## RESPONSIVE BASICS

#### **RESPONSIVE BASICS**

#### **LEARNING OBJECTIVES**

- Describe responsive design.
- Apply media queries to achieve a responsive layout.

#### **WEEKLY OVERVIEW**

WEEK 4 Responsive Design / CSS Positioning WEEK 5 Forms / Final Project Lab WEEK 6 JS Intro

#### **AGENDA**

Review

Responsive — Layout Design

Responsive — Media Queries

Lab

## FINAL PROJECT OVERVIEW

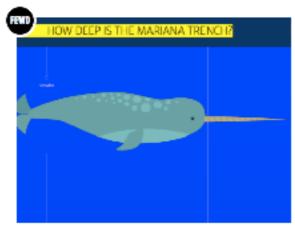
#### WHERE CAN I FIND PAST EXAMPLES?



Front End Web Development

All Cities

LOGIN







DEPTH OF THE MARIANA TRENCH INC.
by Calie Myers-Wood

HELEN MACDOUGALL 5D by Helen MacDougall

ONLINE PORTFOLIO LA by Tara Beiser







#### Portfolio Sites





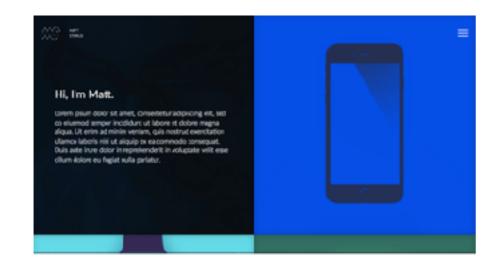
Hi there! We are

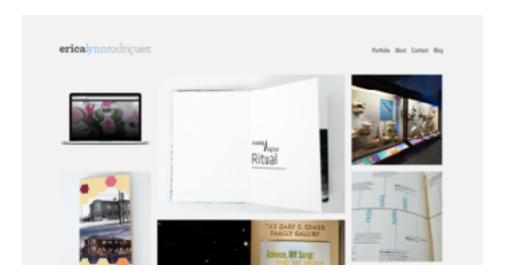
#### QUICK Honderox

a creative endio hell-best on creating great experiences. We work with hig organizations with tricky problems, small startups with great items and overyone inherences.

COURS LIKE YOU

Then find out more about an or we what we can do for you.



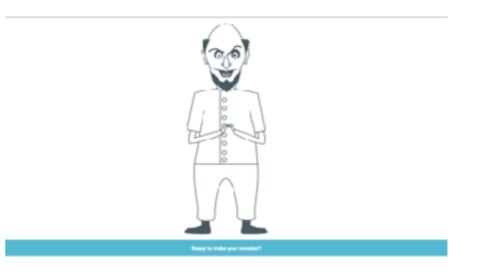


Sites about hobbies or sites just for fun/practice.









Redesign an existing site for family/friends or just any business with an ugly site :)

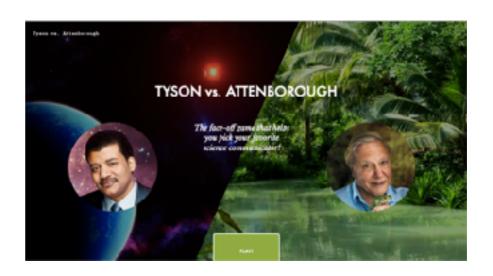




#### Quiz Site / Game

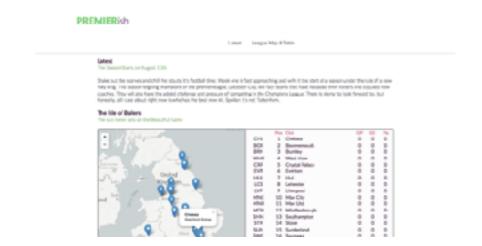








#### PROJECTS TYPES IF YOU WANT A CHALLENGE







#### WHERE YOU SHOULD BE

- Start planning homework this week will be to wireframe out your project
- Take a look at the final project gallery for some inspiration
- ▶ Look at some sites on <u>Site Inspire</u> for inspiration

