DOCENTE	Shadi Lahham
	Appendice
	Materiale trasversale
Argomento	Specificato nel titolo della slide successiva

Comments & Documentation

Appendix

Shadi Lahham - Web development

Comments

Comments are human-readable text ignored by the computer

Why comments are important

- Comments help you understand what you are coding
- They help other programmers understand your code
- They help you to remember what code that you wrote 3 months ago does

Documentation & comments in HTML

Required HTML elements

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>The mysterious orient</title>
  <meta name="description" content="An account of my travels in the east">
  <meta name="author" content="marco polo">
</head>

</html>

An HTML page must at least include the following:
Doctype, language, charset, title, description and author.
```

Required HTML elements

```html
<body>
  <!-- page content -->
  <div>meaningful content here</div>

  <!-- end of the body -->
  <script src="js/scripts.js"></script>
</body>

</html>
```

A comment must be included to indicate the end of the body before any scripts.
If there are many included scripts, add a comment for each to explain what they do.

HTML comments

```html
<!-- This is a single line comment -->

<!--
This is a comment
that spans multiple lines
-->

<!-- This is an example of a Closing Tag Comment -->

<div id="main-wrapper">
    ...
</div><!-- #main-wrapper -->
```

Comments in CSS

CSS comments example

```css
/**
 * icons.css
 *
 * Icons should convey in a simple way the concept of they represent.
 * When designing new icons remove complexities and follow the linear appearance of the set.
 */

.icon {
 font-family: 'family name';
 font-style: normal;
 text-transform: none !important; /* forces transform */
}

/* individual icons */
.icon-microchip:before {
 content: "\f2db";
}
```

Comments in Javascript

JS Comments

```javascript
// You can write single-line comments
let x = 4; // Or you can comment after a statement

/*
Or you can write multi-line comments, if you have something very long
to say like this gratuitously long description.
*/
```

JS Comments and documentation

Code, especially functions, should be well commented:

```
/*
 * Adds two numbers and returns the sum
 */
function addNumbers(num1, num2) {
    return num1 + num2;
}
```

JS Comments and documentation

Using JSDoc documentation standard is even better:

```
/**
 * Returns the sum of num1 and num2
 * @param {number} num1 - the first number
 * @param {number} num2 - the second number
 * @returns {number} Sum of num1 and num2
 */
function addNumbers(num1, num2) {
    return num1 + num2;
}
```

Use JSDoc: Documentation
JSDoc on github

JS File documentation

Each Javascript file header should be well commented:

```
/**
 * @file: filename.js
 * @author: author's name
 * Purpose of file
 *
 * Detailed explanation of what the file does
 * on multiple lines
 */
```

JS File documentation

Example:

```
/**
 * @file: math-demo.js
 * @author: james jones
 * A demonstration of Math functions
 *
 * This exercise file demonstrates some uses of the JavaScript Math Object
 * More examples at: https://www.w3schools.com/js/js_math.asp
 */

Math.round(4.7);    // returns 5
Math.round(4.4);    // returns 4
Math.pow(8, 2);     // returns 64
Math.abs(-4.7);     // returns 4.7
Math.ceil(4.4);     // returns 5
Math.floor(4.7);    // returns 4
```

Comments

- All the code that you write for this course <u>must be properly commented</u>
- Code without proper comments will be considered <u>incomplete</u>

Markdown

What is markdown

- A plain text formatting syntax aimed at making writing for the internet easier
- Plain text documents should be readable without tags
- There should still be ways to add text modifiers like lists, bold, italics, etc

Common usages

- In rich input fields on the web
  - e.g. forums, comments, etc
- In project documentation
  - most commonly as **readme.md**

Markdown features

- Easy to learn
- Fast to use
- Converts to HTML easily
- Flexible use
  - Project documentation
  - Rich user input in blogs, forums, comments
- Quite readable even as plain text

Markdown in action

```
An h1 header
============

Paragraphs are separated by a blank line.

2nd paragraph. *Italic*, **bold**, and `monospace`. Itemized lists
look like:

 * this one
 * the other one

> Block quotes are written like so.
```

Markdown in action

```
An h2 header
------------

Here's a numbered list:

1. first item
2. second item
3. third item

```javascript
// this is javascript code
function addNumbers(num1, num2) {
    let result = num1 + num2;
}
```
```

Documentation

- All exercises and projects that you submit for this course <u>must have proper documentation</u>
- Include a **readme.md** file in the root folder
- Projects without proper documentation will be considered <u>incomplete</u>

Further reading

Comments in source files

HTML style guide with coding standards and best practices

Commenting in HTML | Best Practices

Source Code Comment Styling: Tips and Best Practices

Further reading

JSDoc

[Commenting JavaScript code with JSDoc](#)

[An introduction to JSDoc](#)

[JSDoc](#)

Further reading

Readme

README.md: the ultimate guide

Markdown

Markdown - Basics

Markdown - Getting Started

Learn X markdown in Y minutes

Dillinger - Online markdown editor

© Copyright & Attribution

Unless otherwise stated, all materials are © 2017–2025 **Shadi Lahham**

For personal use only. May not be shared or reproduced without written permission
Brief excerpts may be used with proper attribution

External links and resources are copyrighted by their respective owners