
FRONT-END WEB DEVELOPMENT

SNACKS & DESIGN

WEDNESDAY

LINDSEY

(GOOGLE SHEET IS PINNED IN SLACK)

FEWD

Q & A

RESPONSIVE BASICS

RESPONSIVE REVIEW

RESPONSIVE DESIGN



FIXED LAYOUT

- Relies on a container of a fixed width (uses static units)
- Resizing the browser/viewing it on a different device won't have an effect on the page

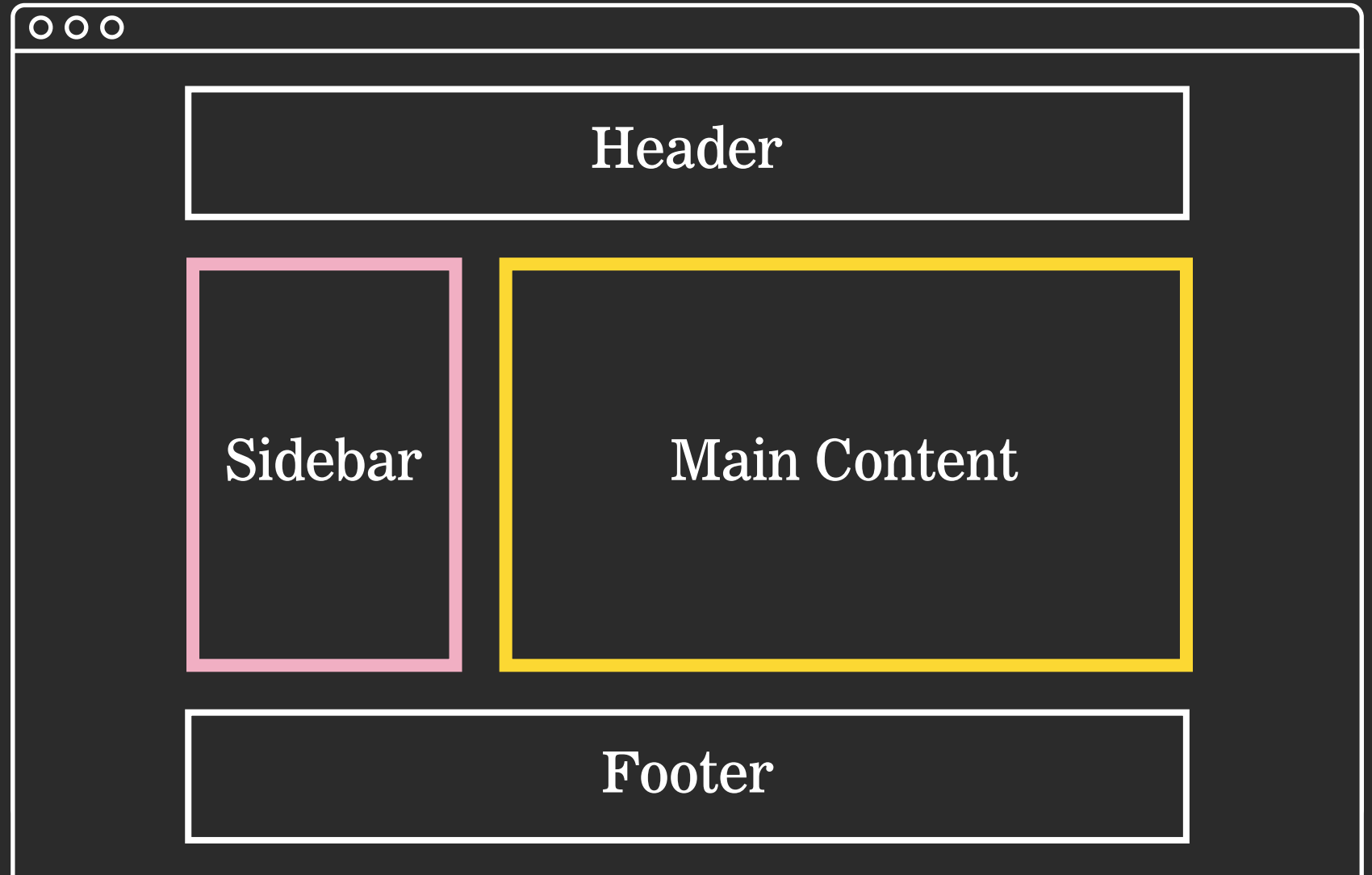


FIXED WIDTH LAYOUT

Fixed width layouts do not change size as the user increases/decreases width of browser window

