

Eclipse

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Content

- 1 Installation of Eclipse
- 2 Installaton of Spring Tools
- 3 Installation of WWD
- 4 Configurations
- 5 Create new project
- 6 Import an existing project
- 7 Reformatting code

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Install Eclipse

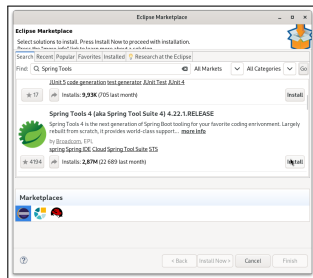
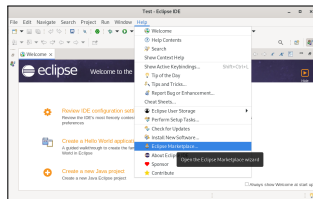
- ▶ Use the version *Eclipse IDE for Java Developers*.
 - You can use the Eclipse installation from DAT108.
 - I will use the last stable version.
- ▶ Download Eclipse and install.

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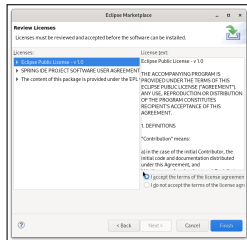
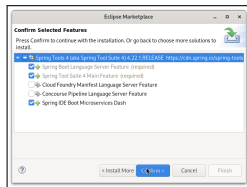
Spring Tools - step one

- ▶ Menu “Help|Eclipse Marketplace”.
- ▶ Pane “Search”, fill in *Spring Tools*, and click *Go*.
- ▶ Navigate to *Spring Tools (...)* 4.31.0 *RELEASE* and click *Install*.
- ▶ Observe: There can be a time delay between the display of the windows shown on the next slides.



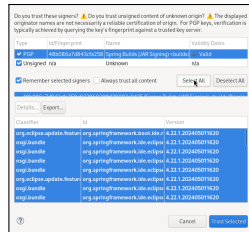
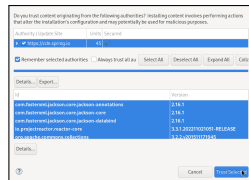
Spring Tools - step two

- Keep the suggestions in the window *Confirm Selected Features*, and click *Confirm*.
- Accept the license and then click *Finish*.



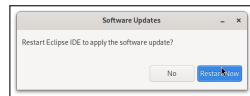
Spring Tools - step three

- ▶ In the window *Do you trust content ...*, make a notch for *https://cdn.spring.io* and click the button *Trust Selected*
- ▶ In the window *Do you trust these signers*, click *Select All*, and then the button *Trust Selected*



Spring Tools - step four

- ▶ In the window *Software Updates*, click the button *Restart Now* to activate the new packages.

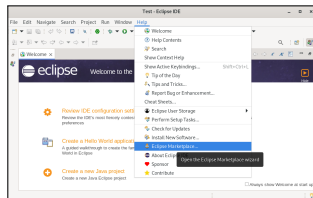


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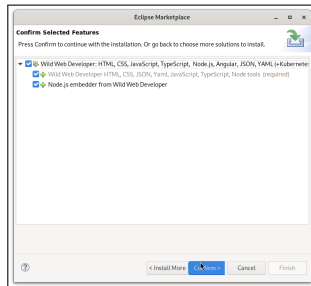
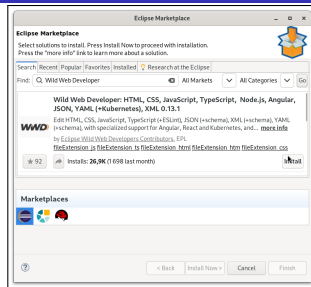
Wild Web Developer (WWD) - step one

- ▶ WWD is not mandatory, but very useful.
- ▶ WWD enables code tips and auto complete for HTML, JavaScript and CSS.
- ▶ Menu “Help|Eclipse Marketplace”.
- ▶ Pane “Search”, fill in *Wild Web Developer*, and then click *Go*.



