

HTML Lecture 1

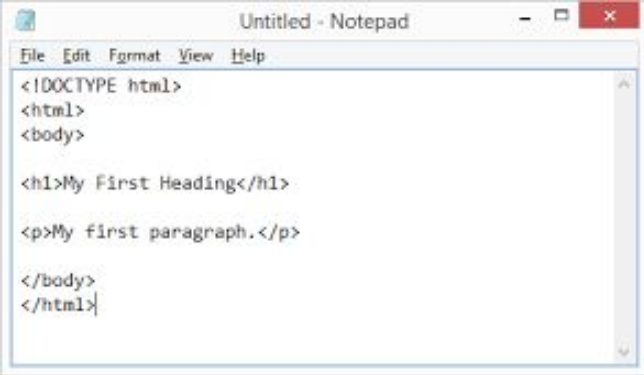
Code Girls 2020-21





What is HTML?

- Stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- Describes the structure of a Web page and tells the browser how to display the content
- Helps identify what is what. For example:
 - This is a link
 - This is a picture
 - This is a title



```
File Edit Format View Help
<!DOCTYPE html>
<html>
<body>

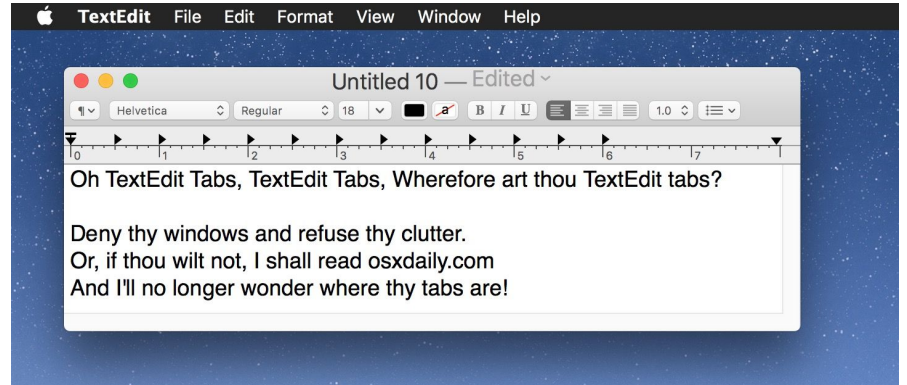
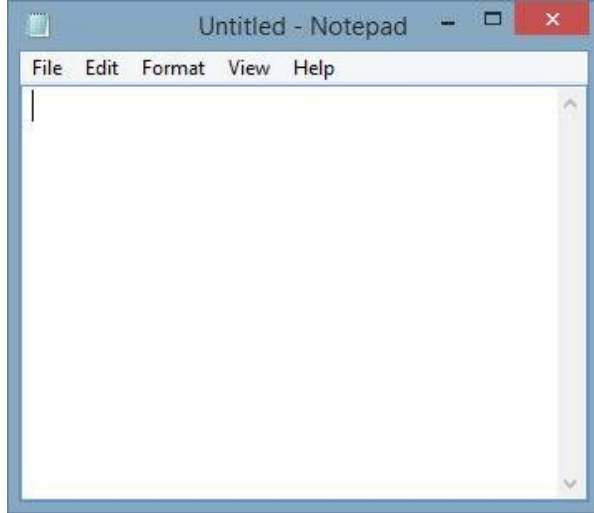
<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```

Writing in HTML: HTML Editors

- Web pages can be created and modified by using professional HTML editors.
- However, for learning HTML, we can start with a simple text editor like Notepad (PC) or TextEdit (Mac).





Getting our HTML editors set up

1. Find Notepad or TextEdit or Repl.it based on whether you have Mac or PC or chromebook
2. Write the following code in your text file

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

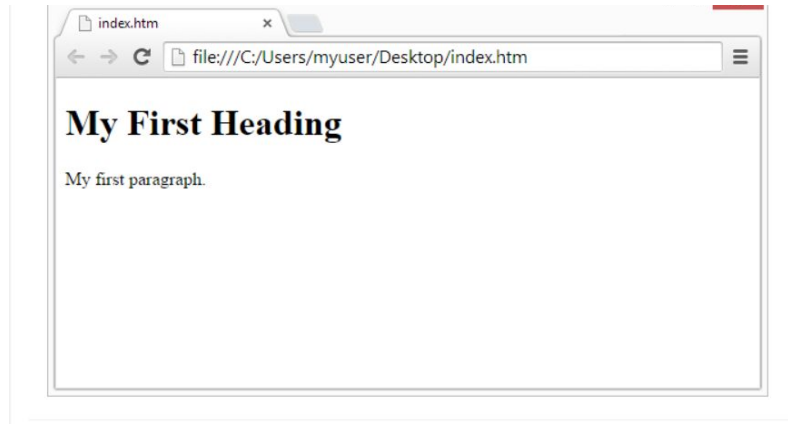
```
<p>My first paragraph.</p>
```

