Basic HTML Sprint 0

Anatomy of an HTML Document

Headings

Used for titles of sections and subsections:

- Use a single <h1></h1> element for the main heading of a web page
- Use <h2></h2> for the main sections of the page, <h3></h3> for subsections, and so on
- Don't skip any levels:

Other Elements

Lists

Used for representing collections of elements.

List related tags:

<!--ul--><!--/ul--><!--!</th--><th>unordered lists</th>	unordered lists
	ordered lists
	list items

Markup example:

```
First itemSecond item
```

Basic CSS Margins and Padding

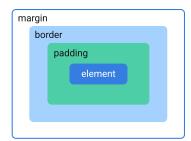
Dimensions

Used for font sizes and an element's height, width, margins, and padding.

рх	Specifies an element's dimension explicitly in pixels
%	Specifies an element's dimension as a percentage of its parent's width
VW	Specifies an element's dimension as a percentage of viewport width
vh	Specifies an element's dimension as a percentage of viewport height

The Box Model

- Each HTML element (shown in blue) is wrapped in a box of padding
- The padding is wrapped by borders
- The border is wrapped by margins



Margins and Padding

margin: auto;	Determines margins automatically (default)
margin: 0;	Sets all margins to 0. Useful for resetting default styles
margin: 20px;	Sets margin of 20px on all sides
margin: 10px 20px;	Sets top/bottom margins to 10px and left/right margins to 20px
margin-top: 20px;	Sets margin of 20px on top of element. Similarly, you can use margin-right, margin-bottom, and margin-left
margin: 10px 20px 30px 40px;	Sets margins to top, right, bottom, and left, respectively

Note: The syntax for padding is the same, except there is no padding: auto

Borders

border-color: #000;	Sets border color to black
border-width: 1px;	Sets border width to 1px
border-style: solid;	Options include solid, dashed, dotted, and double
border: #000 1px solid;	Shorthand syntax

Basic CSS Typography

Typographic Styles

Font Properties:

font-size	Controls font size. Typically specified using pixels
font-weight	Controls boldness. Specified using pixels or numbers, e.g. font-weight: 500
font-family	Specifies the font family, plus fallbacks, e.g. font-family: Arial, sans-serif
font-style	For italicized text, use font-style: italic; default: normal

Text Properties:

text-align	Options include left, right, and center; default: center
text-decoration	Options include none and underline; default: none
text-transform	Options include capitalize, uppercase, and lowercase; default: none

Line Height and Letter Spacing:

line-height	Controls spacing between lines of text. Specified either using pixels or a number. If a number is used, it is multiplied by the element's font-size. Defaults to 1.0	
letter-spacing	Controls horizontal spacing between text characters. Usually specified using pixels. Defaults to normal	

Basic CSS Colors and Backgrounds

Sprint 0

Representing Colors

Hexadecimal:

black: #000000

white: #FFFFF

• green: #00FF00

RGB (red, green, blue):

• black: rgb(0, 0, 0)

• white: rgb(255, 255, 255)

• green: rgb(0, 255, 0)

Note: These values are not case sensitive.

RGBA (red, green, blue, alpha):

- Like RGB, but adds a fourth parameter, alpha, that controls the opacity of the colors
- θ <= alpha <= 1, with θ representing complete translucence and 1 representing complete opacity

Example: rgba(0, 255, 0, 0.5)

Background

background-color - sets an element's background color

background-image: url(path/to/image) - sets a background image for the element

- Use this for images that are only decorative
- For informative images, use an tag with an appropriate alt description

background-size - controls the size of a background image

- Keyword options include contain and cover
- Can be specified using percentages, e.g. background-size: 30%
- Can be specified using pixels, e.g. background-size: 200px 100px

background-position - controls the position of a background image within an element

- Keyword options include top, left and center
- Can also be specified using pixels or percentages

background-repeat - controls whether a background image repeats

• Options include repeat and no-repeat