Web Technologies I

Practical class: HTML

Find these slides @ E-studijas / HTML: Elements section
"HTML - Practical class (lab.d.) description"

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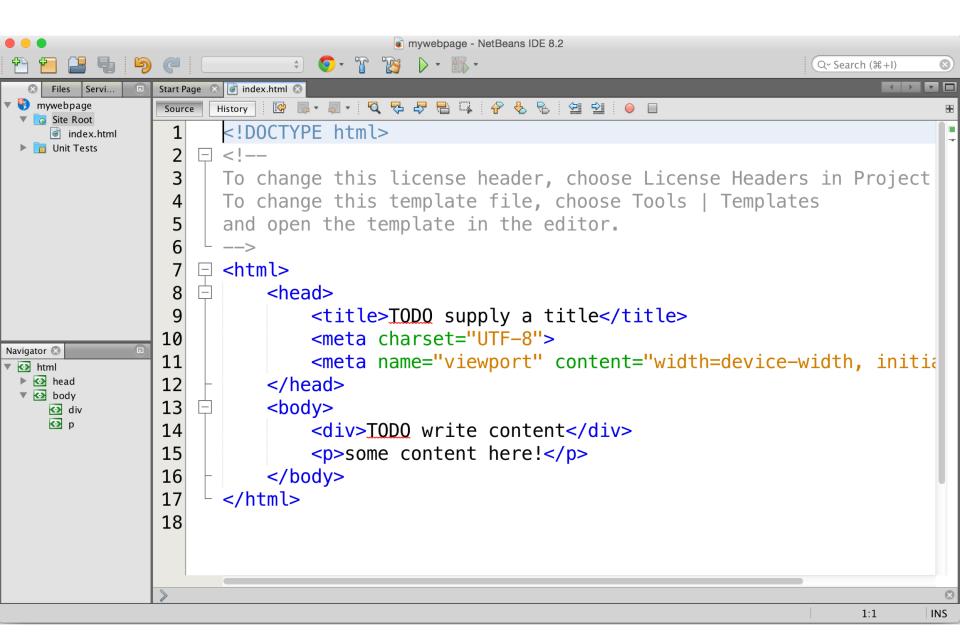# Practical class: grading

- 3 classes during semester (see course schedule):
  - HTML, CSS, JavaScript

- Grade: +10% bonus to the final grade:
  - +5% for the HTML and/or CSS class (weeks 5 and 10)
  - +5% for the JavaScript class (week 15)

- Attendance: optional

Resources

- E-studijas portal:
  - Slides: HTML elements
  - Code Examples (listed after the slides)
    - see "Code Examples cont."

- HTML resources on the Web
  - https://www.w3schools.com/
  - W3Schools HTML5 Style Guide and Coding Conventions

Tools

- Text / HTML editor
  - NetBeans, Visual Studio Code, Sublime Text, ...
- Web browser
  - Chrome, Firefox, ...

- **HTML validator** (W3C)
  - https://validator.w3.org

- View source (in the browser)

- **Developer tools**
  - Chrome: Ctrl+Shift+I
  - Firefox: F12

```html
<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project
To change this template file, choose Tools | Templates
and open the template in the editor.
-->
<html>
    <head>
        <title>TODO supply a title</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initia
    </head>
    <body>
        <div>TODO write content</div>
        <p>some content here!</p>
    </body>
</html>
```

Create an HTML page

Mandatory:

- Basic HTML elements
  - Headings
  - Paragraphs
  - Text formatting
- Lists (ordered, etc.)
- Links
  - Internal & external
- Images
- Tables

- Author information
  - Full name, student ID

Valid HTML5, UTF-8 encoding

Optional:
- Semantic HTML5 blocks
- Video, audio, …
- Forms
- Other HTML elements
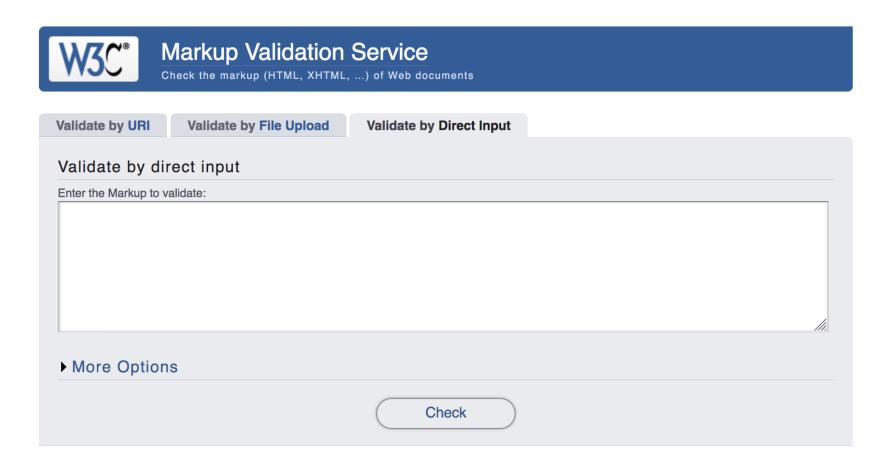 - Quotations, forms

- CSS styling
- JavaScript

Check-point (after 30 min)

Demonstrate a simple webpage (**Valid HTML5** with UTF-8 encoding) with at least these elements:

- Basic HTML elements
  - Headings
  - Paragraphs
  - Text formatting
- Lists (at least one type)
- Author information
  - Full name, student ID

Notes:
  - **check your page with the W3C HTML validator (!)**
  - the page must include Latvian special characters
    (to demonstrate that special characters are displayed OK)

W3C® Markup Validation Service

Check the markup (HTML, XHTML, ...) of Web documents

Validate by **URI**   Validate by **File Upload**   Validate by **Direct Input**

Validate by direct input

Enter the Markup to validate:

▸ More Options

Check

To validate your HTML code, use either the "Direct Input" (paste your code into the text box, make sure you copy everything, including DOCTYPE) or the "File Upload" option.

You can ignore most warnings + error messages that tell you to use CSS instead (as the topic of this class is not about using CSS).

Internal HTML Links

- W3Schools.com – HTML Links
  - Section "HTML Links - Create a Bookmark"

- HTML Elements slides – see slide #29

- *id* attribute – give a unique ID to an HTML element so that it can be referred to.

```html
<h2 id="sect12">A section far, far away...</h2>
```