HTML and CSS Basics

HTML Basic Tags, CSS Introduction







https://softuni.bg







SoftUni Team
Technical Trainers

Table of Contents



1. What is HTML

- HTML Page
- HTML Developer Elements
- 2. HTML Common Elements
 - Headings, Paragraphs, Hyperlinks, Images
 - Ordered and Unordered Lists
- 3. What is CSS
 - External, Internal and Inline CSS Style

Have a Question?



sli.do

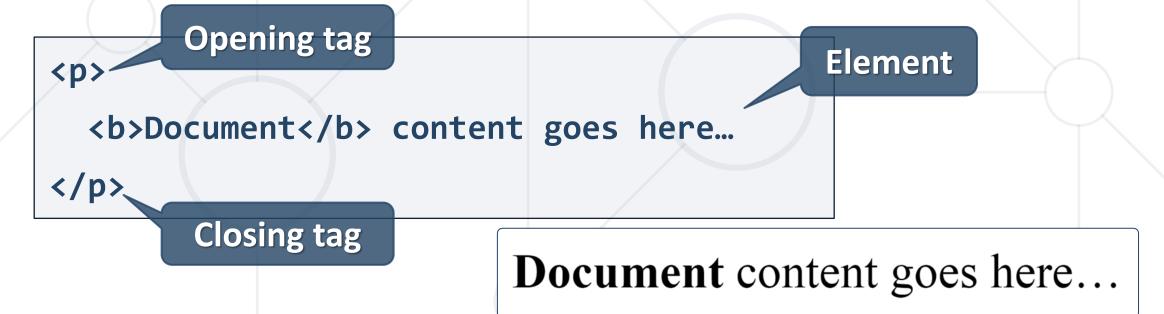
#fund-common



What is HTML?



- The HTML language describes Web content (Web pages)
 - Text with formatting, images, lists, hyperlinks, tables, forms, etc.
 - Uses tags to define elements in the Web page



HTML – Developer Environments



WebStorm

- Powerful IDE for HTML, CSS and JavaScript, paid product
- Visual Studio
 - Many languages and technologies, Windows & Mac
- Visual Studio Code, Brackets, NetBeans
 - Good free tools for HTML5, cross-platform

HTML Page – Example



```
<!DOCTYPE html>
                                       C Q example.html
<html>
  <head>
                                    Hello HTML!
    <meta charset="UTF-8">
    <title>HTML Example</title>
  </head>
  <body>
    <h1>Hello HTML!</h1>
  </body>
</html>
```

Problem: Welcome to HTML

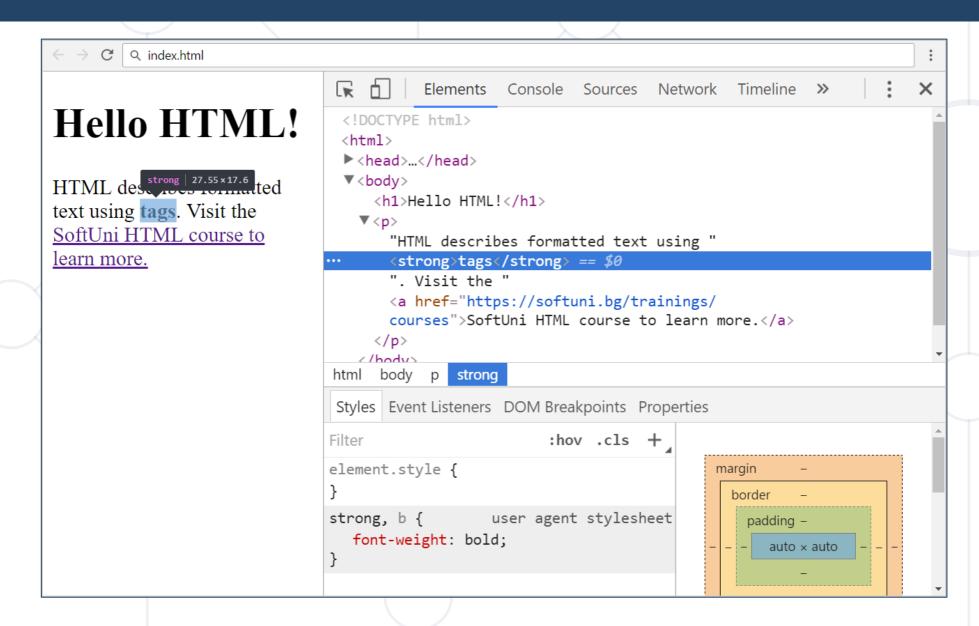


- Create your first HTML page
 - File name: welcome.html
 - Title: Welcome
 - Paragraph of text:
 - lam learning HTML and CSS!
- Hints:
 - Modify the code from the previous slide, use tag