#### **RESPONSIVE BASICS**

## REVIEW

### FLEX CONTAINER —— REVIEW

#### **DISPLAY: FLEX**

We can set display: flex on the parent container to start the flex magic.

```
parentSelectorHere {
   display: flex;
}
```

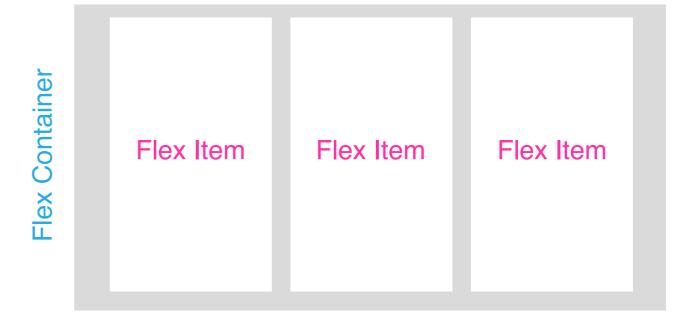
#### **WHAT IS FLEXBOX?**

#### parent wrapper: flex container

## Flex Container

#### **WHAT IS FLEXBOX?**

#### direct children: flex items



#### **REVIEW ACTIVITY**



#### **KEY OBJECTIVE**

▶ Review HTML/CSS Layouts

#### TYPE OF EXERCISE

Individual/Partner

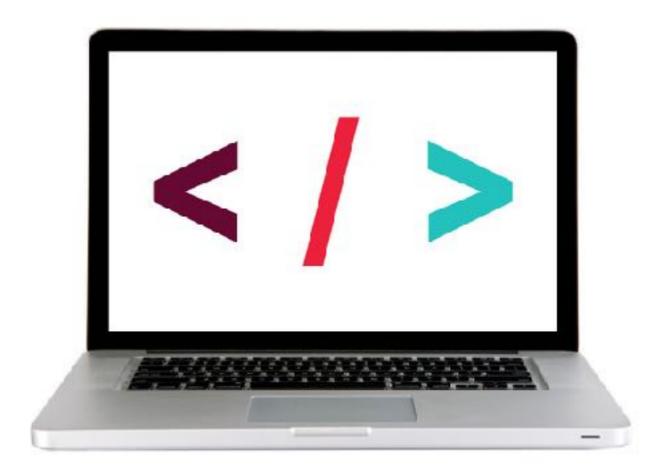
#### **TIMING**

- 1. Open starter code > albums
- 2. Use HTML and CSS to recreate albums\_1.png
- 3. Use the grid systems like we learned!

