺 config 🛟 🔍   |                     |  |
| FAVORITES                                   | Name   | Date Mc             |  |
| 🚊 All My Files                              | classpath  | Oct 2, 2            |  |
| Applications                                | .pmd   | Oct 2, 2            |  |
| Deskton                                     | .project     .project     .project                                     | Vesterd             |  |
| Documents                                   | Code cleanup.xml   | May 9. 2            |  |
|   | 🔊 code formatter.xml   | May 9, 2            |  |
| eBook                                       | Customize  | Yesterd             |  |
| U Downloads                                 | licence  | Oct 2, 2            |  |
| Movies                                      | local_template.properties  | Oct 2, 2            |  |
| 🎜 Music                                     | 🐑 localextensions.xml  | Oct 2, 2            |  |
| Pictures                                    | MD_ruleset.xml   | Oct 2, 2            |  |
| CUARED                                      | readme.txt   | Oct 2, 2            |  |
| SHARED                                      |  |                     |  |
| *.xml \$                                    |  |                     |  |
| New Folder                                  | Cancel   | Open                |  |
|   | Restore Delauts  |                     |  |
| ?   | Cancel   | ОК                  |  |

## 3. Save Actions

- Open Preferences->Java->Editor->Save Actions
- Do the following configuration (according to screenshots below)

| $\Theta \cap \Theta$ | Preferences  |      |
|----------------------|--|------|
| save ac 🛛 🛞          | Save Actions 🗘 🗧   | · •  |
| ▼Java                | Configure Project Specific Sett  | ings |
| Save Actions         | Perform the selected actions on save   |      |
| ▼JavaScript          | Format source code   |      |
| Save Actions         | Format all lines   |      |
|                      |  |      |
|                      | Configure the formatter settings on the Formatter page   |      |
|                      | Organize imports   |      |
|                      | Configure the organize imports settings on the Organize Imports page   |      |
|                      | Additional actions   |      |
|                      | Add final modifier to private fields     Add missing '@Override' annotations     Add missing '@Override' annotations to implementations of interface meth     Add missing '@Deprecated' annotations     Remove unnecessary casts | e    |
|                      | Restore Defaults Appl  | y    |
| ?                    | Cancel   |      |

Click Confugure...

