

HTML / CSS Basics

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Agenda

- Assessment of levels
- The World Wide Web
- HTML basics
- CSS basics
- Hands on projects

The WWW

- Tim Berners-Lee in 1989
- Hyperlinking documents at CERN

<html>

Hypertext Markup Language

- An HTML page is an arrangement of different markup elements (tags).
- Subset of XML (Extensible Markup Language)

<> Tags

- Tags are the building blocks of a web page.
- Most tags need to be opened and closed.
- Some tags only need to be opened.
- Tags can have attributes.
- Tags can be nested.
- By default, some tags are block level and some inline level elements.

<a>

attribute name

attribute value

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Frequently used tags

a	hyperlink
br	line break
div	document division
h1 through h6	headline
img	image
input	for different user input
main	main content area
meta	for document information
nav	navigation section
p	paragraph
section	document section
table	tabular data
ul	unordered list

How? Editors.

- **Atom** (<https://atom.io/>)
free
- **Brackets** (<http://brackets.io/>)
free
- **Visual Studio** (<https://www.visualstudio.com/>)
free
- **Jet Brains IDEs** (<https://www.jetbrains.com/>)
free educational licenses

I tag you. Let's go.

{CSS}

Cascading Style Sheet

- With CSS you can give your web page style.
- HTML elements are the concrete, wood, metal.
CSS rules are the paint, tapestry, lighting.
- Why cascading? Inheritance. Specificity.

CSS syntax

- A css declaration is called a „rule“ and applies to „selectors“.
- Selectors can be html tags, classes, ids and others.
- Within the rule, different properties and values define a certain behavior.
- Units are typically pixels (px), percent (%), ems (em) or rems (rem).

Frequently used CSS properties

background-color	speaks for itself ;)
border	border style and color
color	text color
display	block, inline, inline-block, ...
float	to arrange elements side by side
font-family	set the typography
font-size	typography size
height	height of an element
margin	outer distance
padding	inner distance
position	within the page flow or not
text-decoration	e.g. underline
width	width of an element

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A CSS rule

```
<a href="http://dinko.de">More at dinko.de</a>
```

```
selector {  
  property: value;  
}
```

```
a {  
  color: cornflowerblue;  
  font-size: 20px;  
  text-decoration: none;  
}
```

Let's get some styling going.