#### **RESPONSIVE BASICS**

## RESPONSIVE — LAYOUT DESIGN

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



https://generalassemb.ly/

#### **RESPONSIVE DESIGN**

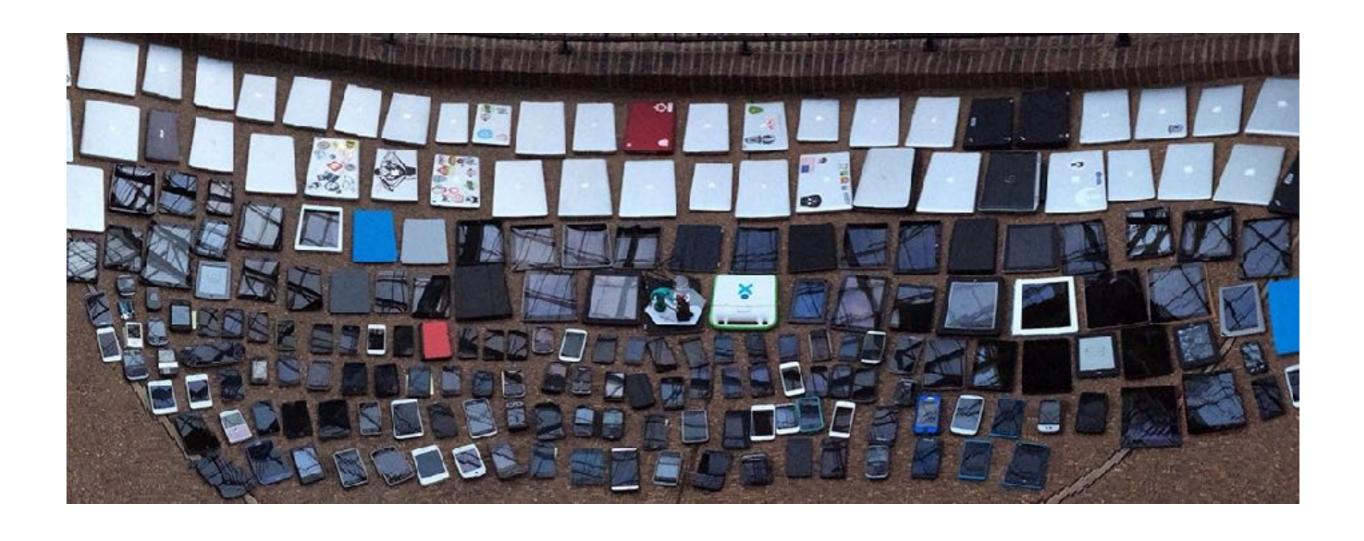
"Day by day, the number of devices, platforms, and browsers that need to work with your site grows. Responsive web design represents a fundamental shift in how we'll build websites for the decade to come."

- Jeffrey Veen

#### **RESPONSIVE DESIGN**



#### **RESPONSIVE DESIGN**



#### **RESPONSIVE LAYOUT**

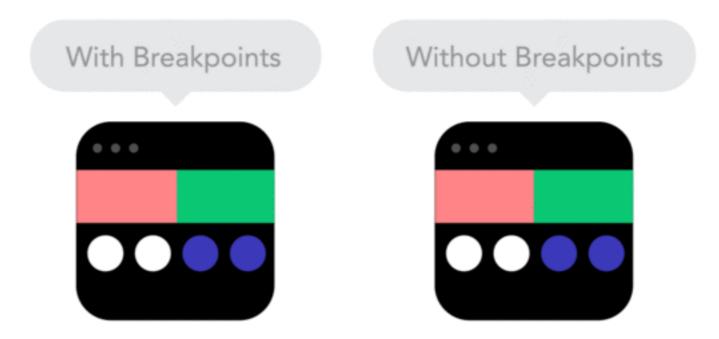
- Uses PERCENTAGES for widths
- Use MEDIA QUERIES to control design and content as it scales down or up with the browser or device

# Here's my awesome header "Well for our northern friend, Dame Isabella's Inquisition wanes in Lima,' Isaghed 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 seilor, 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 snow the proverb all along this coast—"Corrupt as Lima." It but beers out your saying, too; churches more pleatiful than billiand-tables, and for ever open—and "Corrupt as Lima." So, too, Venice; I have been there; the boly city of the blessed evangelist, St. Mark!—St. Dominic, purge it! Your cup! Thanks: here I refill; now, you pour out again.'



