# **HTML**

## XHTML vs. HTML

* Understand the main differences between the two
* What is mandatory in XHTML that isn't in HTML

## Html Layout (doctype - html - head - body)

* Order of a basic html structure
* what content should go into which part of this layout

## Head tags (meta - title - base - style - link - script)

* Understand which parts of the webpage should be included in the head tag instead of the body tag

## Meta tags (name=[viewport, description, etc...], content=...)

* What are the different names you can define?
* How do meta tags affect the webpage
* Where do you define the meta tags?

## Character Sets

* ASCII
* ANSI
* 8859
* UTF-8

## Viewports (vw)

* Understand how to use and implement the viewport meta
* Understand the scaling of 'vw' measurements relative to html pages

## Audio & Video (sources, basic audio/video file formats)

* How to define audio tracks and videos
* use different sources and understand fallbacks
* different file formats for video and audio files

## Links (relative vs. absolute)

* How to navigate a file structure
* the difference between a relative link and absolute link
* using external links from other websites

## Linking js (<script src="..."></script>)

* Where do you link an external js script?
* How do you link js scripts?

## Linking css (<link rel="..." href="..."/>)

* Understand the rel attribute and what value should be associated with stylesheets
* how to link to a css file
* where in the html document do you link your css file?

## Block vs. Inline level elements

* What is a block element
* What is an inline element
* Know some tags that are block and inline

## Tables

* Setting table styles
* Table alignment
* Responsive Tables

# **CSS**

## CSS Syntax (selector, descriptor, value, attribute)

* Different types of selectors
* Which two parts make up a descriptor?
* what defines a value
* what defines an attribute

## CSS Combinators (‘ ’, '>', '+', '~', '[attr]', '[attr=val]')

* How to use different combinators to select elements

## Colors

* HEX/RGB/HSL/Pre-defined
* Basic understanding of how each work (emphasis on HEX/RGB)

## Fonts

* Web safe fonts (generic font families)
* Font fallbacks
* Font sizing

## Pseudo-class (:)

* How do Pseudo-classes modify an element
* When to use a Pseudo-class

## Pseudo-elements (::)

* How to Pseudo-Elements modify an element
* When to use Pseudo-Elements

## Display (inline/inline block/block)

* Differences between display inline, inline-block and block

## media queries (@media)

* Why would you define media queries?
* Where do you define media queries?
* Understand how to use media queries based off the screen dimensions
* understand min and max screen widths

## Shorthand Properties

* What is the purpose of using shorthand properties in css
* How does the element get affected if you include 1, 2, 3, or 4 values?

## Box Model

* How do you calculate the real width and height of an element
* What does ‘box-sizing: border-box;’ do in css?
* Margin
* Padding
* Borders

## Margins and Padding

* Understand the difference between margin and padding and the each has on elements

## Borders and Outlines

* Know the main difference between borders and outlines
* Which of these two are used when calculating an elements ‘true’ size?
* Can outlines overlap each other?