Developer Tools: [F12] in the Browser



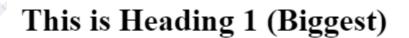


Headings



Headings: <h1> to <h6>

```
<h1>This is Heading 1 (Biggest)</h1>
<h2>This is Heading 2 (Smaller)</h2>
<h3>This is Heading 3 (Even Smaller)</h3>
<h4>This is Heading 4 (The smallest)</h4>
```



This is Heading 2 (Smaller)

This is Heading 3 (Even Smaller)

This is Heading 4 (The smallest)



Paragraphs



Paragraphs:

First paragraph
Second paragraph
Third paragraph

First paragraph

Second paragraph

Third paragraph



Hyperlinks



Abolute hyperlink

Specify the URL



```
<a href="https://softuni.bg">SoftUni</a>
```

HTML hyperlink

```
<h1 id="exercises">Exercises</h1>
...
See the <a href="#exercises" target="_blank">exercises</a>
```

Relative hyperlink

```
<a href="../2.%20HTML5-Overview.pptx">presentation</a>
```

Images



Images are external files, inserted through the tag

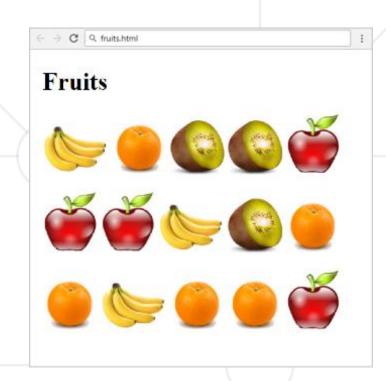




Problem: Fruits



- You are given 4 images files:
 - apple.png, banana.png, kiwi.png, orange.png
- Create a web page like the screenshot on the right
 - Use 3 paragraphs each holding 5 images



Ordered Lists



- Create an Ordered List
- Use
 - Each holding



Unordered Lists



- Create an Unordered List using <!ul><!-- The color of the color
 - Each holding

```
  First item
  Second item
  Third item
```

- First item
- Second item
- Third item

Problem: HTML Lists



Create a HTML page, holding nested lists, like the example:

- 1. List item 1
 - 1. Nested item 1.1
 - 2. Nested item 1.2
- 2. List item 2
 - 1. Nested item 2.1
 - 2. Nested item 2.2
 - Nested item 2.2.1
 - Nested item 2.2.2
 - Nested item 2.2.3
 - 3. Nested item 2.3
- 3. List item 3
 - Nested item 3.1
 - Nested item 3.2
 - Nested item 3.3

Solution: HTML Lists



```
1. List item 1
 List item 1
                              1. Nested item 1.1

                              2. Nested item 1.2
    Nested item 1.1
    Nested item 1.2
   <!-- TODO: put List item 2 and List item 3 here -
```

Solution: HTML Lists (2)



```
2. List item 2
List item 2
                                      1. Nested item 2.1
  2. Nested item 2.2
                                         • Nested item 2.2.1
    Nested item 2.1
                                         ■ Nested item 2.2.2
    Nested item 2.2
                                         Nested item 2.2.3
      <l
                                      3. Nested item 2.3
       Nested item 2.2.1
       <!-- TODO: put the next items here-
      Nested item 2.3
```

Solution: HTML Lists (3)



```
<1i>>
 List item 3
 <l
   Nested item 3.1
   <!-- TODO: put the next items here
```

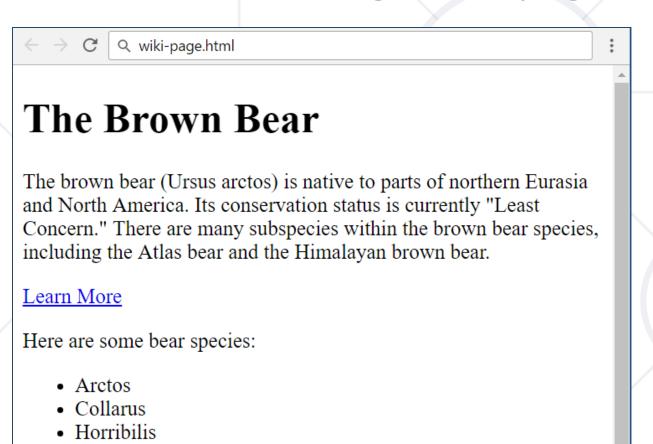
- 3. List item 3
 - Nested item 3.1
 - Nested item 3.2
 - Nested item 3.3

Problem: Wiki Page

• Nelsoni (extinct)



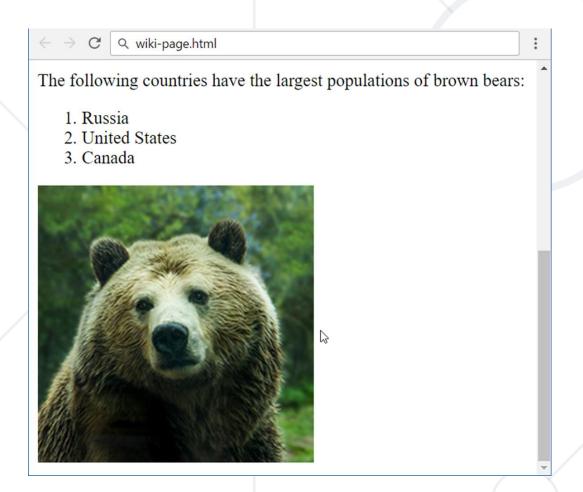
Create the following HTML page:



Problem: Wiki Page (2)



Create the following HTML page:





What is CSS?