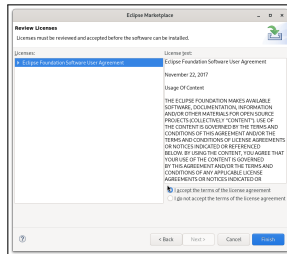
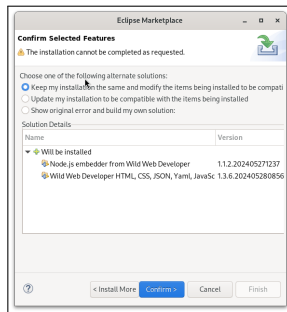
Wild Web Developer - step two

- ▶ Click *Install* on *Wild Web Developer: HTML, CSS, ...*.
- ▶ In the window *Confirm Selected Features*, choose everything, then click *Confirm*.



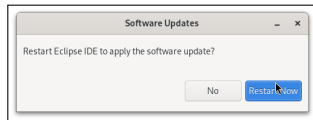
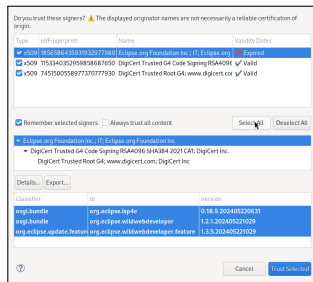
Wild Web Developer - step three

- ▶ If message *The installation cannot be completed as requested* you can select *Keep my installation the same* ... and click *Confirm*.
- ▶ You must accept the license, then click *Finish*.



Wild Web Developer - step four

- ▶ In the window *Do you trust the signers*, click *Select All* and then the button *Trust Selected*.
- ▶ In the window *Software Updates*, click the button *Restart Now* to activate the new packages.

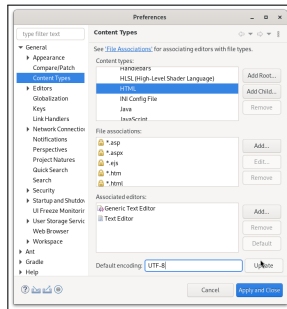
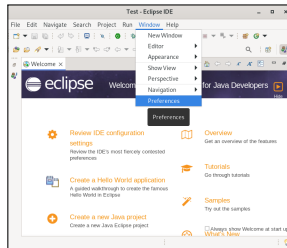


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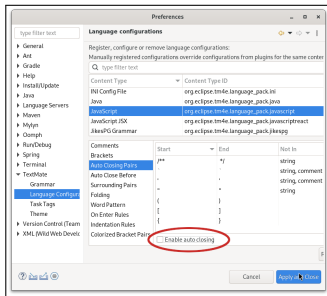
Character set

- ▶ Specifying a character set is not necessary if the computer uses UTF-8 as default.
 - Character set for web **must be UTF-8**.
- ▶ Menu “Window|Preferences”, select *General|Content types*.
- ▶ Below *Content types*, locate *Text|Wild Web Developer* . . .
- ▶ For each of *HTML* and *JavaScript*, specify UTF-8 as *Default encoding* and click *Update*.



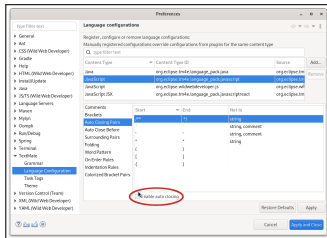
Indentation of JavaScript code

- ▶ This configuration can be useful, but not required.
- ▶ Menu “Window|Preferences”.
- ▶ Locate “General|Editors|Text Editors”.
- ▶ Select *Insert spaces for tabs*.
- ▶ Set *Displayed tab width* to 4.



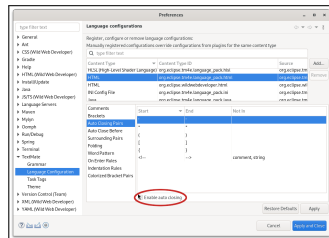
Disable auto close of brackets in JavaScript code

- ▶ This configuration can be useful, but not required.
- ▶ Menu “Window|Preferences”.
- ▶ Select “TextMate|Language Configuration”.
- ▶ Below *Content Type* select *JavaScript*, both:
 - org.eclipse.wildwebdeveloper.js
 - org.eclipse.tm4e...
- ▶ Pane *Auto Closing Pairs*, unselect *Enable auto closing*.



