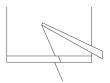
Bring ideas to life

VIA University College



Introduction to CSS

RWD I1

Exercises from last time





Recap images

```
<img src="images/nemo.jpg" alt= "Picture of my dog Nemo"
title= "RWD I1 lecturer Line's dog Nemo"/>
```

src: URL to the picture/image to show

alt: Description of the picture – shown if the picture can't be seen

Can be read by screen readers

title: Description of the picture

Often shown as tool tip when hovering

over the picture

Recap - Thumbnail Image

A small image configured to link to a larger version of that

image



<img src="small.jpg" alt="country road"
width="200" height="100"/>

What is CSS?

- CSS is an acronym for Cascading Style Sheets
- CSS is a style language that defines layout of HTML documents
- CSS offers more options and is more accurate and sophisticated than inline styling in HTML
- HTML is used to structure content
- CSS is used for formatting structured content

Understanding CSS: Thinking Inside the Box

The Cottage Garden

The cottage garden is a distinct style of garden that uses an informal design, dense planting and a mixture of ornamental and edible plants.

The Cottage Garden originated in England and its history can be traced back for centuries, although they were re-invented in 1870's England, when stylized versions were formed as a reaction to the more structured and rigorously maintained English estate gardens.

The earliest cottage gardens were more practical than their modern descendants, with an emphasis on vegetables and herbs, along with some fruit trees.

The HTML code

```
<h1>From Garden to Plate</h1>
A <i>potager</i> is a French term for
   an ornamental vegetable or kitchen
   garden...
<h2>What to Plant</h2>
Plants are chosen as much for their
   functionality as for their color and
   form...
```



From Garden to Plate

A *potager* is a French term for an ornamental vegetable or kitchen garden. Often flowers (edible and non-edible) and herbs are planted with the vegetables to enhance the garden's beauty. The goal is to make the function of providing food aesthetically pleasing.

What to Plant

Plants are chosen as much for their functionality as for their color and form. Many are trained to grow upward. A well-designed potager can provide food, cut flowers and herbs for the home with very little maintenance. Potagers can disguise their function of providing for a home in a wide array of forms - from the carefree style of the cottage garden to the formality of a knot garden.

It can be done better!



Cascading Style Sheets

RWD I1 Introduction to CSS - Line Lindhardt Egsgaard, lile@via.dk

Types of Cascading Style Sheets

Inline Styles

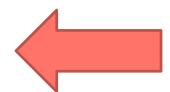
- Configured in the body of the Web page
- Use the style attribute of an HTML tag
- Apply only to the specific element



- Configured in the head section of a Web page.
- Use the HTML <style> element
- Apply to the entire Web page document

External Styles/Imported styles

- Configured in a separate text file with .css file extension
- The HTML /> element in the head section of a Web page associates it with the .css file



Inline Styles

- Nearly all HTML tags has attributes
 - One is style

```
White text on black background aligned to the
right
```

White text on black background aligned to the right

The font-family Property

- Not everyone has the same fonts installed on their computer
 - Configure a list of fonts and include a generic family name as the last fallback possibility

Font-family Category	Font Typeface
serif	Times New Roman, Georgia, Times
sans-serif	Arial, Verdana, Geneva
monospace	Courier New, Lucida Console
cursive	Brush Script M7, Comic Sans MS
fantasy	Jokerman, Curlz Mi

Here is some text

The font-size Property

Text Values	Em Units	Px Units	Pt Units	Percentage
xx-small	.5 em	10 px	6 pt	50%
x-small	.60 em	ll px	8 pt	60%
small	.75 em	13 px	10 pt	75%
medium	1 em	16 px	12 pt	100%
x-large	1.5 em	24 px	18 pt	150%
xx-large	2 em	28 px	24 pt	200%

Accessibility Recommendation:

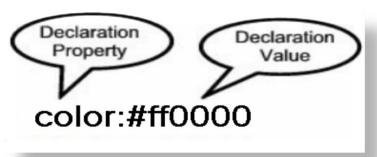
Use **em or percentage** font sizes – these can be easily enlarged in all browsers by users

Configuring Color with Inline css

- The Style Attribute
 - Value: one or more style declaration property and value pairs

color defines the text color

Example: configure red color text in an <h1> element:



<h1 style="color:#ff0000">Heading text is red</h1>

Heading text is red

Configuring Color with Inline CSS

Example 2: configure the red text in the heading configure a gray background in the heading

```
<h1 style="color:#FF0000; background-
color:#cccccc">This is displayed as a red heading
with gray background</h1>
```

This is displayed as a red heading with gray background

Separate style rule declarations with



Why external style sheets?

- All layout and formatting are separated from contents
 - Same CSS can be used for every page of the website (pages link to same .css-file).
 - The HTML files are exactly the same
 - No need to copy style code into each webpage
 - Changes to CSS automatically apply to the entire website

Types of Cascading Style Sheets

Inline Styles

- Configured in the body of a HTML document
- Use the style attribute of an HTML tag
- Apply only to the specific element

Embedded Styles

- Configured in the head section of a HTML document
- Use the HTML <style> element
- Apply to the entire Web page document

External Styles

- Configured in a separate text file with .css file extension
- The HTML /> element in the header section of a HTML document associates it with the .css file



CSS syntax

```
SELECTOR
    p {
        font-family: Arial;}
        DECLARATION
```

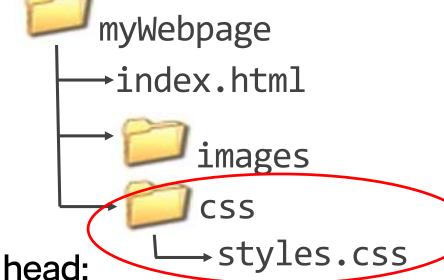
CSS syntax

Embedded Styles

```
<head>
  <title>Some page title</title>
  <style type="text/css">
    body {
      background-image: url("background.jpg");
      color: #FFFFFF;
    h1 {
      background-color: #ccccc;
      color: #FF0000;
  </style>
</head>
<body>
```

External Styles - Separate File

- Separate file(s) with the .css extension
- Often placed in dedicated subdirectory



Included in a HTML doc through a link in the head:

Inside the .css-file

```
* {
  font-size: 1.2em;
body {
  background-image: url("background.jpg");
  color: #FFFFFF;
h1 {
  background-color: #ccccc;
  color: #FF0000;
```

When to use CSS in the HTML document?



Only when a few extra rules should be implemented for one page!

Exercises

- CSS at <u>www.w3schools.com</u>
- Creating a .css-file in Brackets
- Todays Exercise:
 - Improve the Star Pizza webpage using CSS. The relevant files can be found on Studienet

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