CUSTOM FONTS AND JQUERY

FULL STACK SKILLS BOOTCAMP

CUSTOM FONTS AND JQUERY

- **Lesson Overview:**

- In this lesson, we will be introduced to:

1. Using Custom Fonts

2. Introduction to jQuery

3. jQuery Widgets

4. Introduction to Git Stash

USING CUSTOM FONTS

- **What Are Custom Fonts?**

- **Definition**: Fonts that are not natively available in the browser but can be loaded from external sources.

- **Importance**: Enhances the visual appeal and branding of websites.

Google Fonts

HOW TO ADD A GOOGLE FONT

- **Step 1:** Visit Google Fonts.

- **Step 2:** Select a font family (e.g., **Roboto** or **Open Sans**).

- **Step 3:** Copy the <link> tag provided.

```
<link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap" rel="stylesheet">
```

USING CUSTOM FONTS IN A CSS STYLESHEET

- **Step 1**: Add the Google Fonts <link> tag to the <head> section of your HTML file.

- **Step 2**: Use the font in your CSS:

- **Best Practice**: Always provide fallback fonts (e.g., sans-serif) for better cross-browser compatibility.

```
body {
    font-family: 'Roboto', sans-serif;
}
```

Demo…

INTRODUCTION TO JQUERY

- **What is jQuery?**

- **Definition**: A lightweight, fast, and feature-rich JavaScript library designed to simplify HTML DOM manipulation, event handling, and AJAX interactions.

- **Why it was developed**: To simplify common tasks in JavaScript, making it easier to work across different browsers.

INTRODUCTION TO JQUERY

- **What You Can Do with jQuery?**

- **Key Features**:
  Simplified DOM manipulation (e.g., adding or removing elements).

- CSS manipulation.

- Event handling (e.g., clicks, hovers).

- AJAX (Asynchronous JavaScript and XML) for loading data without refreshing the page.

INTRODUCTION TO JQUERY

- **How to Install jQuery on a Web Page**

- **Step 1:** Add the jQuery <script> tag from a CDN

```
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
```

- **Step 2:** Alternatively, download the jQuery library
  and include it locally.

INTRODUCTION TO JQUERY

- **How to Change CSS with jQuery**

- **Syntax Example**:

  Change the background color of a div with a button click

- **Explanation**:

  This code waits for the document to load, listens for a button click, and changes the background color of a div.

  Demo…

```
<script>
  $(document).ready(function(){
    $("button").click(function(){
      $("div").css("background-color", "lightblue");
    });
  });
</script>
```

JQUERY WIDGETS

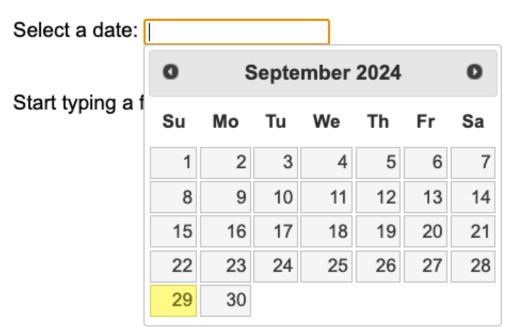- **What are jQuery Widgets?**

  Definition: jQuery UI is a collection of user interface interactions, effects, and widgets built on top of the jQuery JavaScript library.

  Why use them?: Simplifies the creation of interactive UI elements.

EXAMPLES OF COMMONLY USED JQUERY WIDGETS

- **Accordion**: Organizes content in a collapsible manner.

- **Datepicker**: A calendar for selecting dates.

- **Dialog**: A modal box for displaying information or forms.

- **Slider**: An interactive control for selecting a numeric value.

Select a date:

Start typing a f

	September 2024					
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

EXAMPLE: JQUERY DATEPICKER WIDGET

- **How to Add a Datepicker**

- **Explanation**: Once jQuery UI is included, the datepicker() function transforms an input field into a clickable date selection tool.

```html
<input type="text" id="datepicker">
<script>
  $(function() {
    $("#datepicker").datepicker();
  });
</script>
```

WHY JQUERY WIDGETS SPEED UP DEVELOPMENT

- **Why jQuery Widgets Speed Up Development**:

- **Pre-built components**: Reduce the need to code interactions from scratch.

- **Cross-browser compatibility**: Widgets work consistently across different browsers.

- **Customizable:** Easy to modify the appearance and behaviour using CSS and options.

  Demo…

GIT STASH

- **What is Git Stash?**

- **Definition**: Git Stash temporarily saves changes you've made in your working directory so that you can switch branches without committing unfinished work.

- **Why it's useful**:

  - Allows developers to switch branches without losing changes.

  - Prevents the need to commit incomplete or broken code.

HOW TO USE GIT STASH

- **Stashing Your Changes**

```
git stash
```

- Temporarily saves local changes and reverts to a clean working directory.

- **Restoring Your Changes**

```
git stash pop
```

- Restores stashed changes to your current working directory.

EXAMPLE WORKFLOW WITH GIT STASH

1. **You're working on a feature** but need to switch to another branch to fix a bug.

2. **Stash your changes** with git stash.

3. **Switch branches** and fix the bug.

4. **Return to your original branch** and apply the stashed changes with git stash apply.

CONCLUSION

- Using custom fonts can enhance the look of your website.

- jQuery simplifies JavaScript tasks like DOM manipulation and CSS changes.

- jQuery widgets speed up UI development with reusable components.

- Git stash helps keep your workflow clean and organized.

- **Optional Slide: Resources**

- **Google Fonts**: https://fonts.google.com

- **jQuery Documentation**: https://jquery.com

- **Git Documentation**: https://git-scm.com

QUESTIONS?