



Logols Learning

WEEKEND WEB DEVELOPMENT BOOT CAMP

TRAINING: CSS

What is CSS?

- ▶ HTML provides the definition of the page
- ▶ CSS provides the styling for the page
- ▶ It's best to keep these separate
- ▶ Cascading Style Sheets
- ▶ If multiple styles applied, styles will override based on the hierarchy

Inline Styling

- ▶ Can style inside an element using the style attribute
- ▶ This overrides all other styling
- ▶ Style Attribute is a global attribute
- ▶ Can be used on any html element
- ▶ style="[Style Name1]: [Value]; [Style Name2]: [Value];"

Example:

```

```

In Page Styling

- ▶ It's best to separate your elements from the style
- ▶ You can also style in the page
- ▶ Use style element within the head element
- ▶ Surround styles in a comment

Example:

```
<head>
  <style>
    <!--
      .logo {
        height:100px;
        width:100px;
      }
    -->
  </style>
</head>
```

...

```

```

Linking a CSS File

- ▶ It's best to style outside of the html file altogether in a .css file
- ▶ To link use the link element inside the head
 - ▶ Attributes:
 - ▶ rel - stylesheet
 - ▶ href – location of css file
 - ▶ type – text/css

Example:

```
<head>  
  <link rel="stylesheet" href="/styles/site.css" type="text/css" />  
</head>
```


Selectors

- ▶ Used to select elements for styling
- ▶ Sample below

Name	Syntax	Example
ID	# [Element ID]	#PersonTable
Class	.[Class Name]	.highlightTable
All Elements	*	*
Element	[Element]	p
Element in Element	[Element] [Element]	div p
Multiple Elements	[Element], [Element]	div, p
Element direct child	[Element] > [Element]	div > p

Comments

- ▶ Comments should be surrounded by `/* */`

Single line Example:

```
/* this is a comment*/
```

Multiple Line Example:

```
/*
```

This is also
a comment

```
*/
```

Colors

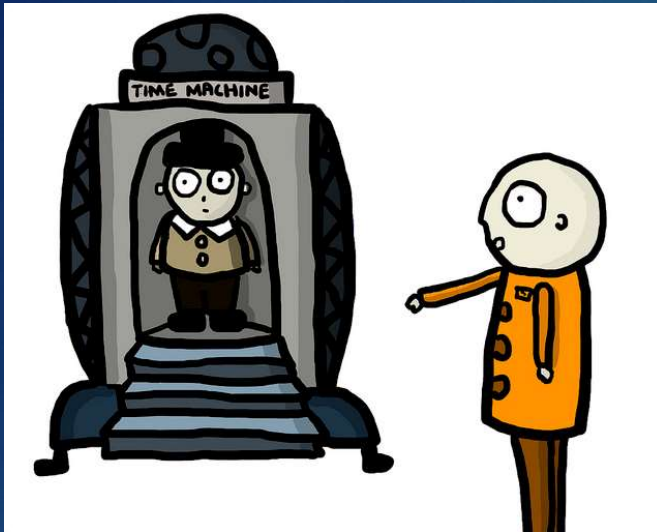


- ▶ Uses: font, background, border
 - ▶ `color: red;`
 - ▶ `background-color: red;`
 - ▶ `border-color: red;`
- ▶ Multiple ways to specify colors:
 - ▶ Color Name
 - ▶ RGB
 - ▶ Hex

Example:
`color: red;`
`color: #00ff00;`
`color: rgb(0,0,255);`

Text

- ▶ color - Example: `color: red;`
- ▶ text-align – Example: `text-align: center;`
- ▶ text-decoration – Example: `text-decoration: underline;`
- ▶ text-transform – Example: `text-transform: lowercase;`
- ▶ letter-spacing – Example: `letter-spacing: 5px;`
- ▶ text-indentation – Example: `text-indent: 25px;`
- ▶ line-height – Example: `line-height: 1;`
- ▶ word-spacing – Example: `word-spacing: 10px;`
- ▶ text-shadow – Example: `5px 5px red;`
- ▶ Direction – Example: `direction: rtl;`