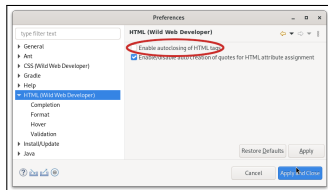
Disable auto close of brackets in HTML code

- ▶ This configuration can be useful, but not required.
- ▶ Menu “Window|Preferences”.
- ▶ Select “TextMate|Language Configuration”.
- ▶ Below *Content Type* select *HTML*, both
 - org.eclipse.wildwebdeveloper.html
 - org.eclipse.tm4e...
- ▶ Unselect *Enable auto closing*.



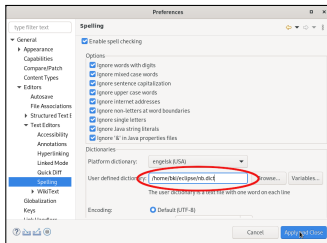
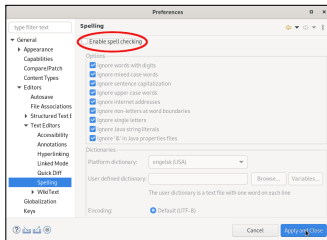
Disable auto close of HTML tags in HTML code

- ▶ This configuration can be useful, but not required.
- ▶ Menu “Window|Preferences”.
- ▶ Locate “HTML (Wild Web Developer)”.
- ▶ Unselect
Enable autoclosing of HTML tags.



Spell checking and dictionary

- ▶ Menu “Window|Preferences”.
- ▶ Locate
“General|Editors|Text Editors|Spelling”.
- ▶ If a Non-English language, either
 - Turn off spell checking, or
 - install a new dictionary.
- ▶ UTF-8 dictionaries, **generated with aspell**:
 - Bokmål.
 - Nynorsk.

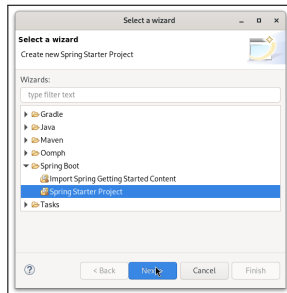
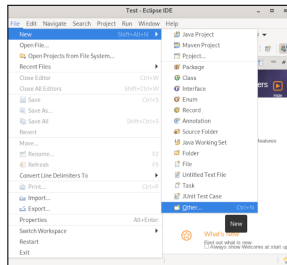


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Spring Starter Project - create a new project

- ▶ Menu “File|New|Other”.
- ▶ Select “Spring Boot|Spring Starter Project” and click *Next*.



Spring Starter Project - project details

- ▶ Give the project a sensible name.
- ▶ Project type should be *Maven*.
- ▶ Packaging type specifies how project will be deployed on a production server.
 - *War* if using an existing web server.
 - *Jar* if the project is the web server.
 - Value is not important for DAT152.
- ▶ Field *Package* should begin with content of the *Group*.
- ▶ Insert a useful description.
- ▶ Click *Next*.

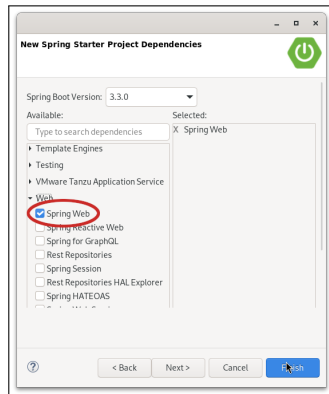
The screenshot shows the 'New Spring Starter Project' dialog box. The fields and their values are as follows:

- Service URL: `https://start.spring.io`
- Name: `JSDemo`
- Use default location: ☒
- Location: `/home/bki/eclipse/workspaces/dat152/h2024/intro`
- Type: `Maven`
- Packaging: `War`
- Java Version: `21`
- Language: `Java`
- Group: `no.hvl.dat152`
- Artifact: `JSDemo`
- Version: `0.0.1-SNAPSHOT`
- Description: `My first Spring Boot project for JavaScript`
- Package: `no.hvl.dat152.demo`

At the bottom, there is a 'Working sets' section with an 'Add project to working sets' checkbox and a 'New...' button. The 'Next' button is highlighted in blue.