- CSS defines styling of the HTML elements
 - Specifies fonts, colors, margins, sizes, positioning, floating, ...
 - CSS rules format: selector { prop1:val1; prop2:val2;

```
...}
```

CSS rule example:

```
Selector
```

Combining HTML and CSS Files (External Style)



```
using-css.html
<!DOCTYPE html>
<html>
  <head>
    k rel="stylesheet" type="te
xt/css" href="styles.css">
  </head>
  <body>
  </body>
</html>
```

```
/* CSS here */
```

Element Selector



Selects all elements with the specified element name

Style all headings:

```
h1 {
   text-align: center;
   color: #000;
}
```

• Adding more white space after each paragraph:

```
p {
    padding-bottom:
15px;
}
```



Class Selector



Uses the HTML class attribute, and is defined with a "."

```
.class {
  text-align: center;
}
```

```
<h2 class="class">...</h2>
```

Only one HTML tag can be specified to be affected by a class

```
p.right {
    text-align: right;
}
```

Id Selector



- The #id selector styles the element with the specified id
- Uses the id attribute of the HTML element

```
<h1 id="header">My Header</h1>
```

Defined with a "#" in the CSS

```
#header {
    border: 1px solid #CCC;
    border-width: 1px 0;
}
```

Internal Style Sheet



Put a <style> element in the HTML <head> section

```
<!DOCTYPE html>
<html>
<head>
  <style>
    .red {
      color:red;
  </style>
</head>
</html>
```

```
<body>
  This is red
</body>
```

```
This is red
```

Inline CSS Style



The style attribute in HTML elements



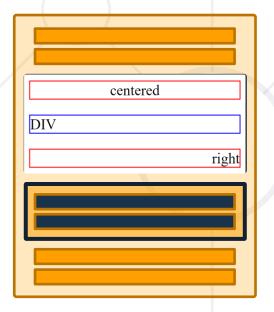
This is a blue
Heading

Block Elements



- <div> and are block elements (rectangles)
 - Fill the entire container width
 - Stack vertically one after another

display: block

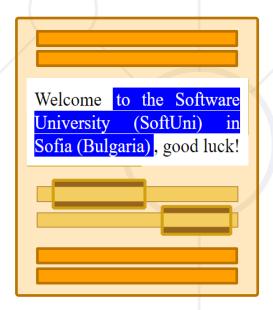


Inline Elements



- is an inline element
 - Its shape is not always rectangular
 - Can be split across multiple lines

display: inline



Inline-Block Elements



- Elements can be also inline-block
 - Rectangles arranged one after another
 - Just like words in a sentence

display: inline-block



Problem: Color Blocks



Use the following HTML and style it as the screenshot:

```
<div class="green">green block</div>
<div class="blue">blue block</div>
<div class="red">red block</div>
<div class="purple">purple block</div>
<div class="orange">orange block</div>
```

green block <mark>blue block red block purple block orange block</mark>

Solution: Color Blocks



```
div {
 display: inline-block;
.green {
  background-color: green;
.blue {
  background-color: blue;
<!-- Implement rest of the styles -->
```

Summary



- HTML describes structures content
 - Text, images, tables, figures, etc.
- CSS describes how HTML elements should be displayed
 - Styles may be: external, internal and inline





Questions?

















SoftUni Foundation



SoftUni Diamond Partners

























SUPERHOSTING.BG

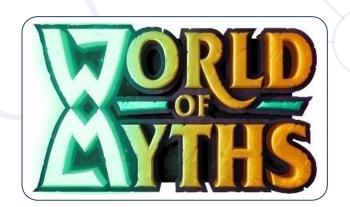
SoftUni Organizational Partners











License



- This course (slides, examples, demos, exercises, homework, documents, videos and other assets) is copyrighted content
- Unauthorized copy, reproduction or use is illegal
- © SoftUni https://softuni.org
- © Software University https://softuni.bg



Trainings @ Software University (SoftUni)



- Software University High-Quality Education,
 Profession and Job for Software Developers
 - softuni.bg, softuni.org
- Software University Foundation
 - softuni.foundation
- Software University @ Facebook
 - facebook.com/SoftwareUniversity
- Software University Forums
 - forum.softuni.bg