Code Organizing setup

| Code Organizing Code Style Member  | Accesses Missing Code Unnecessary Code   |
|--|--|
| formatter  | Preview:   |
| <ul> <li>Remove trailing whitespace         <ul> <li>All lines</li> <li>Ignore empty lines</li> </ul> </li> <li>Correct indentation         <ul> <li>Members</li> <li>Sort members</li> <li>Sort all members</li> <li>Ignore fields and enum constants</li> <li>Reordering of fields and initializers can result in semantic and runtime changes.</li> </ul> </li> <li>The settings for sorting members can be changed on the Members Sort Order preference page.</li> </ul> | <pre>/**"     * A Javadoc comment"     * * * @since 2007"     * * "     public class Engine { 1         public void start() { 1         public void start() { 1         public void start() { 1         public · void · foo() { 1         private · void · foo() { 1         private · void · bar() { 1         public · void · bar() · { 1         publ</pre> |
| save actions activated   |  |
| Code Style setup   | Cancel   |
| Code Style setup Additiona   | Cancel O   |
| Code Style setup  Additiona  Code Organizing Code Style Member   | Cancel O<br>I Save Actions<br>Accesses   Missing Code   Unnecessary Code   |
| Code Style setup   | Cancel O<br>I Save Actions<br>Accesses Missing Code Unnecessary Code<br>Preview:<br>If Cobiner multiple  |
| Code Style setup<br>Code Organizing Code Style Member<br>Control statements<br>Use blocks in if/while/for/do statements<br>Always<br>Always except for single 'return' or 'throw' statements<br>Only if necessary<br>Convert 'for' loops to enhanced   | <pre>Cancel O  I Save Actions  Accesses Missing Code Unnecessary Code  Preview:  if (obj -= null) {  throw new IllegalArgumentException(); } if (ids.length &gt; 0) {  System.out.println(ids[0]); } else {  return; }</pre>   |
| Code Style setup<br>Code Organizing Code Style Member<br>Control statements<br>Use blocks in if/while/for/do statements<br>Always<br>Always<br>Only if necessary<br>Convert 'for' loops to enhanced  | Cancel 0<br>Il Save Actions<br>Accesses   Missing Code   Unnecessary Code<br>Preview:<br>if (obj == null) {<br>throw new IllegalArgumentException();<br>}<br>if (ids.length > 0) {<br>System.out.println(ids[0]);<br>} else {<br>return;<br>}<br>for (int i = 0; i < ids.length; i+t) {  |
| Code Style setup<br>Code Organizing Code Style Member<br>Control statements<br>Use blocks in if/while/for/do statements<br>Always<br>Always except for single 'return' or 'throw' statements<br>Only if necessary<br>Convert 'for' loops to enhanced<br>Expressions<br>Use parentheses in expressions<br>Always<br>Only if necessary<br>Only if necessary  | <pre>Cancel 0  I Save Actions  Accesses Missing Code Unnecessary Code  Preview:  if (obj == null) {  throw new IllegalArgumentException(); } if (ids.length &gt; 0) {  System.out.println(ids[0]); } else {  return; } for (int i = 0; i &lt; ids.length; i++) {  double value= ids[i] / 2;  System.out.println(value); } boolean b= (i &gt; 0 &amp;&amp; i &lt; 10    i == 50); </pre>  |
| Code Style setup  Code Organizing Code Style Member Control statements  Use blocks in if/while/for/do statements  Always Always Only if necessary Convert 'for' loops to enhanced  Expressions Use parentheses in expressions Always Only if necessary Variable declarations   | <pre>Cancel 0  I Save Actions  Accesses Missing Code Unnecessary Code  Preview:  if (obj == null) {  throw new IllegalArgumentException(); } if (ids.length &gt; 0) {  System.out.println(ids[0]); } else {  return; }  for (int i = 0; i &lt; ids.length; i++) {  double value= ids[i] / 2;  System.out.println(value); } boolean b= (i &gt; 0 &amp;&amp; i &lt; 10    i == 50); private final int i= 0; </pre>   |
| Code Style setup  Code Organizing Code Style Member  Control statements  Use blocks in if/while/for/do statements  Always Always Always Always except for single 'return' or 'throw' statements Only if necessary Convert 'for' loops to enhanced  Expressions Use parentheses in expressions Always Only if necessary Variable declarations  Use modifier 'final' where possible  Use modifier 'final' where possible   | Cancel 0<br>Accesses Missing Code Unnecessary Code<br>Preview:<br>if (obj == null) {<br>throw new IllegalArgumentException();<br>}<br>if (ids.length > 0) {<br>System.out.println(ids[0]);<br>} else {<br>return;<br>}<br>for (int i = 0; i < ids.length; i++) {<br>double value= ids[i] / 2;<br>System.out.println(value);<br>}<br>boolean b= (i > 0 && i < 10    i == 50);<br>private final int i= 0;<br>public void foo(final int j) {<br>final int k;<br>int h;  |

OK

Cancel

Member Accesses

?