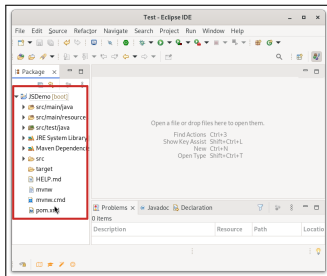
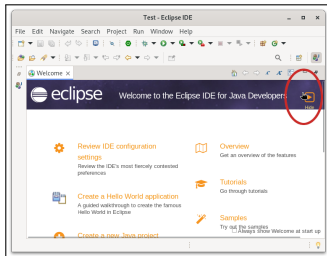
Spring Starter Project - project dependencies

- ▶ Add *Spring Web* as a project dependency.
- ▶ Click *Finish*.



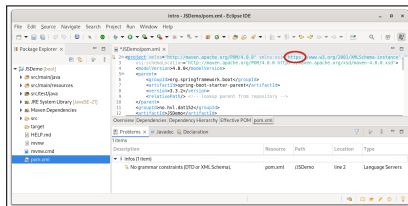
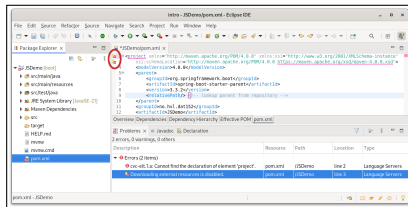
Spring Starter Project – the POM file

- ▶ Click *Hide* in the Eclipse welcome screen to see the project structure.
- ▶ Double click on the POM file to open.



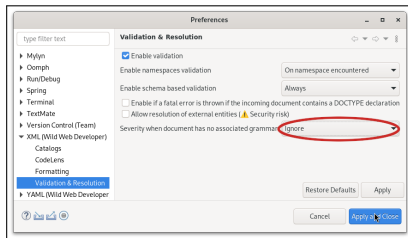
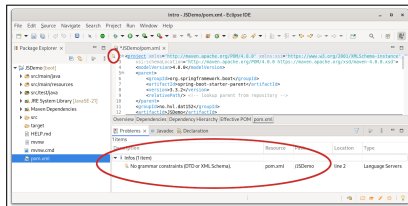
Spring Starter Project – correct the POM file

- ▶ Eclipse will tell that the POM file has errors.
- ▶ Solution is to replace *http* with *https*.



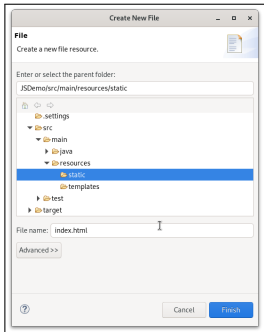
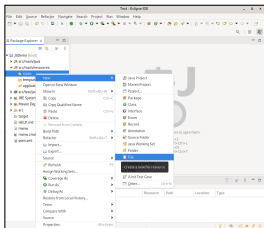
Spring Starter Project – no grammar for POM file

- ▶ Eclipse will tell that the POM file has no grammar.
- ▶ Menu “Window|XML (Wild Web Developer)”, choose *Validation & Resolution*.
- ▶ Select *Ignore* for *Severity when document has no associated grammar*



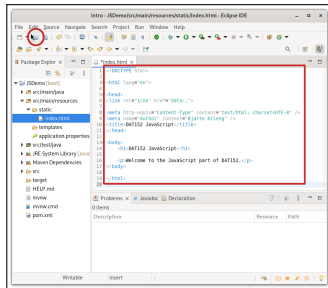
Spring Starter Project – create a web index file

- ▶ Right click in the left menu on “src/main/resources/static” to create a file.
- ▶ Select “New|File”.
- ▶ Name the file **index.html**, then click *Finish*.



