



First Nations
Technology Council

Focus Web Developer

Week 1 - Lesson 5

Lesson Topics

- Review
- HTML 5
- Unit Capstone – due end of Week 2



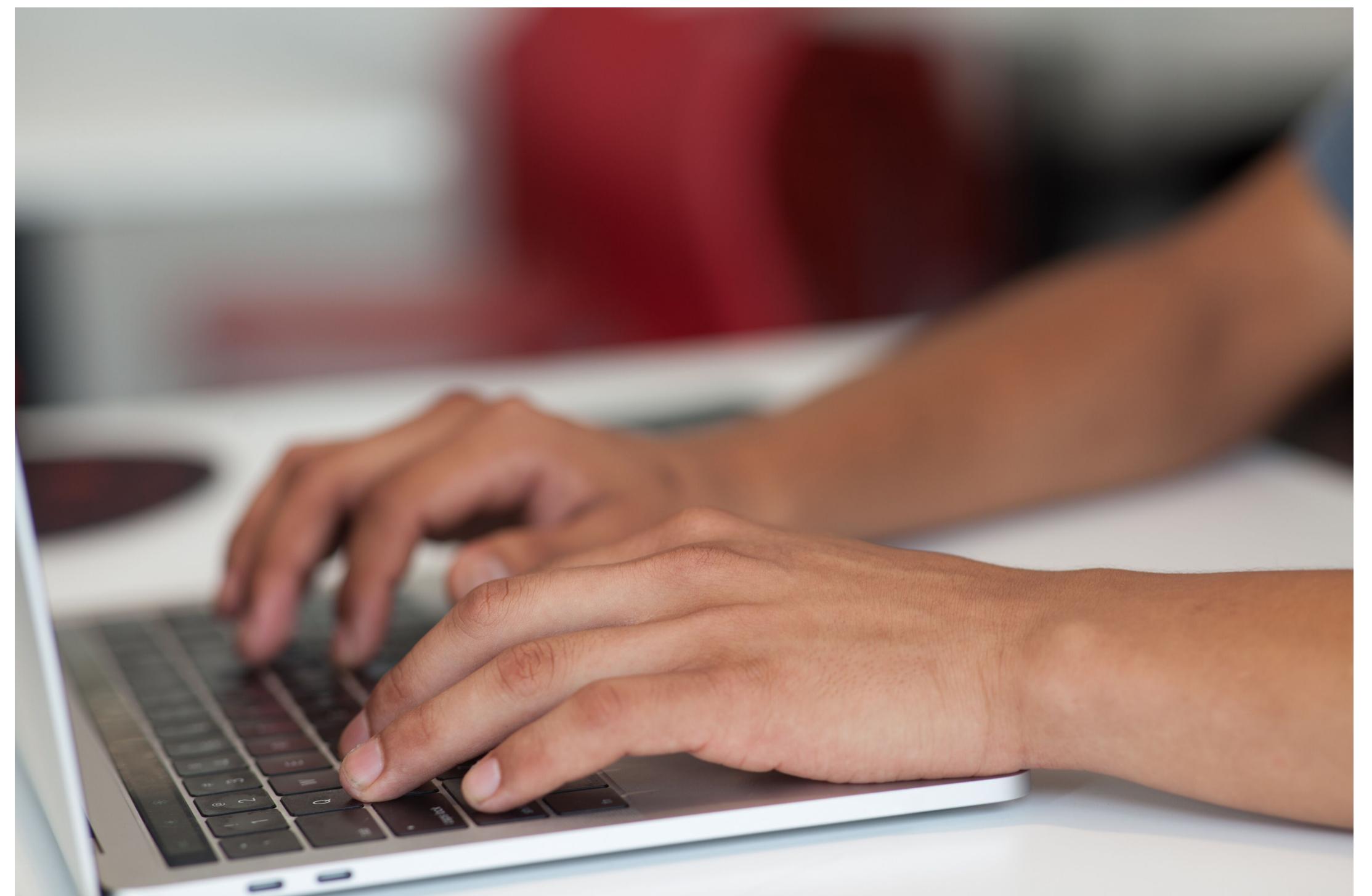
Skills Review

- Developing Environments
- Embedding JavaScript
- External JavaScript
- Creating HTML docs
- Text Editor
- JavaScript Attributes



