

Warming up: NetBeans, HTML, CSS and a little JavaScript

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Objectives

The goal for this warming up is to familiarize with the environment and test some basic web techniques (no real server side functionality). This is optional but recommended if area is unknown to you.

You need the following tools and skills;

- NetBeans IDE.
- Basic HTML, CSS and JavaScript.

Please, have a look at the code samples, everything you need should be there. Also links in slides for more detailed information. Also use the Web!

Create a NetBeans Maven JEE Project

1. Start NetBeans : File > New Project > Maven > Web Application > Next
2. Select name and location for project (create course directory). Next
3. Select Server: Tomcat ... Finish

Some HTML

There will be a default index.html file created

1. Select file > Right click > View. Should show up in browser (NOTE: this is from local file system, see URL in browser)
2. Select file. Menu Windows > IDE Tools > Palette (some basic HTML help, select and drag into page)
3. Test some HTML elements from palette. Use view to inspect (reload).

NOTE: Error checking for HTML in NetBeans seems a bit shaky (can't trust)

Run on Server

1. Select project > Run (this assumes you selected Tomcat when project created, if not: Mark project > Right click > Properties > Run > Select Tomcat)
2. Add another HTML file: Mark Web Pages > New ... > Other > HTML5 > HTML file > Next.
3. Add links between the two pages.

Some CSS

Let's add some style

1. Mark Web pages > New > Other > Other > Cascading Style Sheet > Next. Name it > Finish
2. A new CSS will show up.
3. Right click in CSS file > Insert code > CSS Rule.
4. Select HTML element `<a>` for the rule.
5. In rule (between `{ .. }`) use code completion to add some declarations (font or similar for the link)
6. Link stylesheet to index.html. Run and check.
7. Create rules for id and class attributes (add id and class to some elements)
8. Use Chrome Developer Tools (or similar to inspect page and CSS in browser)

Some JavaScript

Now add some JavaScript

1. Mark Web pages > New > Other > HTML5 > JavaScript File > Next
2. Name and save.
3. Add a function hello. Function just shows an alert (i. e. `alert("hello")`)
4. Create a button in some page and connect function to onclick event.
5. Connect JavaScript file and HTML file (`<script>`-tag)
6. Test (if fail check with developer tools: Is file downloaded?)

A Web Calculator with HTML, CSS and JS

Try to create a calculator using the basic techniques. Search web for hints, code snippets and inspiration (there are many tutorials).

