

WEEK: 2 & 3

COURSE INSTRUCTOR: ABDULLAH MAHMOOD

1. What Are Media Queries?

CSS Media Queries allow you to apply CSS rules based on device characteristics, such as screen size, resolution, or orientation. They are essential for responsive design.

SYNTAX:

```
@media (media-feature) {
   /* CSS rules */
}
```



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1. For Devices

Device Type Breakpoint Range Media Query Syntax **Example Use Case** Extra Small max-width: 480px @media (max-width: 480px) For smartphones in portrait view. Single-column layouts, smaller Devices { ... } text, etc. Small Devices max-width: 768px @media (max-width: 768px) For larger smartphones or { ... } tablets in portrait. Two-column layouts, adjust spacing. Medium max-width: 1024px @media (max-width: 1024px) For tablets and small laptops. Devices { ... } Three-column layouts, moderate font sizes. Large Devices min-width: 1025px @media (min-width: 1025px) For desktops and laptops. Four-{ ... } column layouts, larger fonts, and detailed spacing. Extra Large min-width: 1200px @media (min-width: 1200px) For large monitors. Maximum-Devices { ... } width containers, six-column layouts.

DIFFERENCE BETWEEN MAX & MIN WIDTH

Key Differences:

Property	Behavior	Use Case
max- width	Applies styles when the width is less than or equal to the specified value.	For targeting smaller devices (phones, small tablets).
min- width	Applies styles when the width is greater than or equal to the specified value.	For targeting larger devices (tablets, laptops, desktops).



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```
<!DOCTYPE html>
    <html lang="en">
     <meta charset="UTF-8">
     <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>Media Query Example</title>
       .box {
        padding: 20px;
         text-align: center;
         font-size: 18px;
         color: ■white;
       /* Default Style for Large Screens (larger than 1024px) */
16
17
18
        @media (max-width: 480px) {
19
         .box {
           background-color: ■lightblue; /* Blue for very small screens (phones) */
22
23
       @media (min-width: 768px) {
         .box
28
          background-color: □rgb(43, 76, 13); /* Blue for very small screens (phones) */
```



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- What this does: This media query targets devices that have a maximum width of 480px (usually small smartphones).
- When the screen width is 480px or smaller, the .box will have a lightblue background.
- · Use Case: This is generally used for phones or smaller devices.

FOR 768 OR MORE ...

- What this does: This media query targets devices with a minimum width of 768px, meaning it applies to devices that are 768px or wider.
- When the screen width is 768px or larger, the .box will have a greenish background (rgb (43, 76, 13)).
- Use Case: This is typically used for larger tablets, or desktop-sized devices.