HTML and CSS Basics

HTML Basic Tags, CSS Introduction



SoftUni Team Technical Trainers







Software University

https://softuni.bg

Have a Question?



sli.do

#fund-common

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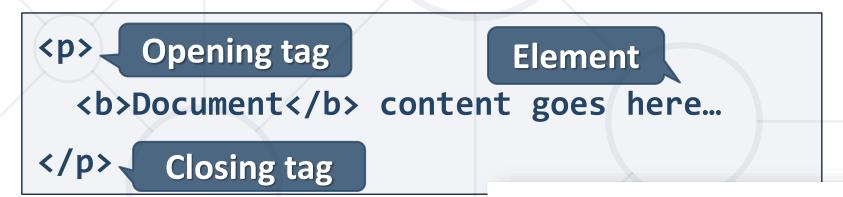




What is HTML?



- 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



Document content goes here...

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

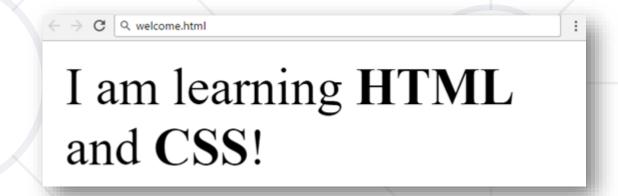


```
<!DOCTYPE html>
                                       C Q example.html
<html>
  <head>
                                    Hello HTML!
    <meta charset="UTF-8">
    <title>HTML Example</title>
  </head>
  <body>
    <h1>Hello HTML!</h1>
  </body>
</html>
```

Problem: Welcome to HTML

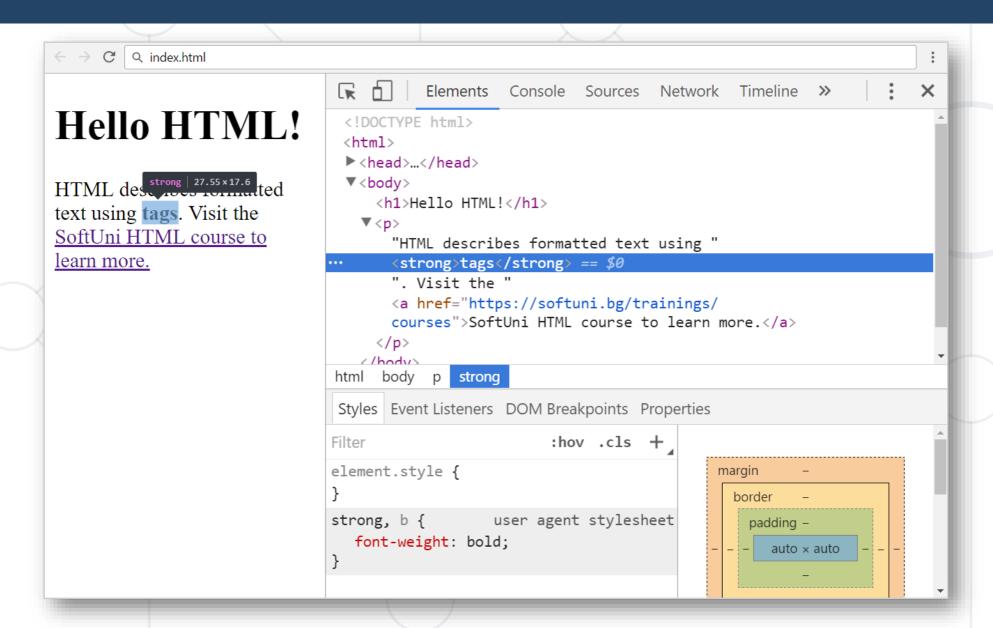


- Create your first HTML page
 - File name: welcome.html
 - Title: Welcome
 - Paragraph of text:
 I am learning HTML and CSS!
- Hints:
 - Modify the code from the previous slide, use tag



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 1 (Biggest)

This is Heading 2 (Smaller)

This is Heading 3 (Even Smaller)

This is Heading 4 (The smallest)

Paragraphs

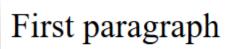


Paragraphs:

First paragraph

Second paragraph

Third paragraph



Second paragraph

Third paragraph



Hyperlinks



Absolute 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

presentation

Images



 Images are external files, inserted through the tag

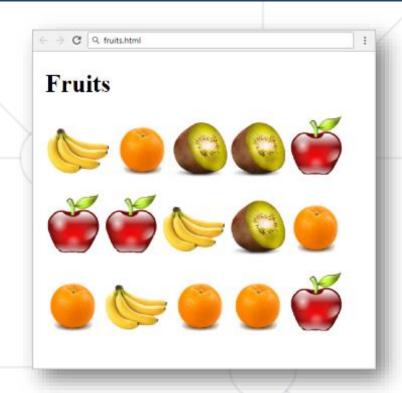




Problem: Fruits



- You are given 4 image 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



```
1. One
            2. Two
 <1i>One</1i>
            3. Three
 Two
 Three
```

Unordered Lists



- Create an Unordered List using
 - 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
   <01>
                                  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. 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

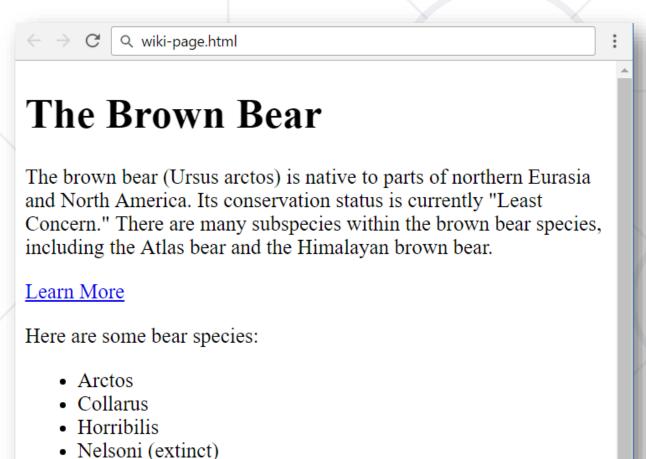


```
3. List item 3
                                     • Nested item 3.1
<
                                     • Nested item 3.2
  List item 3
                                     • Nested item 3.3
  <l
   Nested item 3.1
    <!-- TODO: put the next items here
```

Problem: Wiki Page



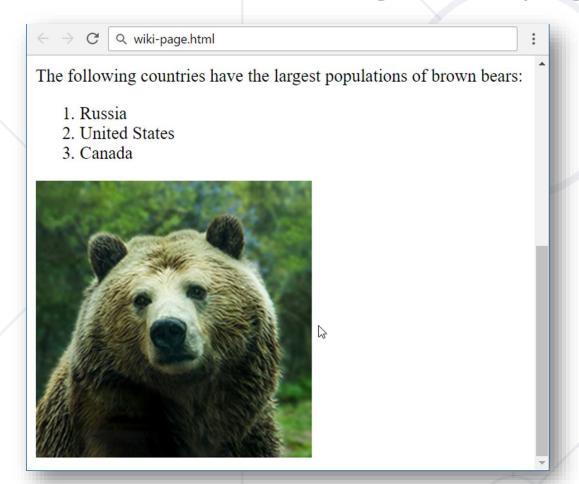
Create the following HTML page



Problem: Wiki Page



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

```
h1 { Selector

font-size: 42px;

color: yellow;
} Property Value
```

Declaration

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

Attribute "style"

<h1 style="color:blue">This is a blue heading</h1>

Property

C Q inline-style.html

Value

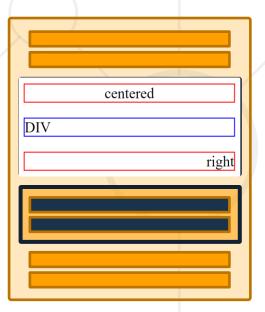
This is a blue Heading

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

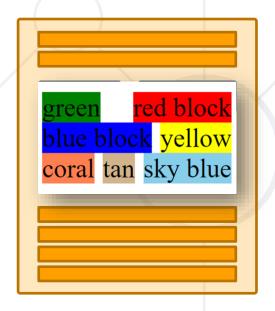


Inline-Block Elements



- 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 blue block red block purple block orange block

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?



















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