

## **FEWD - RESPONSIVE BASICS**

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### **AGENDA**

- Review
- Responsive LayoutsREM/EMMedia Queries

### **REVIEW**

Let's bring HTML/CSS back into the equation.

## **RESPONSIVE LAYOUT**

## **RESPONSIVE SITES**

- View these websites on your mobile phone. What additional info would you want on desktop?
  - Generalassemb.ly
  - Dwolla.com
  - Relayrides.com



**BOXES** 



### FIXED VS RESPONSIVE

Checkout these **Fixed** sites

- UPS.com
- Boston.com
- Google.com
- Getaround.com

Checkout these **Responsive** Sites

- Generalassemb.ly
- Dwolla.com
- Sweethatclub.com
- Relayrides.com

### FIXED LAYOUT

- Relies on a container of fixed width
- Usually 960px or 980px

### **RESPONSIVE LAYOUT**

- Different styles for different screen widths
- Uses an elastic/fluid layout
- Fluid
- Sized in percentages
- Elastic
- Sized in ems

### EMS VS REMS - NEEDS MORE CLARITY

#### $\mathbf{EM}$

- Sized based on the width of the letter "m"
- Same as percentages\*. 1em=100% font-size
- http://alistapart.com/articles/howtosizetextincss
- Based on parent
- Parent{ font-size:16px;}
- Child{font-size:2em;}
- Child's font size is 32px

#### REM

- "Root" em. Same as em
- Caveat: Based on the font-size of html element

## MEDIA QUERIES

## MEDIA QUERIES - WHAT SHOULD BE IN CODE?

@media only screen and (max-width: xPx) (min-width: xPx) (max-device-width:xPx) (min-device-width:xPx)

For iPad:

(orientation: portrait) (orientation: landscape)

Separate multiple clauses with "and"

### **MOBILE DISPLAY**

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

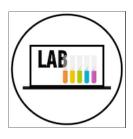
#### Why necessary?

- Mobile browser assumption of fixed layout of 980px
- Standard media queries sizes
- Small: up to 768pxMedium: 768-991px

• Large: 992px+

### **USAGE**

```
/*float boxes into columns*/
.box{
    float:left;
}
@media only screen and (max-width:768px){
    /*insert responsive css here
    ex: stack floated boxes
    */
    .box{
       float:none;
    }
}
```



## **RESPONSIVE BOXES**

## **OPTIONAL**

Grid layouts Transition (make media query changes smoother)

## **CSS3 TRANSITIONS**

# ADD AN EFFECT WHEN CHANGING FROM ONE STYLE TO ANOTHER

```
a {
    color: #D00;
    -webkit-transition: all 300ms;
} a:hover {
    color: #A00;
}
```

### **CSS3 TRANSITIONS**

# ADD AN EFFECT WHEN CHANGING FROM ONE STYLE TO ANOTHER

```
div {
    -moz-transition-property: width; /* Firefox 4 */
    -webkit-transition-property: width; /* Safari and Chrome */
    -o-transition-property: width; /* Opera */
    transition-property: width;
}
div:hover {
    width: 300px;
}
```