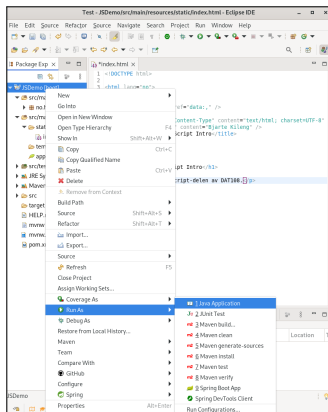
Spring Starter Project – Web content of **index.html**

- ▶ Double click on file **index.html** to open in editor.
- ▶ Fill the file with HTML code.
- ▶ Save the file.



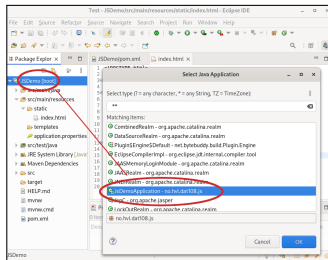
Spring Starter Project – run the web project – step one

- ▶ Right click on name of project in explorer window and select *Run As*.
- ▶ Select *Java Application*.



Spring Starter Project – run the web project – step two

- ▶ In window *Select Java Application*, locate and select the Spring Boot project, then click *OK*.
- ▶ In the web browser, use URL <http://localhost:8080> to load the index page.

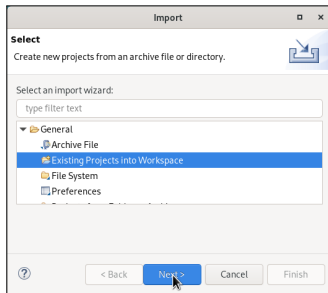
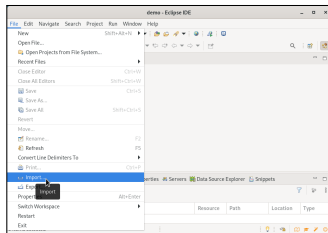


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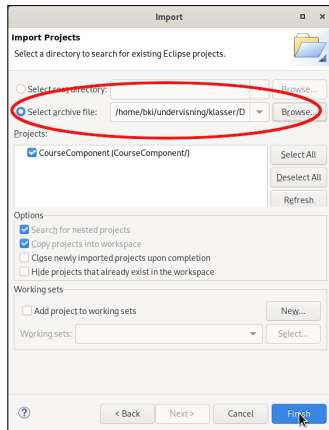
Import existing project into Eclipse

- ▶ Menu “File|Import”.
- ▶ Select “General|Existing Projects into Workspace” and then click *Next*.



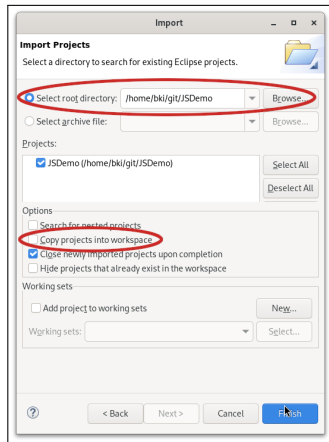
Import existing project into Eclipse – archive file

- ▶ If project is packaged in an archive file, select *Select archive file*.
- ▶ Click *Browse* and navigate on disk to the archive.
- ▶ Click *Finish*.



Import existing project into Eclipse – folder structure

- ▶ If importing an Eclipse project folder, select *Select root directory*.
- ▶ Click *Browse* and navigate on disk to the root folder of the project.
- ▶ Files are not copied by default.
 - Modifications are written to the source folder structure that was imported.
- ▶ Click *Finish*.



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Reformatting JavaScript, CSS and HTML

► Several approaches:

- Key combination **Ctrl+Shift+F** in editor window.
- Right click on the file in *Project Explorer*, and then select “Source|Format”.

► Formatting will also remove white space on empty lines and from end of lines.

