



# Topic 8: Cascading Style Sheets

## Media Queries



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# Media Query Format

- The format of a media query:

```
@media type (feature) operator (feature) {  
    ...Css-rules...  
}
```

- example:

```
@media screen (max-width: 600px) {  
    h1 {  
        font-size: 15px;  
    }  
}
```



# Media Query Types

- The format of a media query:

```
@media type (feature) operator (feature) {  
    ...Css-rules...  
}
```

- **types:** screen, print, speech, all; (default: all)

```
@media not(color) {  
    /* all media types */  
    h1 {  
        background-color: gray;  
    }  
}
```



# Media Query Operators

- The format of a media query:

```
@media type (feature) operator (feature) {  
    ...Css-rules...  
}
```

- **operators:** not, and, or (or comma)

```
@media print and (not(color)) {  
    ...Css-rules...  
}
```



# Media Query Features

- The format of a media query:

```
@media type (feature) operator (feature) {  
    ...Css-rules...  
}
```

- *features*: screen, print, speech, all
  - width, min-width, max-width
  - orientation: portrait, orientation: landscape
  - prefers-color-scheme: dark, prefers-color-scheme: light
  - others: display-mode: fullscreen, pointer, hover, color, scripting, ...



# Example: Screen Width

- Change style based on things such as screen width
  - `max-width: 600px`
    - use enclosed styles when less than or equal to 600px
  - `min-width: 601px`
    - Use enclosed styles when greater than or equal to 601px

```
                breakpoint
                ┌───────────┐
@media (max-width: 600px) {
  h1 {
    Font-size: 15px;
  }
}
```



# Example: Screen Width

- Can combine
  - max-width: 600px
    - use enclosed styles when less than or equal to 600px
  - min-width: 601px
    - Use enclosed styles when greater than or equal to 601px

```
@media (min-width: 601px) and (max-width: 900px) {  
    /* styles for screens between 600px and 900px */  
    h1 {  
        Font-size: 15px;  
    }  
}
```



# Example: Orientation

```
@media (orientation: landscape) {  
    /* styles for landscape orientation */  
}
```

```
@media (orientation: portrait) {  
    /* styles for portrait orientation */  
}
```





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