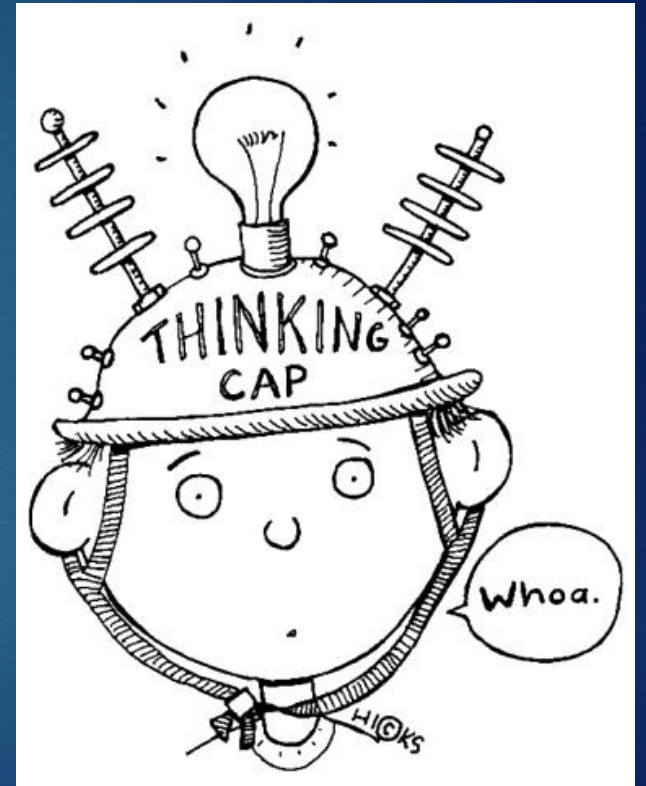


EXAMPLE

LINKING, SELECTORS, COLORS, TEXT, COMMENTS

ASSESSMENT

LINKING, SELECTORS, COLORS, TEXT, COMMENTS

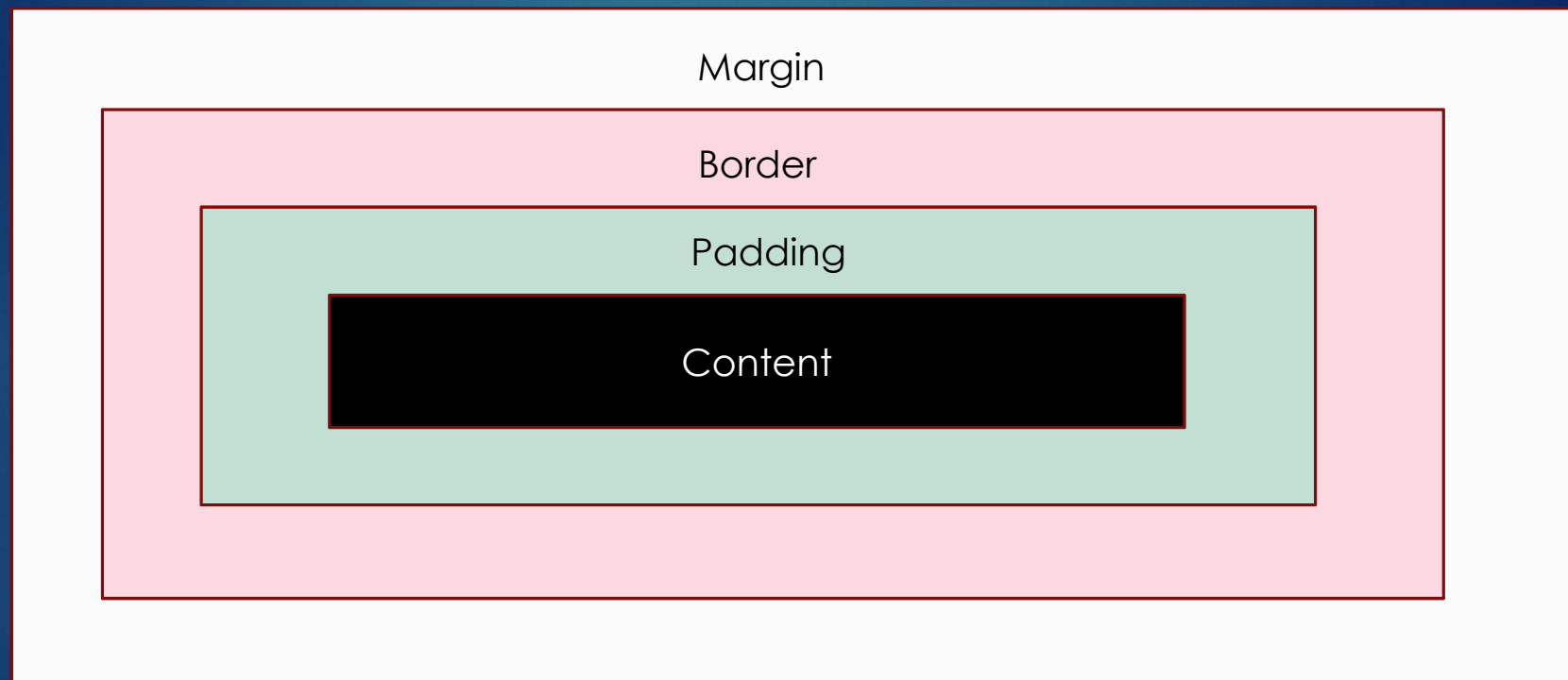


Assignment

- ▶ Style the Status Report Interface.
- ▶ Center the header text using an id selector.
- ▶ Modify the paragraph text to be dark grey using a class selector.
- ▶ Modify the table header to be light grey using the element selector.



Box Model



CSS Length Unit of Measures

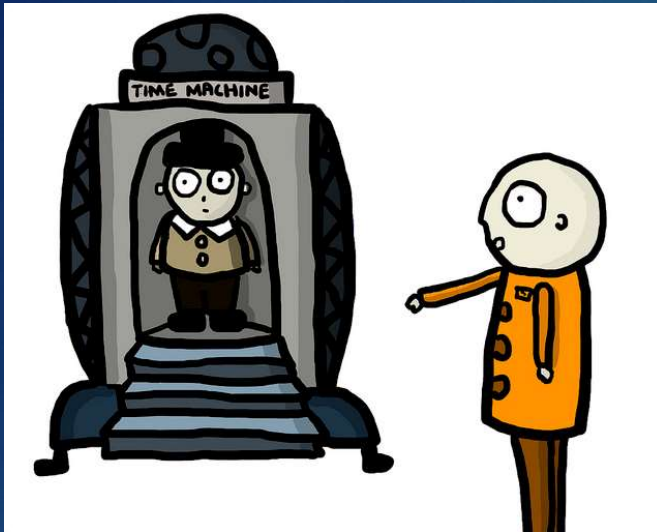
Absolute Lengths

- ▶ **px (pixels 1px = 1/96th of 1in)**
- ▶ cm (centimeters 1cm = 37.8px)
- ▶ mm (millimeters 1mm = 3.78px)
