

Responsive and Adaptive Designs

- Not the same
- Both about page effective at different sizes
- Neither denies nor requires "gutters"
 - Some designs don't go full width
 - Essentially a max width
 - Has empty/background "gutters" on sides

Responsive Design

- A page that uses available size
- Content wraps as needed
- HTML is naturally responsive!
 - but then we mess it up with styling

Adaptive Design

- Changing layout at certain breakpoints
- Not automatic
- Allows for good use of space
 - Not just wrapped use of space

How?

TL;DR: Media queries

- CSS operates off of 2+ options for layout
 - based on viewport dimensions
 - reorder elements in layout
 - collapse menus

Simple example

Page:

- header
- menu
- content
- footer

Desktop size:

- Vertical to right of main content

Mobile size:

- Horizontal menu across top of main content

But Mobile!

DevTools has many preset mobile options

- Why doesn't the mobile work?!
- Desktop resizing does!

Mobile Cheats

- Layout viewport
 - Media query checks!
- Visual viewport
 - Allows for zoom and pan

Most mobile devices render as if a larger size

- then zoom out

Override with

```
<meta name="viewport" content="width=device-width">
```