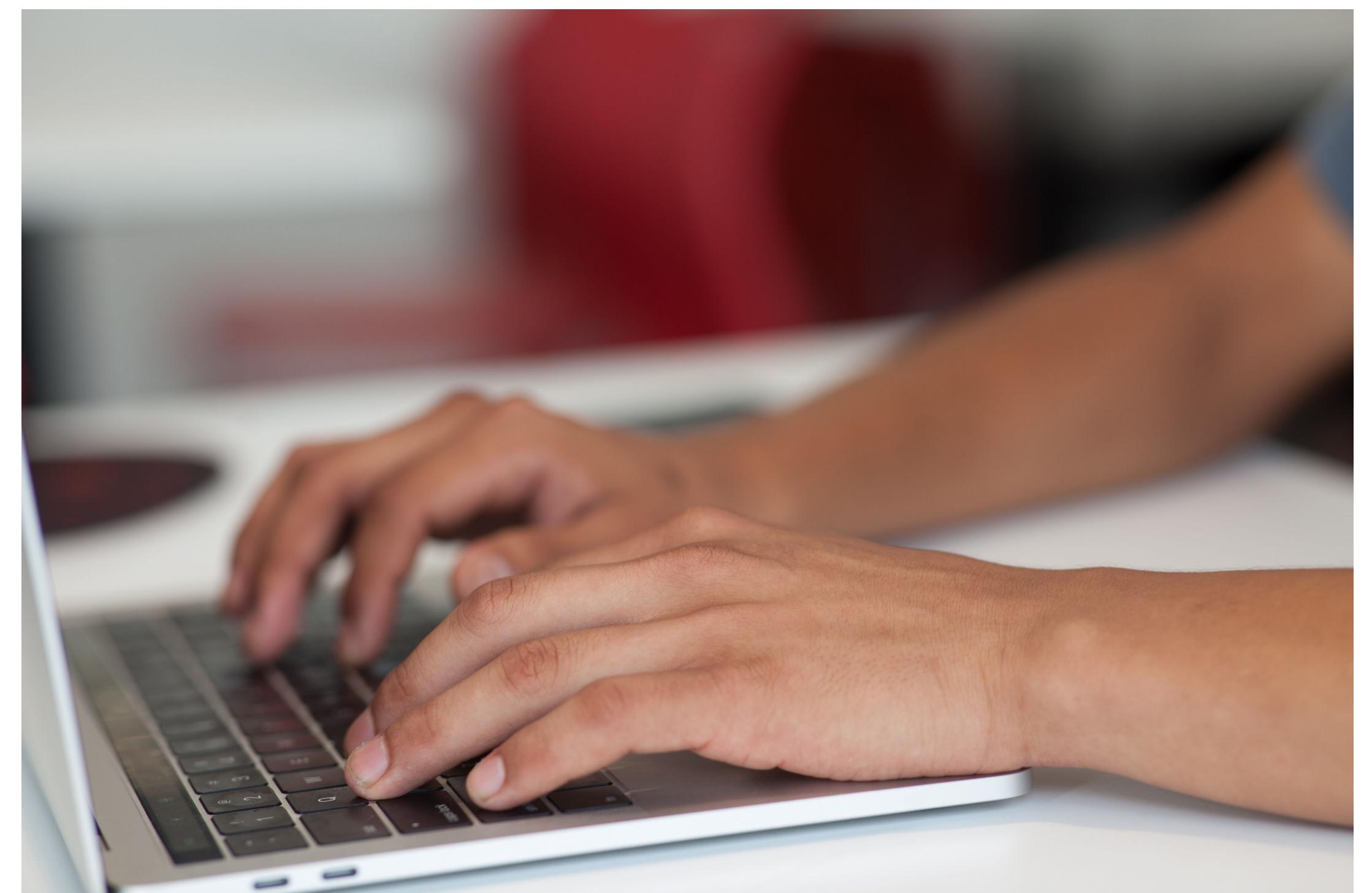
Skills Review

- JavaScript Math
- JavaScript Math Operators
- JavaScript Math Operands
- JavaScript Data
- JavaScript Data Types



JavaScript Review

- Programming Problem Domains
- ECMA Script
- JavaScript's Role
- JavaScript's Pre-eminence



HTML 5

- HTML stands for Hyper Text Mark Up Language
- Hyper Text refers to the most basic characteristic of HTML



HTML 5

- Hyper Text is text that is hyper-linked to other content on the web
- Hyper Text is clickable text that transports you to other content on the web



HTML 5

- Mark up Language refers to the fact that HTML is a Mark-Up language
- A Mark-Up Language is not a programming language



HTML 5

- Mark-Up Languages are used to “mark up” other content
- Marking Up content is the used to define meaning to the content



HTML 5

- So, HTML is a Mark-Up Language (not a programming language) that is used to “Mark-Up” our content of our Web Page



HTML 5

- Because HTML is a Mark-Up language, we use it to give meaning to our Web Pages' content



