HTML / CSS Basics

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- 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>

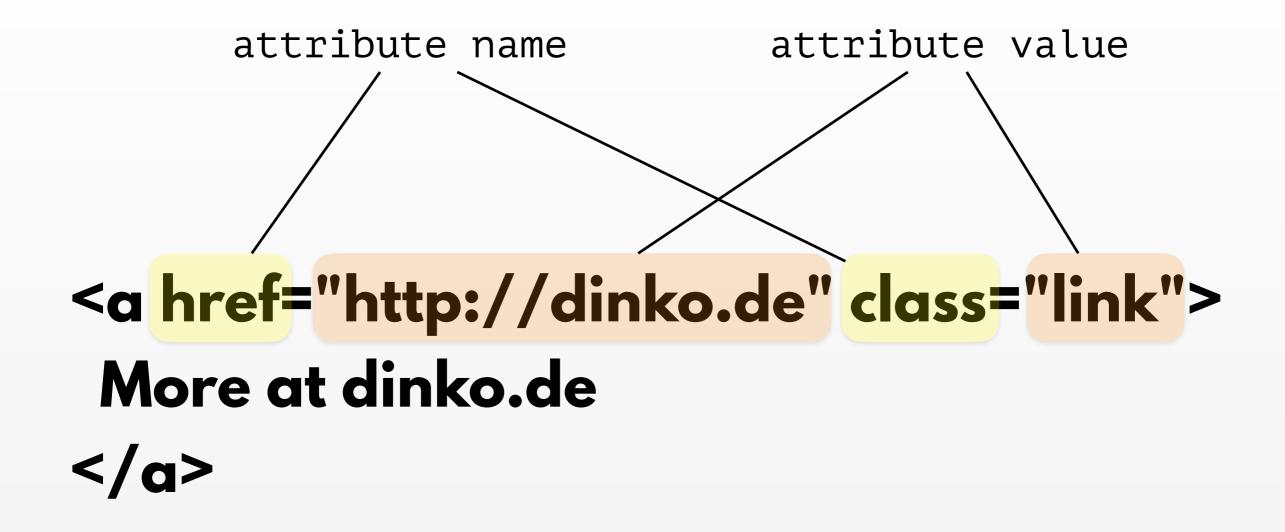
Hypertext Markup Language

- 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.





Frequently used tags

a hyperlink

br line break

div
document division

h1 through h6 headline

img image

input for different user input

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

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

text-decoration e.g. underline

width of an element

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

A CSS rule

Let's get some styling going.