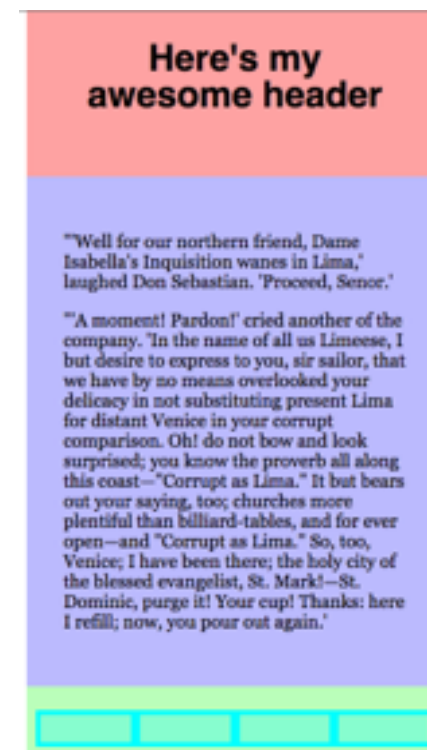
To create:

- Width of any main boxes is set in pixels
- Layout can be centered by setting the value of the left and right margins to auto



FLUID LAYOUT

- Uses relative widths (percentages)
- No media queries

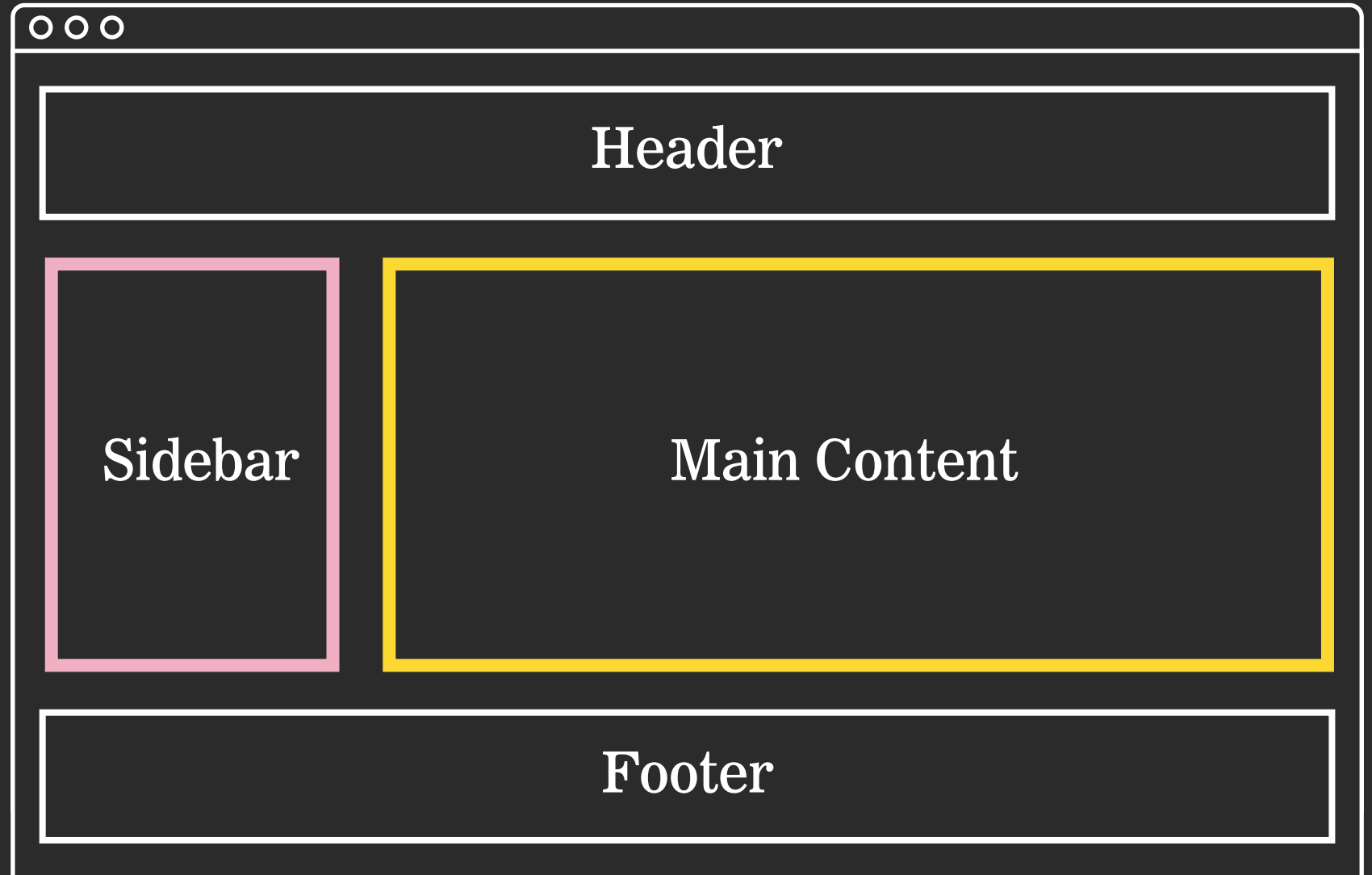


FLUID LAYOUT

Fluid layouts stretch and contract as the user increases/decreases the size of their browser window

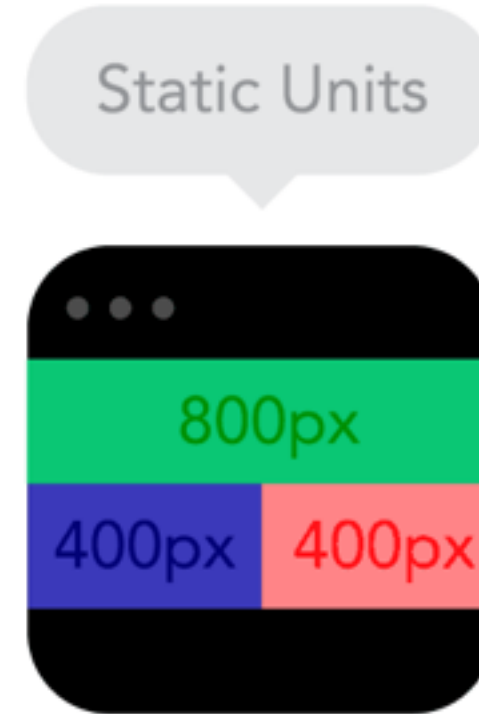
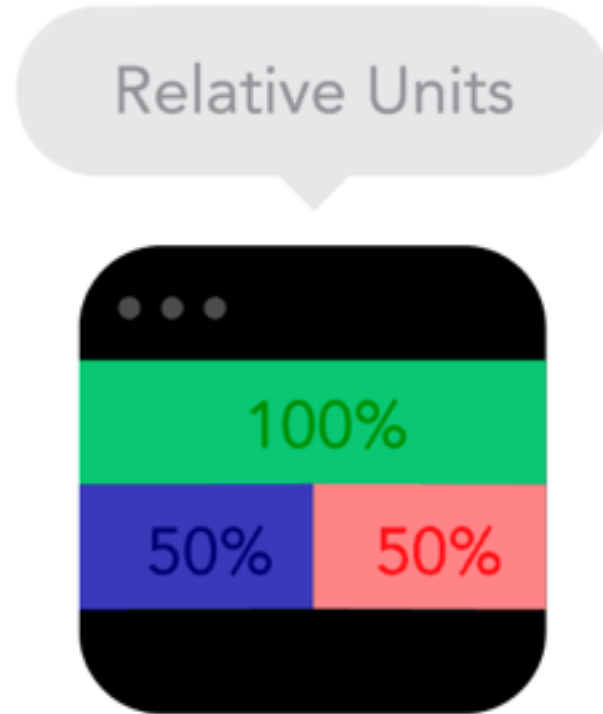
To create:

