Module 2:
Creating static web pages using HTML5 and CSS3

B) Text markup and special characters

December 2022

Coding

Make **IT** real

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HTML Entities

- Sometimes we need to use special characters or symbols that are not present on our keyboard
  - Example: Spanish characters or german vowels on a rench keyboard
- HTML supports so-called **entities**:

```
<p>
    &iexcl;Hola! &iquest;C&oacute;mo te va?
</p>
```

¡Hola! ¿Cómo te va?

HTML Entities

- Syntax:
  - &entity_name;

- Examples:
  - **&i**excl;   (inverted exclamation mark)   ¡
  - **&i**quest; (inverted question mark)   ¿
  - π   (Symbol of pi)   π

HTML Entities

- **<u>Another example</u>**

- Imagine we want to print the following text:

Mexico<Tokio and Mumbai>London

- In HTML we would write:

```
<p>Mexico<Tokio and Mumbai>London</p>
```

- But the Output becomes:

MexicoLondon

- Why?

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HTML Entities

- HTML would consider the part

`<Tokio and Mumbai>`

- as an HTML-Element and since it does not exist, it won't show up.
- Solution: Use HTML-Entities:

`<p>Mexico<Tokio and Mumbai>London</p>`

- **&l**t; (lower than), **&g**t; (greater than)

Mexico<Tokio and Mumbai>London

HTML markups

- Texts often contain individual words, phrases or passages that have a recognizable special meaning.

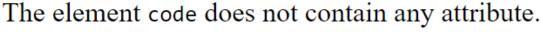- In HTML, such content can be marked with so-called text markup elements.

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The WWW is full of abbreviations.

The element code does not contain any attribute.

With CTRL + A you can copy a whole text.

Note: *The deadline is* **December 20, 2022**

Some highlighted code in Python:

```
for i in range(3):
    print(f"{i}")
}
```

Sub- and superscripts in HTML:

[1] Reaction scheme: $2\,H_2 \rightarrow 2\,H_2 + O_2$

[2] Calculate circular area: $A = \pi * r^2$

Fine print with small:

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Abbreviation `<abbr>`

The W̲W̲W̲ is full of abbreviations.

```html
<p>The <abbr title="World Wide Web">WWW</abbr> is full of abbreviations.</p>
```

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`<code>` and `<pre>` elements

The element code does not contain any attribute.

```html
<p>The element <code>code</code> does not contain any attribute.</p>
```

- Very often used in combination with `<pre>`

```html
<pre>
  <code>
    for i in range(3):
        print(f"{i}")
    }
  </code>
</pre>
```

```
for i in range(3):
        print(f"{i}")
}
```

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Keyboard `<kbd>`

With CTRL + A you can copy a whole text.

```
<p>With <kbd>CTRL</kbd> + <kbd>A</kbd> you can copy a whole text.</p>
```

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Text emphasizing `<em>` and `<strong>`

Note: *The deadline is **December 20, 2022***

```
<p><strong>Note:</strong> <em>The deadline is <strong>December 20, 2022</strong></em>
```

- Do not use these tags for styling purposes (bold/italic)!
- This shall be achieved with CSS (later in the course)

Highlightning `<mark>`

Some <mark style="background-color: yellow;">highlighted</mark> word

```
Some <mark>highlighted</mark> word
```

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Sub- and superscripting `<sup>`,`<sub>`

Sub- and superscripts in HTML:

[1] Reaction scheme: $2\,H_2 \rightarrow 2\,H_2 + O_2$

[2] Calculate circular area: $A = \pi * r^2$

```
Sub- and superscripts in HTML: <br>
<sup>[1]</sup> Reaction scheme: 2 H<sub>2</sub> &RightArrow; 2 H<sub>2</sub> + O<sub>2</sub> <br>
<sup>[2]</sup> Calculate circular area: A = &pi; * r<sup>2</sup>
```

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Fine printing `<small>`

Fine print with small:

© Max Mustermann December 10, 2022

```
Fine print with small: <br>
<small>&copy; Max Mustermann <time datetime="2022-12-10">December 10, 2022</time></small>
```

- `<time>` is used to enable better search engine results or custom features such as reminders

Exercices

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