After finishing this homework, you should know:

- how to add an external stylesheet to an HTML file
- · Text formatting with CSS
  - color, font-family, font-size, font-style, font-weight, vertical-alighn
- how to style a tag (e.g. apply a style to body, h1, p)
- how to style a specific group (class) of tags (e.g. tr.highlight)
- how to style a specific tag identified by ID

# Write down your answers on a bond paper and submit on Tuesday, August 8

This homework will take approximately 30-60 minutes. You can test your code on your computer using Visual Studio Code and Edge/Chrome/Firefox. You get +30% credit if you upload your code to Github.com and configure GitHub pages on your project.

#### **Preliminaries**

Extra Credit: Create a new GitHub project named "homework3". Create an HTML file named "index.html". Configure the project to use GitHub Pages.

HINT: To setup a new Github project and configure it to use Github Pages, follow https://github.com/JBRC-ph/EmpowermentTechnologies/blob/master/github-pages-howto.md

Put the following HTML code into index.html. If you recall this is similar to exercises 1, 2 and 5 of Homework 2

ur dui nec scelerisque. Aenean id elit et dui aliquet rhoncus. Nam elementum, lectus non varius viverra, tortor nulla tristique nulla, non tristique massa odio efficitur mauris. Ut sollicitudin erat nec interdum maximus. Praesent sodales arcu in massa var ius, vehicula molestie eros tempus. Mauris dignissim molestie felis id gravida.

```
<!-- Second paragraph -->
```

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```
<!-- Third paragraph -->
```

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```
Superhero
 Civil War
 Infinity War
 Captain America
 Yes
 Yes
 Iron Man
 Yes
 Yes
 Hulk
 No
 Yes
```

```
</body>
</html>
```

Save the file and open it on your browser.

## **Getting Started with Styling HTML**

Add an external stylesheet to the HTML above:

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

Question 1: Where should you put the code - before or after the tag?

After adding the external stylesheet, reload index.html on your browser. Do NOT yet create style.css.

Question 2: Were there any changes in the layout or look of index.html?

Change the tag in the HTML to:

```
<body style="background: #A0A0A0;">
```

then reload index.html in the browser. Congratulations! You just added an inline stylesheet.

Reload the page in the browser. What changed?

Remove the style attribute from the body tag:

```
<body>
```

Put the style in style.css:

```
body {
  background: #A0A0A0;
}
```

You've just styled index.html with an external stylesheet.

Question 3: There are three ways to incorporate CSS into HTML. In this exercise, you did two: (1) use inline

styling, and (2) use an external stylesheet. What is the third way?

Question 4: Describe the advantages and disadvantages of using inline styling.

Question 5: Describe the advantages and disadvantages of using an external stylesheet.

#### **HTML Colors**

Change the background color to #B0C4DE.

Question 6: What is the HTML color name for #B0C4DE?

Question 7: In #B0C4DE, which two characters stand for the red component of the RGB color? Which two characters stand for green? For blue?

Question 8: Try experimenting with the color value. As the background color values for red, green and blue approach FF, what happens to the color - does it become lighter or darker? As the color values approach 00, does the color become ligher or darker?

Modify style.css to change the background color back to white.

### **CSS Class Selectors**

In the previous sections you learned how to add a style to all instances of an HTML tag by adding a background style to the body tag. There is only one body tag in the HTML document, but the same principle applies to other HTML tags like p.

Add the following to style.css to change the text font in index.html:

```
p {
  font-family: sans-serif;
}
```

Save style.css and reload index.html in the browser.

Question 9: What changed in the page?

Change <code>index.html</code> and <code>style.css</code> so that only the three Lorem Ipsum paragraphs get the sans-serif font styling. These are the

tags preceded by the HTML comments "First paragraph", "Second paragraph", and "Third paragraph".

Question 10: Write down the new HTML code for the first three

tags. You do not need to write down the text between

and the closing

tag.

Question 11: Write down the new CSS code for style.css

```
HINT: Read about CSS Class Selectors: https://www.w3schools.com/cssref/sel_class.asp
```

Following the same principles, modify your code to highlight the row for Captain America with a gray background.

Question 12: Write down the new HTML code for the Captain America |

Question 12: Write down the new CSS code for style.css.

#### **CSS ID Selectors**

If you want to style one specific HTML tag, put an ID attribute on the tag and apply a CSS selector for that ID.

```
HINT: Read about CSS ID Selectors: https://www.w3schools.com/cssref/sel_id.asp
```

Question 13: Write down the HTML and CSS changes needed to change the color of the second paragraph to green.

Question 14 (Extra Credit, +20%): If you haven't yet done so, create a new GitHub project named homework3, configure GitHub Pages on the project, and upload your HTML and CSS into the project. You get the full +20%

if http://yourusername.github.io/homework3 renders correctly on a browser.

You're done. Congratulations!