- Uses percentages to set the width of each box so that the design will stretch to fit the size of the screen



FIXED VS. FLUID

Fluid layout

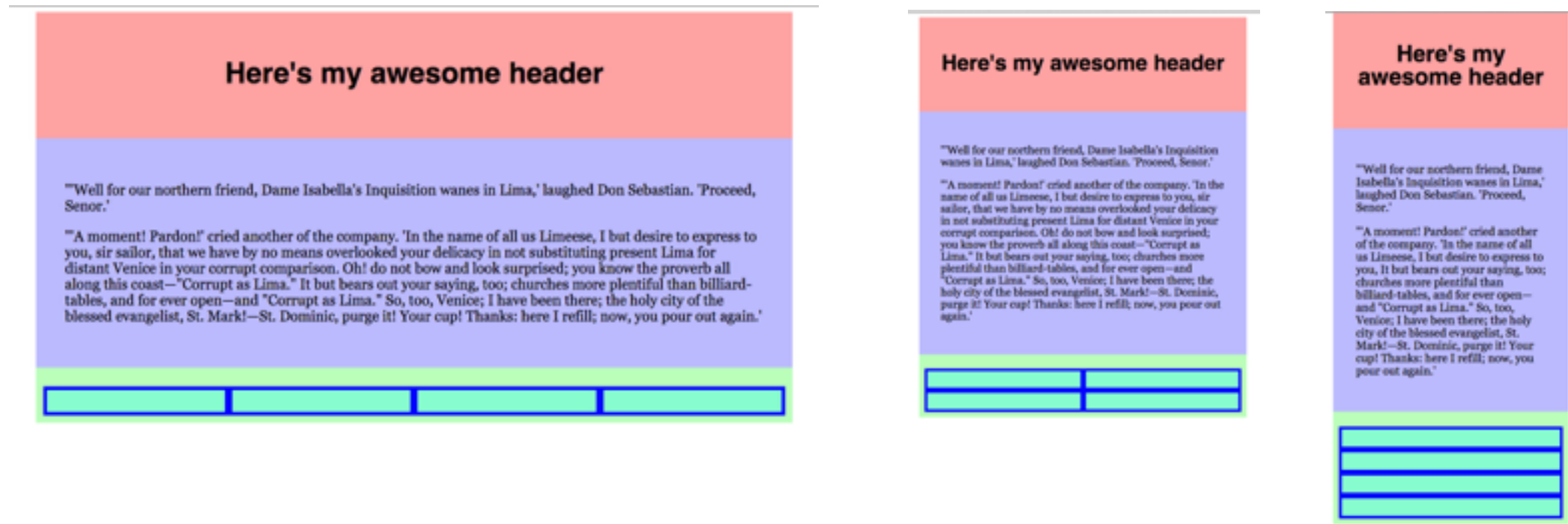


Fixed

Gif credit: [Fast Company](#)

RESPONSIVE LAYOUT

- Uses relative widths (built on a fluid grid)
- Use media queries to control design and content as it scales down or up with the browser or device