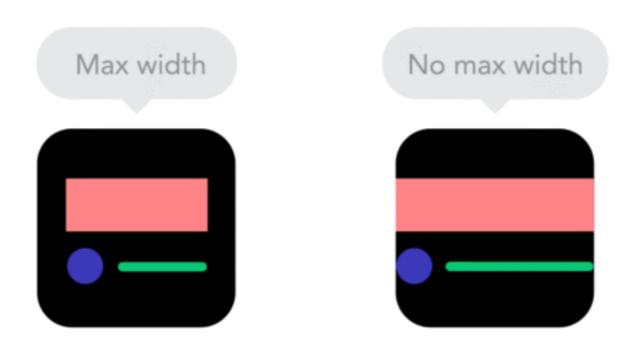
# Here's my awesome header "Well for our northern friend, there bubbleks logistation women in Linux/ larged Don Scharten. Proceed, denor." "A manuscrit Partient ortical another of the compage. In the name of all as Limese. I but desire to express to you, It had become Journaying, bug sharches more plentiful than billiert tables, and the over open—and Dorrupt to Limas' Se, ire, Verloe, I have been those, the holy sity of the bissed evengelie. St. Marke 18. Dennish, purge iff Your and James: been I red it now, you you not again."

#### WITH BREAKPOINTS VS. WITHOUT BREAKPOINTS



Gif credit: Fast Company

#### MAX-WIDTH — A HELPFUL TOOL FOR LAYOUT



Gif credit: Fast Company

#### **TURN AND CHAT**

- ▶ What makes a site responsive?
- ▶ What types of widths should we use for a responsive site?
- ▶ What can we add to our stylesheets to rearrange content, show or hide content, etc. for smaller screens?

#### **RESPONSIVE BASICS**

## RESPONSIVE — MEDIA QUERIES

#### **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

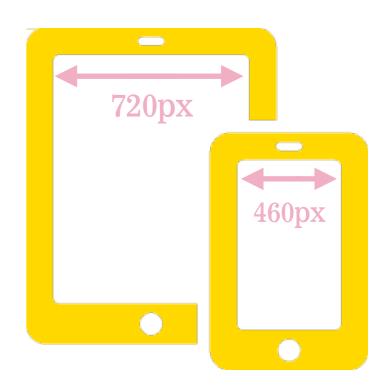
<meta name="viewport" content="width=device-width, initial-scale=1">

#### **MEDIA QUERIES**

Media queries allow us to add or change styles for elements based on:

- screen size (width or height of browser window)
- device orientation (portrait or landscape)
- display density (retina or non-retina)

With media queries, we can allow most of our styles to remain the same, while we make small tweaks for specific formats.



#### **ACTIVITY**



#### **KEY OBJECTIVE**

Review Flexbox / Preview Media Queries

#### **TYPE OF EXERCISE**

Individual/Partner

#### **TIMING**

1. Look at this <u>Codepen</u> with a partner and talk through steps 1 - 7.

#### **ADDING MEDIA QUERIES**

```
@media screen and (max-width: 600px) {
    section {
        width: 50%;
    }
}
```

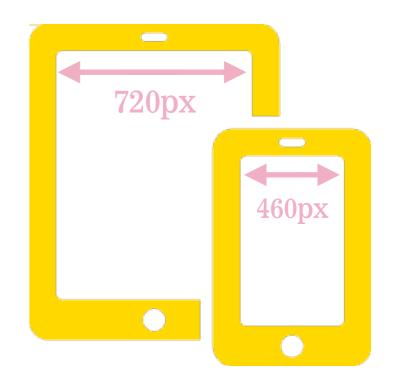
#### **MEDIA QUERIES** — SYNTAX

#### STYLES FOR COMPUTER SCREENS @media screen and (max-width: 600px) { section { width: 50%; **STYLES FOR PRINT** @media print { /\* All your print styles go here \*/ header, footer, nav { display: none;

#### MEDIA QUERIES — SYNTAX

#### MAX-WIDTH: SCREENS 600PX OR LESS

```
@media screen and (max-width: 600px) {
     section {
         width: 50%;
             MIN-WIDTH: SCREENS 600PX OR MORE
@media screen and (min-width: 600px) {
      section {
          width: 50%;
```



#### MEDIA QUERIES — ORDER

- 1. Place your media queries at the bottom of your stylesheet so they can override code that comes before them.
- 2. If you have multiple media queries, they should go from largest to smallest (max-width: 600 would be placed above max-width: 400)

```
@media screen and (max-width: 600px) {
    section {
        width: 50%;
    }
}

@media screen and (max-width: 400px) {
    section {
        width: 100%;
    }
}
```

