

Part 1 – Theory: CSS Concepts

Instructions: Write your answers directly in the Google Doc under each question. Use complete sentences where possible.

1. What is CSS and why do we use it?

CSS is Cascading Style Sheet. It is what gives a webpage its style. All colors, element positioning, and sizing all will be interchangeable in the css file.

**2. What is the difference between an HTML element, a class selector, and an ID selector? Give an example of each from the live demo.*

HTML elements are used to structure the page. They are located in the .html file. Class selectors can be placed in html tags under the class attribute. It will style the element and can be reused for any other element needed. ID selectors are the same as class selectors however they are unique and will only ever be used once per .html page.

3. Explain the difference between inline styles, internal CSS, and external CSS. Which one are we using in our demo and why?

External CSS can be linked to any html file any amount of time through the link tag. It normally one single page however it can be split into multiple files for readability & modularity. Internal css is defined in the style tag of the html page and is only used once for that html file only as it only relates to that file specifically. Inline styles is where the style attribute is written within the html tag. It should only be used as a quick fix to override other styles that may be within your external css file. If used enough it will be seen as dirty and hard to read or maintain. It should really only be used if a library such as tails requires it to function or something needs to be overridden due to a bug in the development process since it does not have the ability to style with pseudo elements such as hover:.

**4. In the CSS rule below, identify the selector, property, and value:*

```
.first-article {  
  background-color: purple;  
}
```

Selector: first-article
Property: Background
Value: purple

5. What does `border-radius: 20px;` do to an element?

Gives the border a circular radius of 20px.

6. Why do we use the `font-family` property? What happens if the browser doesn't have the first font listed?

Its used so a font can be selected by the browser. If the browser does not have the font it will pick the next font on the list and go down the line until it finds one. It is often a good idea to start with system default fonts for this reason.

7. Explain what happens if two CSS rules target the same element with different styles (CSS specificity).

Both get added as if they were in the same selector. An extension called highlight duplicate can be used in visual code studio to highlight the side next to the numbers when duplicates are found.

**8. Look at this HTML snippet from the demo and explain what will be styled by `.second-h2` in the CSS file:*

```
<div class="second-article">  
  <h2 class="second-h2">I am another div</h2>  
</div>
```

Red h2 lettering