| O     O     Additional Save Actions  |  |  |  |
|--|--|--|--|
| Code Organizing Code Style Member  | Accesses Missing Code Unnecessary Code   |  |  |
| Non static accesses  | Preview:   |  |  |
| <ul> <li>Use 'this' qualifier for field accesses</li> <li>Always</li> <li>Only if necessary</li> <li>Use 'this' qualifier for method accesses</li> <li>Always</li> <li>Only if necessary</li> </ul>  | <pre>private int value;<br/>public int get() {<br/>return this.value + this.value;<br/>}<br/>public int getZero() {</pre>  |  |  |
| Static accesses          Static accesses         Qualify field accesses         Qualify method accesses         Qualify method accesses         Change all accesses through subtypes         Change all accesses through instances         14 of 26 save actions activated | <pre>return this.get() - get(); } class E {     public static int NUMBER;     public static void set(int i) {         NUMBER= i;     }     public void reset() {         E.set(0);     } } class ESub extends E {     public void reset() {         E.NUMBER= 0;     } Cancel OK</pre>   |  |  |
| Missing Code   |  |  |  |
| O O Additiona  | Il Save Actions  |  |  |
| Code Organizing   Code Style   Member  | Accesses Missing Code Unnecessary Code   |  |  |
| Annotations          Add missing Annotations         Implementations of interface methods (1.6 or higher)         Implementations of interface methods (1.6 or higher)         Implementations   | <pre>Preview:<br/>class E {<br/>/**<br/>@Deprecated<br/>public void foo() {}<br/>}<br/>class ESub extends E implements Runnable {<br/>@Override<br/>public void foo() {}<br/>@Override<br/>public void run() {}<br/>}<br/>class E implements java.io.Serializable {<br/>}<br/>public class Face implements IFace {<br/>}</pre> |  |  |
| 14 of 26 save actions activated  | Cancel   |  |  |

• Unnecessary Code

|   | Code Organizing Code Style Membe                                    | r Accesses Missing Code Unnecessary Code  |  |
|---|---|---|--|
| Unused code   | Code organizing   Code Style   Membe                                | Preview:  |  |
| <ul> <li>Remove unused impo</li> <li>Remove unused priva</li> <li>Types</li> <li>Remove unused local</li> </ul> | orts<br>ite members<br>constructors 🗹 Fields 🗹 Methods<br>variables | <pre>class Example {     private class Sub {}     public Example(boolean b) {}     private Example() {}     private int fField;     private void foo() {}     public void bar() {</pre> |  |
| Unnecessary code  |   | }   |  |
| Remove unnecessary  | casts   | Boolean b= Boolean.TRUE;  |  |
| Remove unnecessary  | '\$NON-NLS\$' tags  | <pre>public String s; //\$NON-NLS-1\$</pre>   |  |
|   |   |   |  |
| 26 save actions activated   |   |   |  |
|   |   |   |  |

• After setting all Additional Save Actions, the result should look like that

| $\bigcirc \bigcirc \bigcirc$ | Preferences   |                   |
|------------------------------|---|-------------------|
| save ac 💿                    | Save Actions  | <b>⇔</b> ∗ ⇔ ∗ ▼  |
| ▼Java<br>▼Editor             | Configure Project   | Specific Settings |
| Save Actions                 | ✓ Perform the selected actions on save  |                   |
| ▼JavaScript<br>▼Editor       | ✓ Format source code  |                   |
| Save Actions                 | • Format all lines  |                   |
|                              | O Format edited lines   |                   |
|                              | Configure the formatter settings on the Formatter page.   |                   |
|                              | ☑ Organize imports  |                   |
|                              | Configure the organize imports settings on the Organize Imports page.   |                   |
|                              | ☑ Additional actions  |                   |
|                              | <ul> <li>Add 'this' qualifier to unqualified field accesses</li> <li>Qualify accesses to static methods with declaring class</li> <li>Change non static accesses to static members using declaring type</li> <li>Change indirect accesses to static members to direct accesses (accesses th</li> <li>Convert control statement bodies to block</li> <li>Add final modifier to private fields</li> <li>Add final modifier to local variables</li> <li>Remove unused local variables</li> <li>Add missing '@Override' annotations</li> <li>Add missing '@Override' annotations</li> <li>Remove unnecessary casts</li> <li>Remove trailing white spaces on all lines</li> <li>Correct indentation</li> </ul> | Configure         |
|                              | Restore Defaults  | Apply             |
| ?                            | Cancel  | ОК                |

