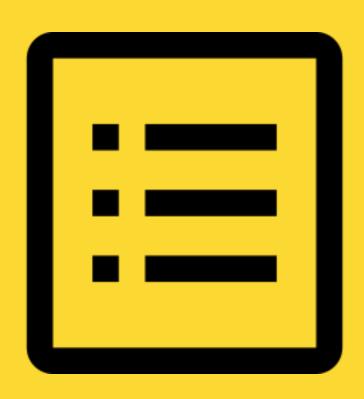


HTTP://TEACHING.EBOYER.IO

### **LEARNING OBJECTIVES**

- Learn how to analyze a web page in order to be able to redesign it responsively.
- Practice using media queries to achieve a responsive design.

#### **AGENDA**



- Answers to Exit Ticket Questions
- Review
- ▶ Responsive Type REM/EM
- → iOS Simulator
- Startup Matchmaker Plan
- Startup Matchmaker Lab time

"Where to begin and how to stay organized"

"I would like more practice with debugging"

"Not sure when fixed designs work best"

"Imaging and multimedia responsive design for media queries? Are different resolutions needed?"

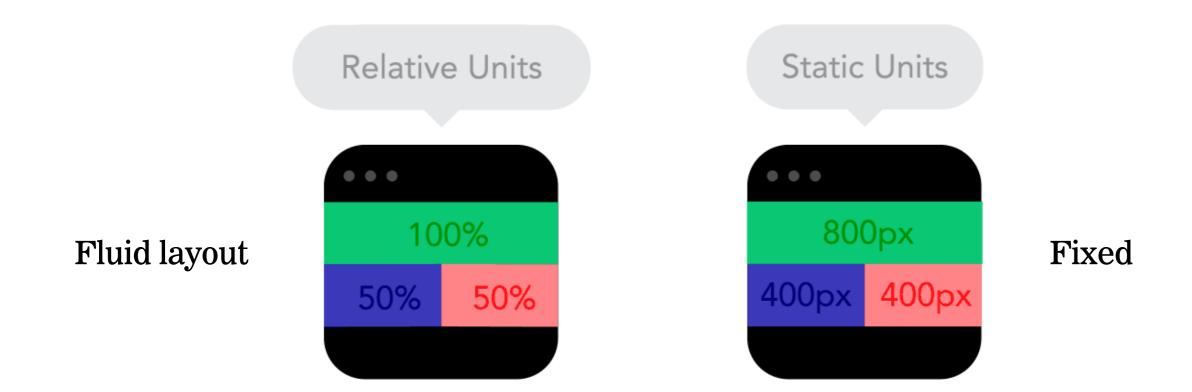
"Do companies attempt to accomplish this goal with two websites?
One mobile and one for PCs?"

## REVIEW

#### **RESPONSIVE DESIGN**

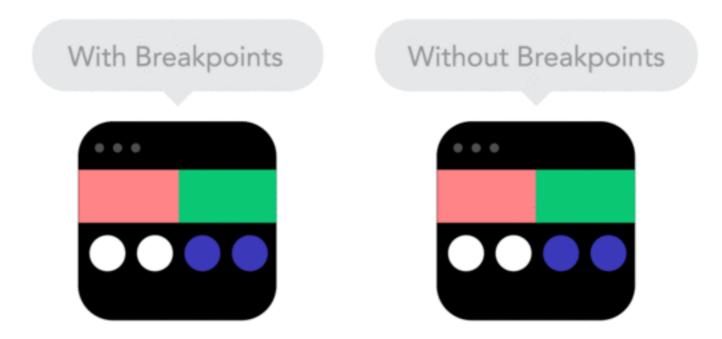


#### FIXED VS. FLUID



Gif credit: Fast Company

#### WITH BREAKPOINTS VS. WITHOUT BREAKPOINTS



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

#### Here's my awesome header

"'Well for our northern friend, Dame Isabella's Inquisition wanes in Lima,' laughed Don Sebastian. 'Proceed, Senor.'

"'A moment! Pardon!' cried another of the company. 'In the name of all us Limeese, I but desire to express to you, sir sailor, that we have by no means overlooked your delicacy in not substituting present Lima for distant Venice in your corrupt comparison. Oh! do not bow and look surprised; you know the proverb all along this coast—"Corrupt as Lima." It but bears out your saying, too; churches more plentiful than billiard-tables, and for ever open—and "Corrupt as Lima." So, too, Venice; I have been there; the holy city of the blessed evangelist, St. Mark!—St. Dominic, purge it! Your cup! Thanks: here I refill; now, you pour out again.'

