***Media Queries***

**Basic Media Queries Introduction**

**Things You Should Know**

* a responsive website changes it’s characteristics based on different device characteristics.
* responsive styling allows you to change anything based on a devices characteristics (height & width primarily)

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**Adding Basic Media Queries**

**Things You Should Know**

* Screen and print are the common media types we use when setting style sheets
* With media queries we are able to define a width, both min and max, at which a style should be applied.

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**Adding More Basic Media Quires**

**Things You Should Know**

* media queries can be applied the following ways:
  + using the media attribute on a linked stylesheet
  + they can be embed them with an @media tag
  + they can be embed them with an @import tag – should be avoided do to performance reasons
  + choosing to import styles should always be heavily weighed – http requests cost time which impacts performance

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**More On Media Queries**

**Things You Should Know**

* media queries often use min-width and max-width
* max-widht rules are applied any time the viewport rules are less than the value specified
* it is possible to create queries based on min-device-width and max-device-width but is strongly discouraged
  + min-width is based on the width of the browser window
  + min-device-width is based on the width of the device screen
    - using device-width will not allow content with re-sizable view areas to be resized thus loosing the responsive nature of the page
    - some browsers can also report the wrong values

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**Complex Media Queries**

**Things You Should Know**

* there are times we need to create breakpoints based on more complex test including testing more than one characteristic.
* by using “and” in between tests we are able to more accurately identify more complex media queries.

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