#### **TURN AND CHAT**

- ▶ What are media queries? What can we change inside media queries?
- ▶ Where should we add media queries? Why is this order important?
- I have the two following media queries. How should these be rearranged? Can anything be removed?

```
@media screen and (max-width: 400px) {
    .hamburger {
          display: block;
    }
    section {
          width: 100%;
    }
}

@media screen and (max-width: 600px) {
    .hamburger {
          display: block;
    }
    section {
          width: 50%;
    }
}
```

### **ACTIVITY: MAKE ALBUMS SITE RESPONSIVE**



### **KEY OBJECTIVE**

▶ Apply media queries to achieve a responsive layout.

### TYPE OF EXERCISE

Individual / Partner

### **TIMING**

25 min

- 1. Use a media query to make the code look like albums\_2\_450.png on screen sizes 450px and smaller
- 2. Challenge: create versions for max-width of 660px and a max-width of 960px (images in starter code folder)

### **RESPONSIVE BASICS**

# LAB

### **ACTIVITY: MONUMENT LANDING - RESPONSIVE**



### **KEY OBJECTIVE**

Practice applying media queries to achieve a responsive layout.

### TYPE OF EXERCISE

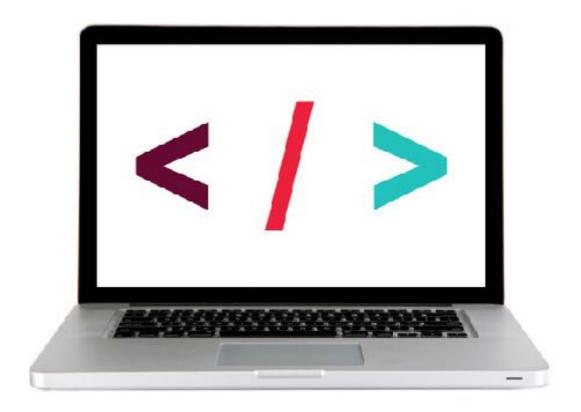
Individual/Partner

### **TIMING**

- 1. Open up your starter code > monument\_responsive.
  Think about what you should change as the screen size gets smaller.
- 2. Write media queries at the bottom of your CSS file to create a responsive version of the Monument Landing Page.