WITH BREAKPOINTS VS. WITHOUT BREAKPOINTS

With Breakpoints

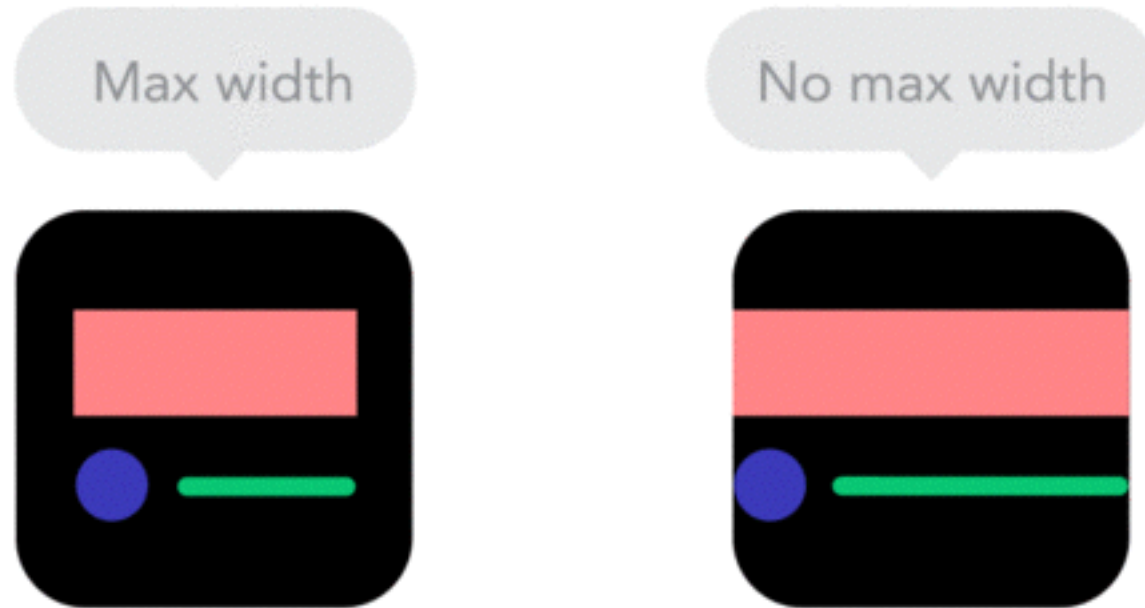


Without Breakpoints



Gif credit: [Fast Company](#)