```
</body>
```

```
</html>
```

Getting our HTML editors set up (Cont.)

- Save the file on your computer. Select File > Save as in the Notepad menu.
- Name the file "index.htm" and set the encoding to UTF-8 (which is the preferred encoding for HTML files).
- Open the file with a browser (like Chrome)





The Basics of HTML

- All HTML documents must start with a document type declaration:
`<!DOCTYPE html>`.
- The HTML document itself begins with `<html>` and ends with `</html>`.
- The visible part of the HTML document is between `<body>` and `</body>`.

This is a
paragraph with a line break.



HTML Elements

- HTML elements are defined by a start tag, some content, and an end tag:
 - `<tagname>Content goes here... </tagname>`
- HTML elements can be nested
- When writing elements, case doesn't matter but lower case is preferable since other editors may be more strict
- Some elements only have a single tag:
 - Break in a line is just `
`
 - Example: `<p>This is a
 paragraph with a line break.</p>`



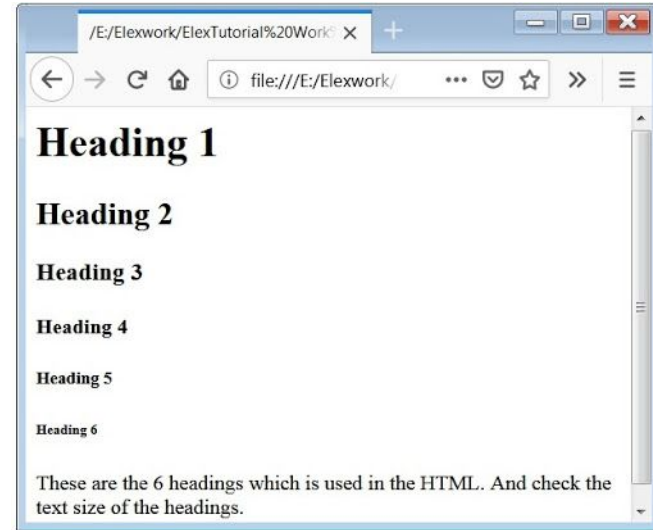
HTML Attributes

- All HTML elements can have attributes
- Attributes provide additional information about elements
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"



Headings, Paragraphs

- HTML headings are defined with the `<h1>` to `<h6>` tags.
- `<h1>` defines the most important heading.
`<h6>` defines the least important heading.
- Heading sizes are default. You can custom set the size
 - `<h1 style="font-size:60px;">Heading 1</h1>`
- HTML paragraphs are defined with the `<p>` tag
- If you want a line break use `<hr>`, which is similar to `
` as it has a single tag





Links and Images

- HTML links are defined with the `<a>` tag
 - ` This is a link`
- HTML images are defined with the `` tag. The source file (src), alternative text (alt), width, and height are provided as attributes:
 - ``



Style Attribute

- The HTML style attribute is used to add color, font, size, and more.
 - `<tagname style="property:value;">`
- Background color:
 - `background-color:[color name]`
- Text color:
 - `color:[color name]`
- Border color:
 - `border:[number]px [solid/dotted] [color name]`
- Text fonts:
 - `font-family:[font name]`
- Text size:
 - `font-size:[percent value]`
- Text alignment:
 - `text-align:[right/left/center]`

Example of Inline Style

First paragraph

Second paragraph



Text Formatting

- `` - Bold text
- `` - Important text
- `<i>` - Italic text
- `` - Emphasized text
- `<mark>` - Marked text (Highlighted)
- `<small>` - Smaller text
- `` - Deleted text (Strike through)
- `<ins>` - Inserted text (Underlined)
- `<sub>` - Subscript text
- `<sup>` - Superscript text
- `<q>` - Add quotation marks

***Don't forget the end tag!



Colors

LavenderBlush #FFF0F5	LightSalmon #FFDAB9	OliveDrab #8FBC8F	DarkSalmon #E9967A
LightPink #FFB6C1	LightCyan #ADD8E6	DarkCyan #008B8B	LightCyan #ADD8E6
Pink #FFC0CB	DarkSlateGray #2F4F4F	ForestGreen #228B22	DarkKhaki #A0D9B0