# GRID SYSTEMS — RESPONSIVE

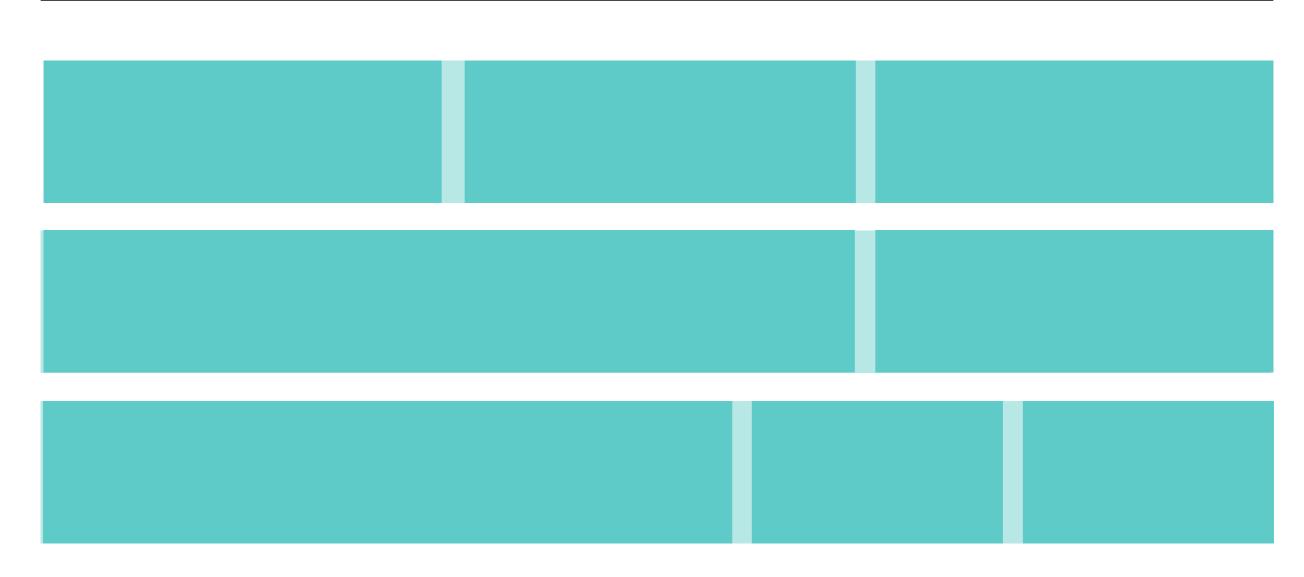
### **DEMO: GRID SYSTEMS**



https://codepen.io/larissam/details/oqMppQ/

# **ROWS**

## COLUMNS



### **ROWS**

Since all our rows will be set to display: flex; we can store this property in a class and apply it to any element to turn it into a row.

```
.row {
    display: flex;
    flex-wrap: wrap;
    margin-bottom: 20px;
}
```

Make sure to add "flex-wrap: wrap" to your row class!

### **COLUMNS**

We can create classes for the different options for column widths. We can then apply these classes to any flex item to set its width.

```
.col-1-4 {
    width: 25%;
}
.col-1-3 {
    width: 33.333333%;
}
.col-1-2 {
    width: 50%;
}
```

### **COLUMNS** — **RESPONSIVE**

We can then create classes for different screen sizes in a media query:

```
@media screen and (max-width: 970px) {
    .col-md-1-4 {
        width: 25%;
    }
    .col-md-1-2 {
        width: 50%;
    }
    .col-md-full {
        width: 100%;
    }
}
```

### **COLUMNS** — **RESPONSIVE**

We can then create classes for different screen sizes in a media query:

```
@media screen and (max-width: 750px) {
   .col-sm-full {
     width: 100%;
   }
}
```

### **COLUMNS** — **RESPONSIVE**

And finally, we can add any classes that apply to our HTML. We can add multiple classes to one element with a space-separated list:

<section class="col-1-4 col-md-1-2 col-sm-full">Content</section>

### **ACTIVITY - APPLY THE GRID CLASSES!**

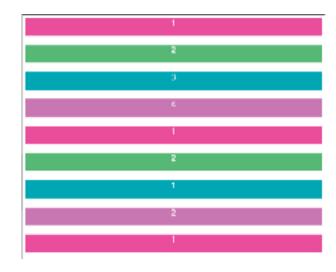
### Large (default) viewport:



### Medium viewport:



### Small viewport:



https://codepen.io/larissam/pen/gxRQrj?editors=1100#0

### **RESPONSIVE GRID SYSTEMS**

# LAB

### **ACTIVITY: PACIFIC BURGER - RESPONSIVE**



### **KEY OBJECTIVE**

Practice applying media queries to achieve a responsive layout.

### TYPE OF EXERCISE

Individual/Partner

### **TIMING**

- 1. Open up the code in starter code > pacific\_responsive
- 2. Add media queries and grid system classes "row", "col-2-3", "col-1-3", "col-sm-full", etc to create the responsive layouts in the mocks

### **WEEKLY OVERVIEW**

WEEK 4 Responsive Design / CSS Positioning WEEK 5 Forms / Final Project Lab WEEK 6 JS Intro

### **RESPONSIVE BASICS**

# **LEARNING OBJECTIVES**

- Describe responsive design.
- Apply media queries to achieve a responsive layout.

# EXIT TICKETS