- ▶ in (inches 1in = 96px = 2.54cm)
- ▶ pt (points 1pt = 1/72 of 1 in)
- ▶ pc (picas 1pc = 12pt)

Relative Lengths

- ▶ **em (font-size of element)**
- ▶ **rem (font-size of root)**
- ▶ **% (parent element)**
- ▶ vw (1% width of viewport)
- ▶ vh (1% height of viewport)

*viewport – visible area of a web page



EXAMPLE

BOX MODEL

Display

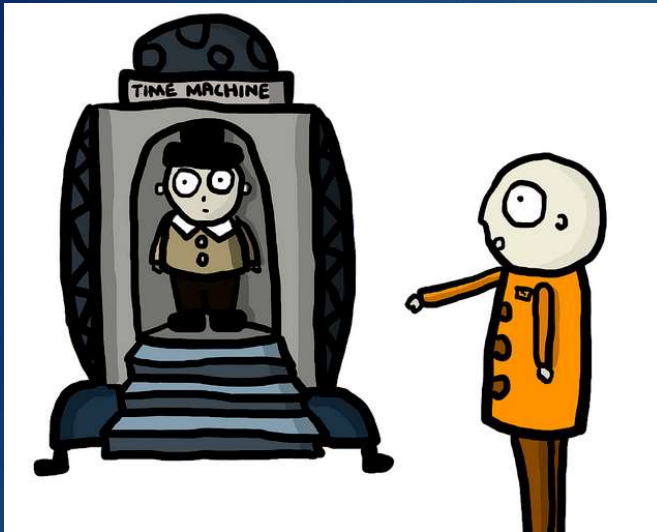
- ▶ Options:
 - ▶ inline
 - ▶ block
 - ▶ flex
 - ▶ inline-block
 - ▶ inline-flex
 - ▶ table
 - ▶ none
 - ▶ etc...
- ▶ Display:none vs. Visibility
- ▶ Display Examples:
<https://css-tricks.com/almanac/properties/d/display/>
- ▶ Flexbox Examples:
<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