DeepPink #FF1493	CornflowerBlue #6495ED	Green #3CB371	SandyBrown #F4A460
HotPink #FF69B4	SteelBlue #4682B4	DarkGreen #006400	Coral #FF7F50
Thistle #D8BFD8	SpringGreen #90EE90	LightGreen #90EE90	Tomato #FF6347
Pink #FFC0CB	LightBlue #ADD8E6	LightGreen #90EE90	Gold #FFD700
Violet #EE82EE	RoyalBlue #4169E1	Chartreuse #7FFFD4	IndianRed #CD5C5C
Orchid #DDA0DD	MediumBlue #4682B4	Snow #FFFAFA	Peach #FFDAB9
DarkOrchid #65439D	Blue #1E90FF	Travy #FF7F50	Brown #A52A2A
DarkVioletRed #800000	Blue #1E90FF	Travy #FF7F50	Brown #A52A2A
MediumVioletRed #C71585	DarkBlue #00008B	PaleWhite #F5F5DC	Red #FF0000
Gold #FFD700	Red #FF0000	SeaShell #FFF5EE	Gold #FFD700
DarkMagenta #800080	MidnightBlue #191970	OldLace #F5F5DC	Chocolate #D2691E
DarkMagenta #800080	DeepSkyBlue #00BFFF	Linon #F0F0F0	DarkRed #8B0000
MediumSlateBlue #483D8B	DarkTurquoise #00CED1	MediumPurple #8A2BE2	DarkRed #8B0000
DarkOrchid #65439D	LightCyan #ADD8E6	LightCyan #ADD8E6	Yellow #FFD700
SlateBlue #6A5ACD	DarkCyan #008B8B	CornSilk #FFDAB9	Olive #808000
MediumSlateBlue #483D8B	Teal #008080	Beige #F5F5DC	Gold #FFD700
DarkSlateBlue #2F4F4F	Minicream #F5F5DC	AntiqueWhite #F0E68C	Orange #FF8C00
MediumSlateBlue #483D8B	MediumPurple #8A2BE2	PlatinumWhite #F0F0F0	DarkOrange #FF8C00
Purple #800080	MediumAquamarine #7FFFD4	LightGoldenrodYellow #FFD700	OrangeRed #FF4500
BlueViolet #6A5ACD	MediumTurquoise #483D8B	LemonChiffon #FFFACD	Red #FF0000
DarkViolet #800080	Turquoise #40E0D0	BlanchedAlmond #FFDAB9	DarkRed #8B0000
Indigo #4B0082	MediumSeaGreen #3CB371	LightCyan #ADD8E6	Maroon #800000
CherryWhite #F8BBD0	White #FFFFFF	White #FFFFFF	White #FFFFFF
AliceBlue #F0F8FF	LightSeaGreen #4682B4	Moccasin #F5DEB3	WhiteSmoke #F5F5F5
Azure #66B3FF	MediumSpringGreen #48FFC0	White #FFFFFF	SandBrown #D2B48C
LightCyan #ADD8E6	SpringGreen #90EE90	RapeseedGreen #B0E066	LightGrey #D3D3D3
DarkTurquoise #00CED1	HotYellow #FFD700	DarkGreen #006400	DarkGrey #696969
ForestGreen #228B22	LightGreen #90EE90	Khaki #F0E68C	Gray #808080
LightBlue #ADD8E6	DarkSeaGreen #4682B4	Tan #D2B48C	DimGray #696969
LightSlateBlue #483D8B	LightGreen #90EE90	BurlyWood #DEB887	Black #000000
LightSlateBlue #483D8B	LightGreen #90EE90	LightCoral #F08080	
DarkBlue #00008B	GreenYellow #9ACD32	LightSlateBlue #483D8B	
DarkBlue #00008B	GreenYellow #9ACD32	LightSlateBlue #483D8B	

- In addition to using color names, you can use different methods of specifying colors:

- RGB values
 - `rgb(red, green, blue)`
 - value between 0 and 255.
- HEX values
 - `#rrggbb`
 - Value between 00 and ff
- HSL values
 - `hsl(hue, saturation, lightness)`
 - Hue: 0 to 360. Saturation: 0-100%. Lightness: 0=100%
- And others



Commenting!

- Comment your code!!!
 - Helps identify errors
 - When you return to your project or share it with others, they know what you have done
- Syntax `<!-- [Comment goes here] -->`



Acknowledgments

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- Ms. Lola Piper for sponsoring our club and guidance