Front-end course

A road to html, css and javascript
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Who am **I**?

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What is HTML?

HTML

Hypertext Markup Language, a standardized system for tagging text files to achieve font, colour, graphic, and hyperlink effects on World Wide Web pages.

Link: **History of Html**

HTML is a Markup Language

XML is another one!

```
<note>
        <to>Tove</to>
        <from>Jani</from>
        <heading>Reminder</heading>
        <body>Don't forget me this weekend!</body>
</note>
```

Let's Begin with HTML

```html
<html>
    <head>
        <title>Page Title</title>
    </head>

    <body>
        <h1>My First Heading</h1>
        <p>My first paragraph.</p>
    </body>
</html>
```

[Getting started with HTML](#)

Tags

<html>

<html></html>:
    The <html> element. This element wraps all the content on the page. It is sometimes known as the root element.

Attributes:
    Lang: Specifies the language of the element's content

Reference: [HTML Tag](#)

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Text Fundamentals

- h1
- h2
- h3
- h4
- h5
- h6
- p

More: [HTML text fundamentals](#)

Text Fundamentals

Lists

```
<ol>
    <li>1</li>
    <li>2</li>
    <li>3</li>
</ol>

        Ordered list
```

```
<ul>
    <li>Shoes</li>
    <li>Lunch</li>
    <li>Movie</li>
</ul>

        Unordered list
```

Heyperlink

<a>

You can Link to:
- Another document
- Images, Audio, Video, etc
- A part of html!

Link can be relative or absolute

More: Hyperlink

containers

div, span

div is a block-level element: space it gets is all the width

span is an inline-level element: space it gets is as the content

More: Div, Span

Metatags

```
<meta charset="utf-8">

<meta name="author" content="Woody Allen">

<meta name="description" content="some description">
```

Metatags

```
<meta property="og:title" content="We will rock you">

<meta name="twitter:title" content="Adele is not fat anymore">
```

Metatags

`<link rel="shortcut icon" href="favicon.ico" type="image/x-icon"`

`<link rel="stylesheet" href="my-css-file.css">`

`<script src="my-js-file.js" defer></script>`

More: [Metatags](#)

Forms

```html
<form action="/my-handling-form-page" method="post">
    <ul>
        <li>
            <label for="name">Name:</label>
            <input type="text" id="name" name="user_name">
        </li>
        <li>
            <label for="mail">E-mail:</label>
            <input type="email" id="mail" name="user_email">
        </li>
        <li>
            <label for="msg">Message:</label>
            <textarea id="msg" name="user_message"></textarea>
        </li>
    </ul>
</form>
```

Let's Dive into Browser

Git, Github

What is CSS?

CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.

Three ways to use it

- External CSS
- Internal CSS
- Inline CSS

Selectors

In CSS, selectors are patterns used to select the element(s) you want to style.

List of Selectors: Link

Properties

List of them can be found in below links:

https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Properties_Reference
https://www.w3schools.com/cssref/

Positions

The position property specifies the type of positioning method used for an element (static, relative, fixed, absolute or sticky).

https://www.w3schools.com/css/css_positioning.asp

Flexbox

The Flexible Box Module, usually referred to as flexbox, was designed as a one-dimensional layout model

https://css-tricks.com/snippets/css/a-guide-to-flexbox/
https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Flexbox
https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Flexible_Box_Layout/Basic_Concepts_of_Flexbox

Flexboxfroggy.com !

SCSS

Sass is a preprocessor scripting language that is interpreted or compiled into Cascading Style Sheets. SassScript is the scripting language itself. Sass consists of two syntaxes.

https://sass-lang.com/guide

Responsive Design

Responsive web design is an approach to web design that makes web pages render well on a variety of devices and window or screen sizes from minimum to maximum display size.

Using media queries in css:
https://www.w3schools.com/css/css_rwd_mediaqueries.asp

What is Javascript?

JS

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation.

Variables

JavaScript variables are containers for storing data values.

Variable Types

undefined : typeof instance === "undefined"
Boolean : typeof instance === "boolean"
Number : typeof instance === "number"
String : typeof instance === "string"
BigInt : typeof instance === "bigint"
Symbol : typeof instance === "symbol"

Links:
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Data_structures
http://javascript.info/types
https://javascript.info/primitives-methods

Conditions

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/Conditional_Operator

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/Conditional_Operator

Functions

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Functions
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Functions