Position

- ▶ Options:
 - ▶ static
 - ▶ relative
 - ▶ fixed
 - ▶ absolute
- ▶ Examples: <http://learnlayout.com/position.html>

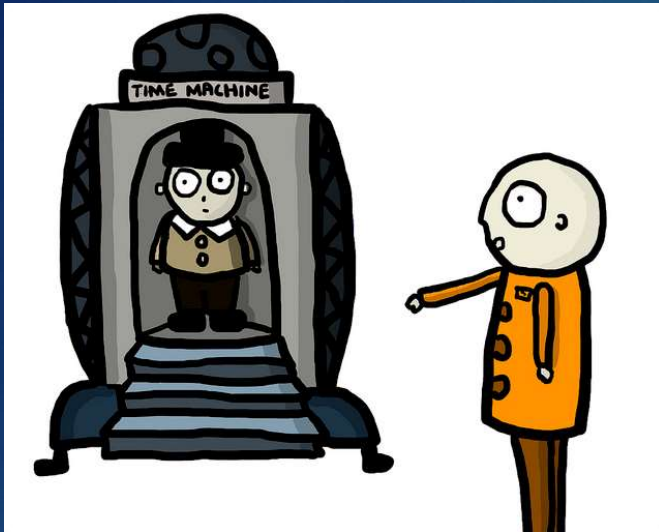
Float

- ▶ float
 - ▶ none
 - ▶ left
 - ▶ right
 - ▶ initial
 - ▶ inherit
- ▶ clear
 - ▶ Same +both
- ▶ Example: <https://css-tricks.com/all-about-floats/>
- ▶ overflow
 - ▶ visible
 - ▶ hidden
 - ▶ scroll
 - ▶ auto
 - ▶ initial
 - ▶ Inherit
- ▶ Example: <https://css-tricks.com/almanac/properties/o/overflow/>



EXAMPLE

DISPLAY, POSITION, FLOAT



EXAMPLE

FLEXBOX - [HTTPS://FLEXBOXFROGGY.COM/](https://flexboxfroggy.com/)

Assignment

- ▶ Style the report so the image is to the right of the data table using floats.
- ▶ Then do it using flexbox



Pseudo-Class

- ▶ Allow to set style of element in certain states.
- ▶ Examples of Pseudo-Classes:
 - ▶ a:active
 - ▶ a:hover
 - ▶ a:link
 - ▶ a:visited
 - ▶ input:checked
 - ▶ input:disabled
 - ▶ input:enabled
 - ▶ input:focus
 - ▶ input:invalid
 - ▶ input:valid

Where is my style?

- ▶ Importance
 - ▶ Add !important to the end of a property
 - ▶ Wins over all other rules (not recommended)
- ▶ Specificity
 - ▶ Measured using 4 values
 - ▶ Thousands – inside style element or style attribute
 - ▶ Hundreds – one for each ID selector
 - ▶ Tens – one for each class selector, attribute selector, or pseudo-class
 - ▶ Ones – one for each element selector or pseudo-element
- ▶ Source Order
 - ▶ Later rule wins if everything else is the same

Page Layouts

- ▶ Options:
 - ▶ Tables
 - ▶ Float
 - ▶ CSS Framework
 - ▶ Flexbox
 - ▶ CSS Grid
- ▶ Example:
<https://www.codementor.io/codementorteam/4-different-html-css-layout-techniques-to-create-a-site-85i9t1x34>
- ▶ Bootstrap Templates:
https://www.w3schools.com/bootstrap/bootstrap_templates.asp
- ▶ Scroll Template:
https://www.w3schools.com/bootstrap/bootstrap_theme_company.asp

Responsive

- ▶ Designing to work on any monitor size or device
- ▶ Use a Grid System – Bootstrap / CSS Grid
- ▶ Use Media Queries
- ▶ Use Vector Graphics or Alternate Images
- ▶ Use a Framework like Bootstrap

ASSESSMENT

BOX MODEL, DISPLAY, POSITION, FLOAT, RESPONSIVE



Assignment

- ▶ Center everything under the header using flexbox;
- ▶ Play around with width, margins, and padding to change the looks.



QUICK REVIEW

CSS



Not really a sign you'd want to see whilst driving through an eerily quiet neighbourhood...

Additional Resources

- ▶ JSFiddle

- ▶ <https://jsfiddle.net/>

- ▶ free Code Camp

- ▶ <https://www.freecodecamp.org/>

- ▶ Can I Use

- ▶ <https://caniuse.com/>