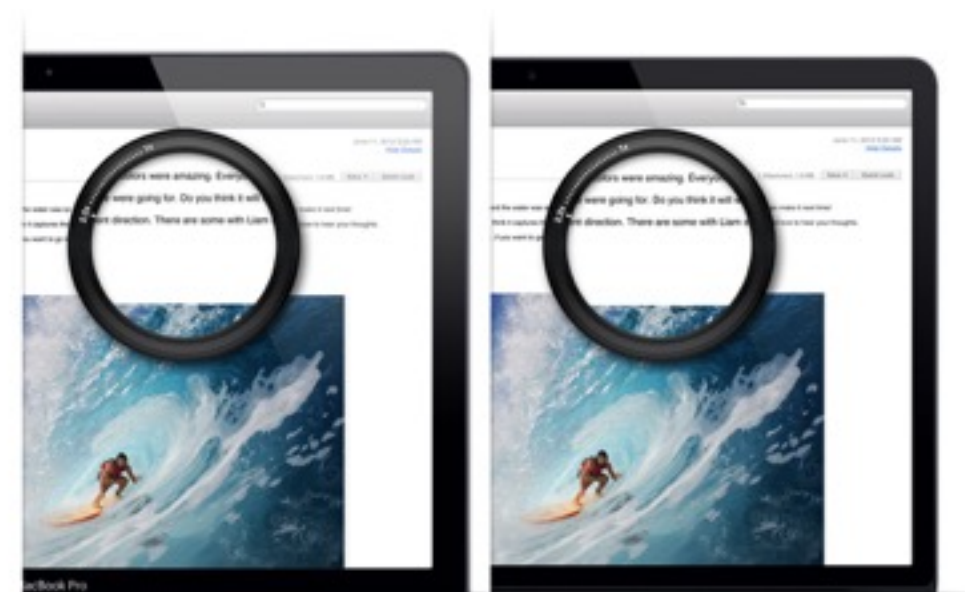
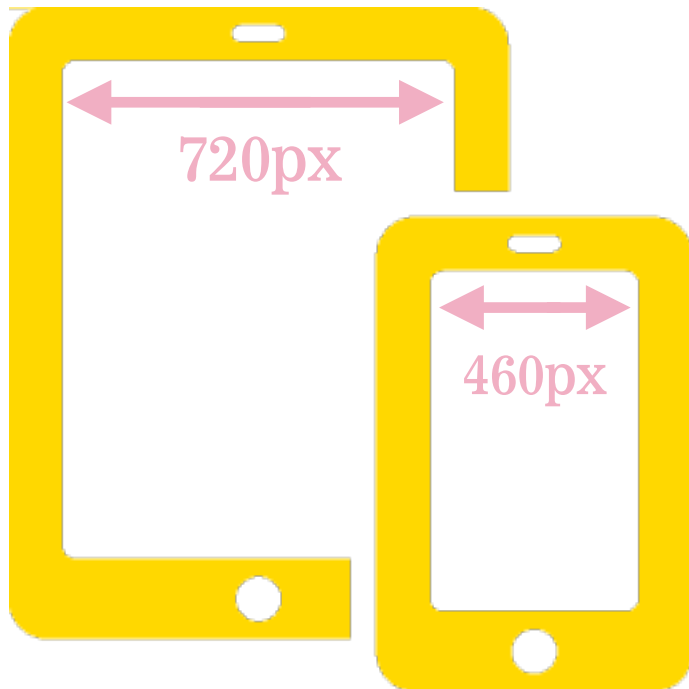
MAX-WIDTH — A HELPFUL TOOL FOR LAYOUT



Gif credit: [Fast Company](#)

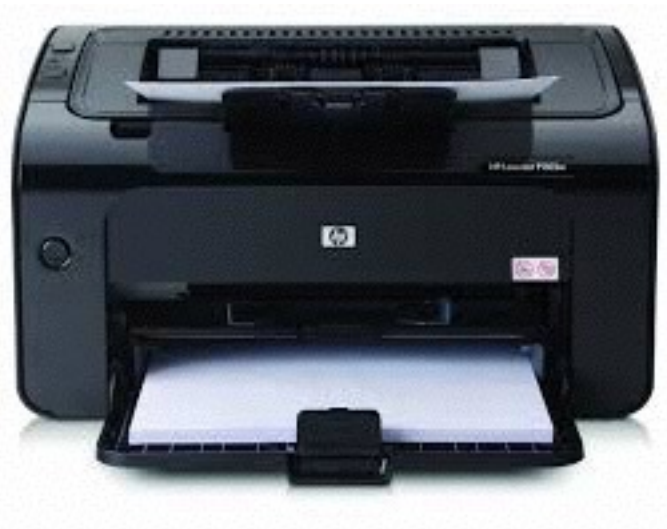
MEDIA QUERIES

- Media queries allow us to target CSS rules based on screen size, device orientation, display density, etc.



MEDIA QUERIES

- ▶ We can use media queries to allow certain rules to apply for an iPad or iPhone, to add styles for a printer, or to create a responsive site.
- ▶ With media queries, we can allow most of our styles to remain the same, while we make **small tweaks for specific formats**.



