

# Training Day 28 Report

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## Topic: CSS Media Queries and Device Responsiveness

Today's session introduced media queries—a powerful CSS feature that allows web pages to adapt their layout and styling based on screen size, resolution, and device type. This is essential for building mobile-friendly and accessible websites.

## Key Areas Covered

### 1. What Are Media Queries?

- Conditional CSS rules that apply styles based on device characteristics.
- Syntax: `@media` followed by conditions like `max-width`, `min-width`.
- Enables responsive design without changing HTML structure.

### 2. Common Breakpoints

- Mobile: `max-width: 480px`
- Tablet: `max-width: 768px`
- Desktop: `min-width: 1024px`
- Used to adjust layout, font size, spacing, and visibility.

### 3. Responsive Techniques

- Hide/show elements based on screen size.
- Stack columns vertically on small screens.
- Adjust padding and margins for better fit.
- Resize images and text for readability.

## 4. Combining Units and Queries

- Used `em`, `rem`, `vw`, and `%` with media queries.
- Ensured fluid layout using flexible containers.
- Previewed advanced queries for orientation and resolution.

## Hands-On Practice

Created a responsive portfolio page:

- Navigation bar collapsed into hamburger menu on mobile.
- Grid layout converted to single column on small screens.
- Font sizes and image dimensions adjusted using breakpoints.

## Key Takeaways

- Media queries are essential for building device-friendly websites.
- Breakpoints allow tailored experiences across screen sizes.
- Combining flexible units with queries improves scalability.
- Responsive design enhances usability, accessibility, and professionalism.