

The background is a dark blue gradient. Overlaid on this is a complex network of white dots of varying sizes, connected by thin white lines. The dots and lines are more concentrated on the right side of the image, creating a sense of depth and connectivity. The overall aesthetic is modern and technological.

Welcome to the Apprenticeship Program – Session 19

Agenda

- Using Custom Fonts
- Introduction to jQuery
- jQuery Widget



Custom Fonts

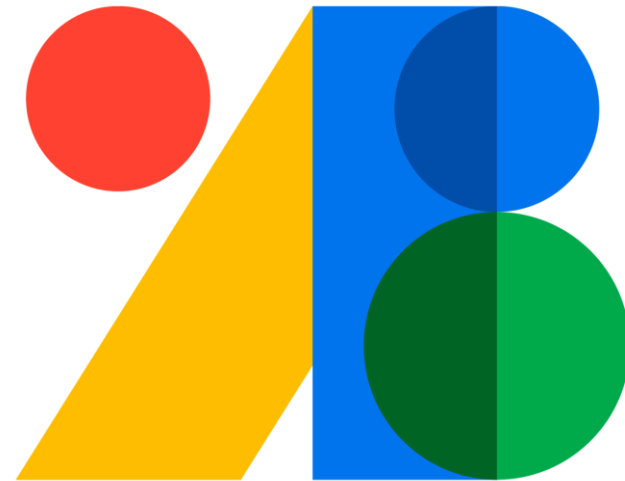


- **Definition:** Fonts not natively available in browsers, loaded from external sources.
- **Why use Custom Fonts?**
 - Enhances website aesthetics.
 - Helps with branding and uniqueness.

custom fonts

How to Add a Google Font

- Visit [Google Fonts](#).
- Select a font (e.g., Roboto or Open Sans).
- Copy the `<link>` tag provided.
- Paste it inside the `<head>` of your HTML file.



Using Custom Fonts in CSS

- Step 1: Add Google Fonts link inside <head>

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

- Step 2: Apply the font in CSS

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

Best Practice: Always provide fallback fonts for better compatibility.

DEMO

Introduction to jQuery

- **Definition:** A fast, lightweight JavaScript library.
- **Why use jQuery?**
 - Simplifies HTML DOM manipulation.
 - Makes event handling easier.
 - Works consistently across browsers.



How to Install jQuery

- Option 1: Use a CDN (recommended)

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

- Step 2: Download and include locally

```
<script src="jquery.min.js"></script>
```

Changing CSS with jQuery

■ Example:

- Changing background color on button click.

■ How It Works:

- Waits for the document to load.
- Listens for button click.
- Changes the background color of <div>.

```
<button id="changeColor">Click Me</button>
<div id="box">Hello!</div>

<script>
  $("#changeColor").click(function() {
    $("#box").css("background-color", "lightblue");
  });
</script>
```

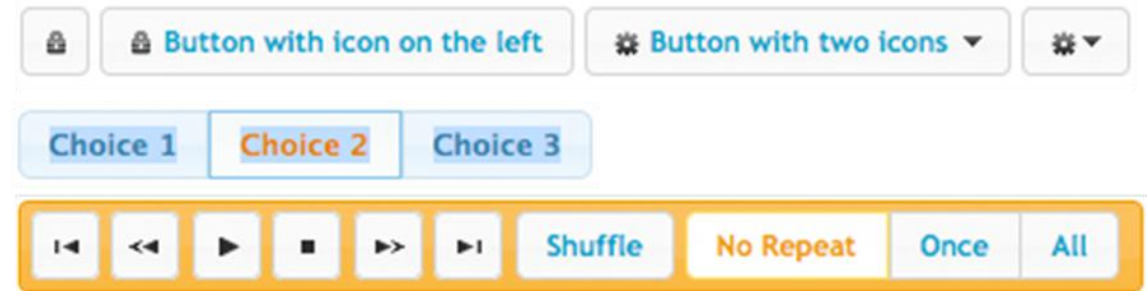
DEMO

jQuery Widgets

■ **Definition:** Pre-built UI elements in jQuery UI.

■ **Why use jQuery Widgets?**

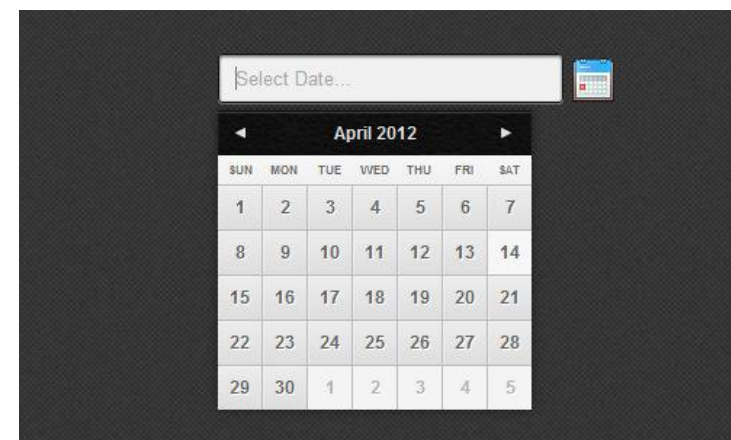
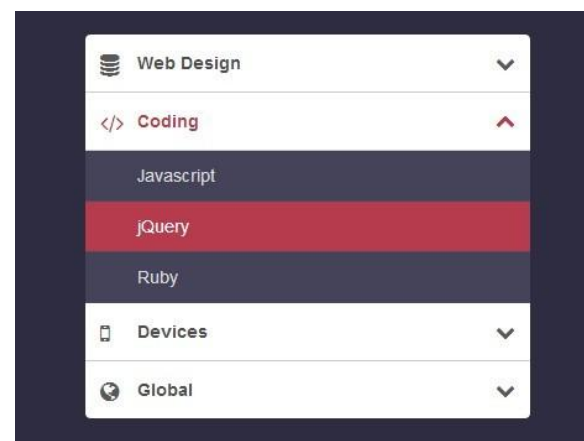
- Reduces need for custom JavaScript.
- Ensures cross-browser compatibility.
- Easy to customize and style.



Example Widgets'

■ Some jQuery Widgets:

- **Accordion** – Collapsible content.
- **Datepicker** – Select a date from a calendar.
- **Dialog** – Pop-up modal box.
- **Slider** – Select a numeric value.



Datepicker Widget

■ How to Add a Datepicker:

```
<input type="text" id="datepicker">

<script>
  $(function() {
    $("#datepicker").datepicker();
  });
</script>
```

■ Effect: Transforms an input field into a clickable calendar.

Why jQuery Widgets Speed Up Development?

- Pre-built components reduce coding effort.
- Ensures consistency across different browsers.
- Customizable with CSS and options.



DEMO

Conclusion and Q&A

■ Key Takeaways:

- Custom fonts improve website aesthetics and branding.
- jQuery makes JavaScript easier and more efficient.
- jQuery widgets simplify UI development.



- Official jQuery Documentation: <https://jquery.com/>