The Semantic Web

- When we give meaning to content it is called **Semantic**
- **Semantic Content** is Web Content that has meaning attached to it



The Semantic Web

- The **Semantic Web** is the name that is applied to properly Marked-Up Content that is on the web
- The **Semantic Web** is what is powering the evolution of the World Wide Web



The Semantic Web

- Making sure that your Web Page is built with **Semantic Web** best practices makes it **Future Proof**
- **Future Proofing** your Web Page is a way of ensuring that it is built to today's best practice



The Semantic Web

- Future Proofing your Web Pages also ensures that it will be a part of the future of the World Wide Web
- Coming changes to the Web will make further use of Semantic Web Pages



The Semantic Web

- We use HTML along with CSS and JavaScript to create modern Web Pages



CSS

- CSS stands for **Cascading Style Sheets**



CSS

- CSS is the Web Technology that we use to create the **Presentation** layer of Web Pages



CSS

- HTML creates the **Semantic Structure** of our Web Pages
- We use CSS to create the look and feel of our Web Pages



CSS

- Best practice Web Development requires you to keep the Structure of your Web Pages totally separate from your Presentation of your Web Pages



CSS

- We never use HTML to define the look or feel of our Web Pages
- HTML is strictly for creating Semantic Structure



CSS

- CSS is strictly for creating the presentation of our Web Pages
- We use CSS by creating CSS rules



CSS

- CSS Rules define the look of the Web Page



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CSS

- Browsers do have some default CSS rules
- These CSS rules will make your HTML applied content look a certain way



CSS

- We can over-ride these built-in CSS rules, but they do provide us a good starting point



CSS

- Just like JavaScript, we can create separate CSS files



Activity 1

HTML Creation

1. Create a new folder
2. Name the folder **firstname_lastname_1_5_1**
3. Open up Brackets and open this working folder
4. Create an HTML file in this folder and name it **index.html**
5. Create an external JavaScript file and name it **scripts.js**
6. Create an external CSS file and name it **styles.css**

HTML Creation

```
<!DOCTYPE html>

<html>

    <head>

        <title>My Second JavaScript Page</title>

        <meta charset="UTF-8" >

        <link rel="stylesheet" href="styles.css">

    </head>

    <body>

        </body>

    </html>
```

HTML Creation Inside the body tags

<h1>Week 1 Day 5 Web Page</h1>

<p>Today is the Jan 1, 2020</p>

<p>Today we have learned about the Semantic web. The Semantic web is future proofing the World Wide Web. The WWWC is the organisation that puts out all the recommendations of how the Web is going to be improved, and is the body that most professional Web Developers follow in order to create Web Pages and Web Apps that are built with best practices.</p>

HTML Creation Inside the body tags

<p>This week we've covered a lot of ground. We've learned about:

- HTMLCSSJavaScript
- JavaScript's use in building interactivity and functionality
- JavaScript's importance and adoption
- JavaScript Developing Environments
- JavaScript Operational Environments
- Text Editors

and a lot more We've also learned how the three main Web Technologies:

- HTMLCSSJS

are the fundamental building blocks of Web Pages and Web Apps.</p>

HTML Creation
Create the CSS file

```
h1{  
    color: red;  
}  
  
p{  
    font-size: 16px;  
}
```

HTML Creation
Create the JS file

```
alert("Hello Web Developers of the world!");
```

1. Attach the JS file.
2. Test your index.html file in a browser

Activity 2

HTML Creation
Attach the JS file



Discussion

Share Code

- 1. Let's break into groups**
- 2. Share your code**
- 3. Debug each other's code**

Unit 1 Project

1. Project Overview and Guidelines



Unit 1 Project Overview

Create your first Web App

1. Pick a topic for your Web App
 - A. Something that interests you
 - B. Something that involves Tech and/or Indigenous concepts
2. Submit the idea to your instructor

Topic Ideas

- “The Digital Divide” and First Nations Communities
- Language and culture
- Economic development
- Health and wellness
- Education and digital skills
- Social media and Community
- Art and digital innovation
- Come up with your own!

Unit 1 Project Overview

- Your Web App will include:
- A main HTML page
- 2 external HTML pages
- 1 external JS file
- 1 external CSS file

Unit 1 Project Overview

Your Web App will include:

- At least 3 paragraphs of text on the main HTML page
- At least 2 paragraphs of text on each additional HTML page
- At least 1 image per HTML page
- 1 JavaScript-driven action

Unit 1 Project

1. Let's get started!



Gathering Time



Gathering Time is a time for check-in.



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Class Wrap-up

How was your day?

How's your website coming along?

Are you excited to add some colour?



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