#### Here's my awesome header

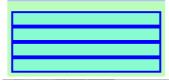
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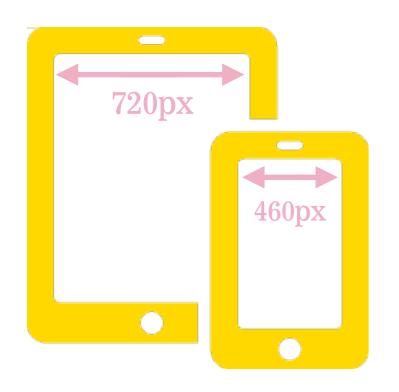
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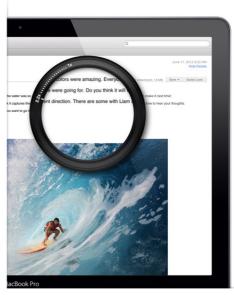


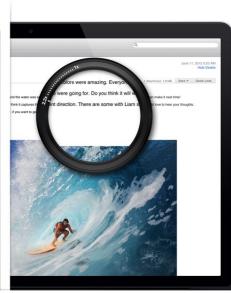
#### **MEDIA QUERIES**

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









#### **MEDIA QUERIES**

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

#### **RESOURCES**

Review resources from Tuesday on <a href="http://teaching.eboyer.io">http://teaching.eboyer.io</a>

#### **RESPONSIVE BASICS**

## RESPONSIVE —— REM/EM

#### **EM**

- Relative unit
- Sized based on the width of the letter "m"
- $\rightarrow$  1em = 100% font-size
- $\rightarrow$  .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 <a href="html">html</a> element

#### PIXELS AND EMS AND REMS, OH MY!!

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

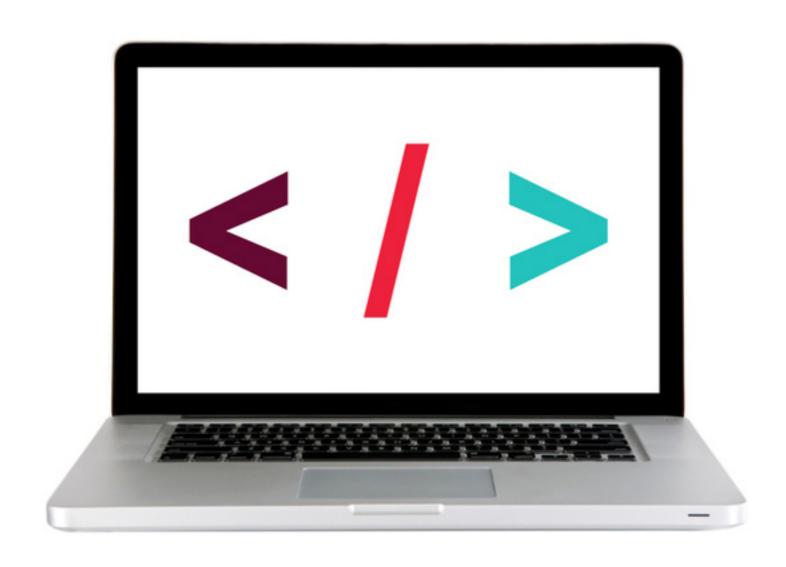
#### THE BENEFIT OF USING RELATIVE UNITS

```
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: 1em; }
h1 { font-size: 2.074em; }
h2 { font-size: 1.728em; }
h3 { font-size: 1.44em; }
h4 { font-size: 1.2em; }
small { font-size: 0.833em; }
.box { padding: 1.25em; }

@media screen and (min-width: 1400px) {
   html { font-size: 1.25em; }
}
```

#### **LET'S TAKE A CLOSER LOOK**



#### **RESOURCES**

Review resources for Today on <a href="http://teaching.eboyer.io">http://teaching.eboyer.io</a>

## IOS SIMULATOR

#### **IOS SIMULATOR!**



#### **ACCESSING THE IOS SIMULATOR**

#### LAUNCHING THE SIMULATOR

- 1. Download (FROM HOME) Xcode from the App Store
- 2. Launch Xcode
- 3. Control-click the Xcode icon in the Dock, and choose Open Developer Tool > iOS Simulator from the shortcut menu

#### **CHANGING DEVICES**

1. Choose a device from the Hardware > Device menu.

#### **DEBUGGING IN SAFARI**

- 1. Launch Safari
- 2. Go to Develop > iOS Simulator > (select your page) to open Safari's elements panel

# STARTUP MATCHMAKER —— FIXED TO RESPONSIVE

#### FIXED TO RESPONSIVE — PLANNING

#### 1. Determine what content is extra

- Does that h1 need an h2 under it?
- Will that one-liner get the visitor to understand my site or is it extra?

#### 2. Determine what content needs to be visible

Is it necessary to show my entire nav if there are other ways of getting to navigation?

#### 3. Identify Extra Styling

Do my columns need a border if they're stacked?



#### **ACTIVITY**



#### **KEY OBJECTIVE**

Learn how to analyze a web page in order to be able to redesign it responsively.

#### **TYPE OF EXERCISE**

• Groups of 2-3

#### **TIMING**

10 min Create a sketch of Startup Matchmaker for a mobile devices.

# STARTUP MATCHMAKER —— LAB TIME

#### FIXED TO RESPONSIVE — EXECUTION

- 1. Convert widths to percentages
- 2. Size fonts in ems/rems
- 3. Make layout/styling updates for different screen sizes using media queries



#### **ACTIVITY**



#### **KEY OBJECTIVE**

Practice using media queries to achieve a responsive design.

#### TYPE OF EXERCISE

Individual/partner

#### **TIMING**

- 20 min 1. Size fonts in ems/rems
- 2. Make layout/styling updates for different screen sizes using media queries
- 3. Write JS that makes the mobile nav open and close when clicked.
  - 4. **BONUS**: Work on developers and designers pages

### **LEARNING OBJECTIVES**

- Learn how to analyze a web page in order to be able to redesign it responsively.
- Practice using media queries to achieve a responsive design.

## HOMEWORK

## EXIT TICKETS