# 4. Other settings

Set Text Editor for impexes

- Open Preferences->General->Editors->File Associations
- Define new file type for \*.impex

| 000                           | Preferences  |         |
|-------------------------------|--|---------|
| file ass                      | Define a New File Type   | ↓ → < ▼ |
| ▼General                      | Enter file type to add: (*.doc or report.doc for example)  |         |
| ▼Editors<br>File Associations |  |         |
|                               | File type: *.impex   | Add     |
|                               |  |         |
|                               |  | Remove  |
|                               |  |         |
|                               |  | Ť.      |
|                               |  |         |
|                               | Cancel OK  |         |
|                               | is the second se |         |
|                               | ► Jop<br>■ * icof  |         |
|                               | Accordiated editors  |         |
|                               |  | Add     |
|                               |  | Add     |
|                               |  | Remove  |
|                               |  | Default |
|                               |  |         |
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|                               |  |         |
|                               |  |         |
|                               |  |         |
|                               |  |         |
| ·•                            | Cancel   | ОК      |

• With \*.impex File Type selected in File Types box, click Add on Associated Editors and select Text Editor

| 000                                       | Preferences  |                          |
|---|--|--------------------------|
| file ass 💿                                | File Associations  | <b>⇔</b> ∗ ⇔ ∗ ▼         |
| ▼General<br>▼Editors<br>File Associations | See <u>'Content Types</u> ' for content-type based file associations.<br>File types:<br>*.aj<br>*.class without source<br>*.ddl  | Add                      |
|   | indification         indification | Kemove                   |
|   | Choose the editor for files of type (*.impex)   Internal editors   Internal editors   Spring Config Editor   Spring Web Flow XML Editor   SQL Editor   SQL File Editor   Itable Data Editor   Table of Contents Editor   Task Editor   Task Editor   Task Editor   Cancel  | Add<br>Remove<br>Default |
| ?   | Cancel   | ОК                       |

ImpEx documentation can be found here - ImpEx Documentation

Set Workspace Encoding to UFT-8

- Open Preferences->General->Workspace
- Select Text File encoding to UTF-8

| $\bigcirc \bigcirc \bigcirc$  | Preferences                                  |  |
|---|--|--|
| type filter text  | Workspace                                    | ⇔ - ⇒                                  |
| ▼General<br>▶Appearance<br>Compare/Patch  | See <u>'Startup and Shutdown</u> ' for works | pace startup and shutdown preferences. |
| Content Types<br>▶Editors   | Build automatically                          |  |
| Keys  | Refresh using native hooks or poll           | ling                                   |
| Network Connections<br>Perspectives   | Refresh on access                            |  |
| Search  | Save automatically before build              |  |
| Security<br>Service Policies  | Always close unrelated projects w            | ithout prompt                          |
| ▶ Startup and Shutdown<br>Tracing<br>Web Browser  | Workspace save interval (in minutes):        | 5                                      |
| ► Workspace   | Workspace name (shown in window ti           | tle):                                  |
| <ul> <li>Ant<br/>AspectJ Compiler</li> <li>Atlassian Connector<br/>Checkstyle</li> <li>Data Management</li> </ul> | Open referenced projects when a p            | roject is opened                       |
| ►Help<br>►Install/Update  | Text file encoding                           | New text file line delimiter           |
| ▶Java<br>▶Java EE   | O Default (US-ASCII)                         | • Default (Unix)                       |
| <ul> <li>Java Persistence</li> <li>JavaScript</li> <li>JDT Weaving</li> <li>JRebel</li> </ul>                     | ● Other: UTF-8 ▼                             | O Other: Unix +                        |
| Maven   |  |  |
| ▶ Plug-in Development   |  | Restore Defaults Apply                 |
|   |  |  |
| ?   |  | Cancel OK                              |