

Basic HTML Web Page Structure

The Basics

Tags:

- `<tagStart some options>Data</tagend>`

Comments

- `<!-- Comment here can be multiline -->`

Validators

- [HTML5](#)
- [CSS3](#)
- JavaScript – Within the IDE will check syntax at least

Page Structure

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Index for example code snippets</title>
</head>

<body>
  <h1>Index</h1>
</body>

</html>
```

Page Structure - DOCTYPE

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Index for example code snippets</title>
</head>

<body>
  <h1>Index</h1>
</body>

</html>
```

The declaration is not an HTML tag. It is an "information" to the browser about what document type to expect.

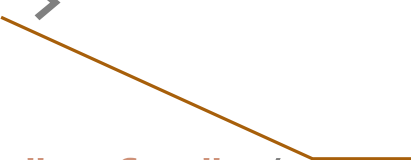
Page Structure – html tag

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Index for example code s
</head>

<body>
  <h1>Index</h1>
</body>

</html>
```

A diagram consisting of a brown line that originates from the 'en' attribute value in the <html lang="en"> tag and points diagonally down and to the right towards the <head> and <body> sections of the code, indicating that these sections are contained within the <html> tag.

The <html> tag represents the root of an HTML document.

The <html> tag is the container for all other HTML elements (except for the <!DOCTYPE> tag).

Note: You should always include the lang attribute inside the <html> tag, to declare the language of the Web page. This is meant to assist search engines and browsers.

Page Structure – head tag

```
<!DOCTYPE html>  
<html lang="en">
```

```
<head>  
  <meta charset="utf-8" />  
  <title>Index for example code s  
</head>
```

```
<body>  
  <h1>Index</h1>  
</body>
```

```
</html>
```

The <head> element is a container for metadata (data about data) and is placed between the <html> tag and the <body> tag.

Metadata is data about the HTML document. **Metadata is not displayed.**

Metadata typically define the document title, character set, styles, scripts, and other meta information.

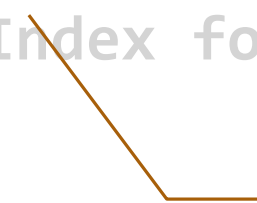
Page Structure – Head body

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Index for example code snippets</title>
</head>

<body>
  <h1>Index</h1>
</body>

</html>
```



The following elements can go inside the <head> element:

<title> (required in every HTML document)

<style>

<base>

<link>

<meta>

<script>

<noscript>

Page Structure – body tags

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Index for example code</title>
</head>

<body>
  <h1>Index</h1>
</body>

</html>
```



The <body> tag defines the document's body.

The <body> element contains all the contents of an HTML document, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

Note: There can only be one <body> element in an HTML document.

Page Structure

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Index for example code snippets</title>
</head>

<body>
  <h1>Index</h1>
</body>

</html>
```

This is the web page content, it is what gets rendered by your browser.

To Do

1. Modify your index.html page to have a link to a new page called “pageStructure.html”
See [a tag](#) for instruction on how to create a link
2. Create a new web page called “pageStructure.html”
3. Using only HTML tags **No CSS or JavaScript** explain all the tags that can be used in the header portion of a Web Page
4. Show usage of all the following tags:
h1, h2, h3, b, i, ol, ul, li
5. Investigate HTML5 Semantic elements – use them without CSS.
Explain what the term Semantic means
6. Ensure work is synced to GitHub and put your “Git Pages” link in your OneNote.