MEDIA QUERIES — SECOND METHOD

Use media queries directly in your CSS

```
@media screen and (max-width: 600px) {  
  .box {  
    width: 100%;  
  }  
}
```

**Usually goes at the end of stylesheet.*

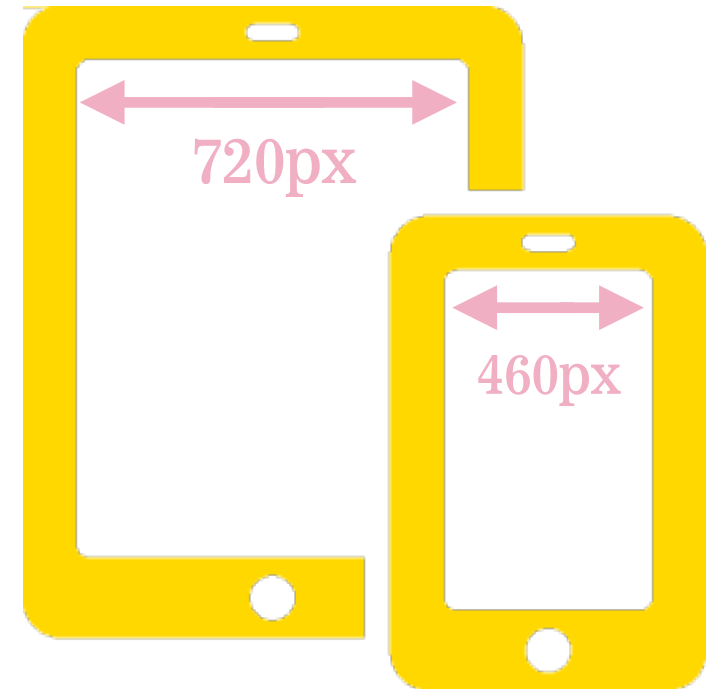
MEDIA QUERIES — SYNTAX

MEDIA FEATURES

- **width:** viewport width
- **height:** viewport height

```
@media screen and (max-width: 600px){  
  /* Styles for screens with a maximum width of 600px */  
}
```

```
@media screen and (min-width: 600px){  
  /* Styles for screens with a minimum width of 600px */  
}
```



***See a full list of features [here](#)

VIEWPORT META TAG — AN IMPORTANT NOTE!!

- The viewport meta tag controls how a webpage is displayed on a mobile device.
- Without the tag, mobile devices will assume you want the full desktop experience and will set the viewport width at 980px (iOS)

DEVICE-WIDTH

- This tells the browser “My Website adapts to your width”

INITIAL-SCALE

- Sets the initial zoom level and prevents default zooming

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

RESPONSIVE BASICS

RESPONSIVE — REM/EM

EM

- *Relative* unit
- Sized based on the width of the letter “m”
- 1em = 100% font-size
- .5em = 50% font-size
- **Based on parent**

Parent { font-size:16px;}

Child {font-size:2em;}  Child's font size is 32px (200% x 16px)

REM

- "Root" em
- Same as em **except** based on the font-size of the html element

PIXELS AND EMS AND REMS, OH MY!!

	RELATIVE?	BASED ON
PX	absolute	
EM	relative	parent
REM	relative	html element

THE BENEFIT OF USING RELATIVE UNITS

```
html { font-size: 16px; }
h1 { font-size: 33px; }
h2 { font-size: 28px; }
h3 { font-size: 23px; }
h4 { font-size: 19px; }
small { font-size: 13px; }
.box { padding: 20px; }

@media screen and (min-width: 1400px) {
  html { font-size: 20px; }
  h1 { font-size: 41px; }
  h2 { font-size: 35px; }
  h3 { font-size: 29px; }
  h4 { font-size: 24px; }
  small { font-size: 17px; }
  .box { padding: 25px; }
}
```

```
html { font-size: 16px; }
h1 { font-size: 2.074rem; }
h2 { font-size: 1.728rem; }
h3 { font-size: 1.44rem; }
h4 { font-size: 1.2rem; }
small { font-size: 0.833rem; }
.box { padding: 1.25rem; }

@media screen and (min-width: 1400px) {
  html { font-size: 18px; }
}
```

FRONT-END WEB DEVELOPMENT

SNACKS & DESIGN

MONDAY

LEO

(GOOGLE SHEET IS PINNED IN SLACK)

LAB

HOMEWORK: ME! FINAL PROJECT REVIEW

RESPONSIVE BASICS

EXIT TICKETS