

#### Class 6







#### Overview

CSS Box Model Video + Review (30 min)

CSS Basics 2 (15 min)

Responsive Markup (30 min)

Break (10 min)

Responsive Markup Hands-On (1 hour)

Fonts & Media Queries Assignment (15 min)



# Finish Box Model Video



# Every element on the page is a box.



# Border/Padding/Margin



BORDER MARGIN PADDING



# Important Image CSS

img { max-width: 100%; }

I recommend adding this to every stylesheet.



# Important Box-Sizing CSS

Take padding and borders into account when calculating box size

\* {box-sizing: border-box}

I recommend adding this to every stylesheet.



### DIV and SPAN

Generic ways of grouping elements or words together to relate them or apply style.



### HTML 5 Elements

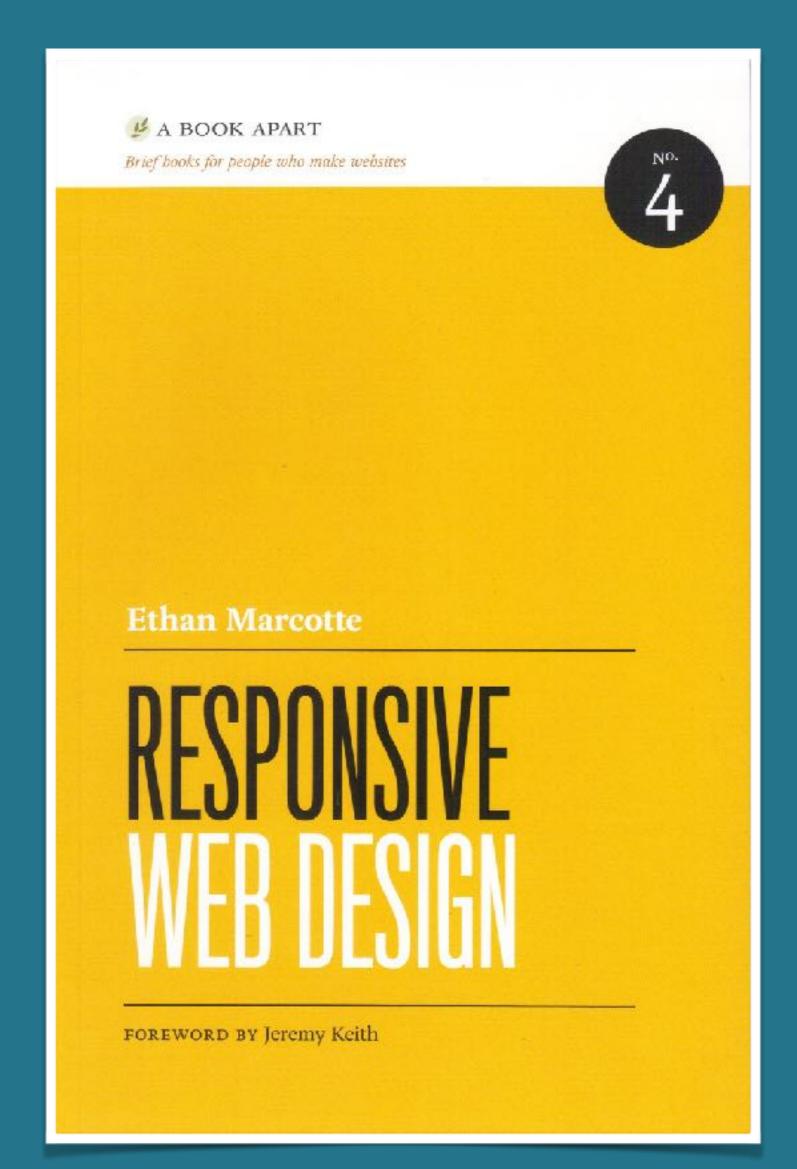
header footer nav (use ul) article

aside section hgroup figure



### CSS Basics 2 Review





### RWD Book



# Why does the concept of the canvas, used in print design, not translate well to the web?



# What challenges do separate mobile/tablet experiences present vs. using responsive design?



# Responsive Web Design

Percentage-Based Grids
Flexible Images
Media Queries



# Percentage-Based Grids

target / context = result

http://codepen.io/challahan/professor/EVEGMv

http://codepen.io/challahan/professor/WQzPbQ/?editors=1100



# Fluid Images

http://codepen.io/challahan/professor/yYKZbb/

```
img {
    max-width: 100%;
}
```



## Media Query

```
@media screen and (min-width: 600px) {
    /* CSS Styles That Apply Go Here */
}
@media screen and (max-width: 1200px) {
    /* CSS Styles That Apply Go Here */
}
```



## Media Query

```
@media screen and (min-width: 600px) and (max-width: 1200px) {
    /* CSS Styles That Apply Go Here */
}
@media screen and (min-height: 600px) {
    /* CSS Styles That Apply Go Here */
}
```



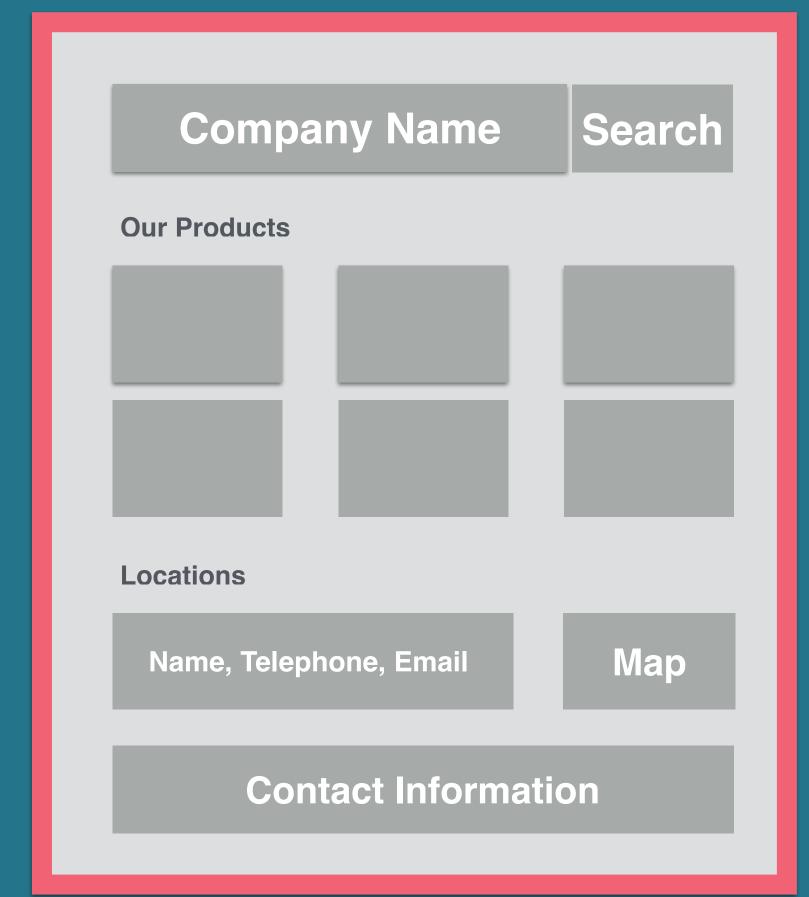
## Breakpoint

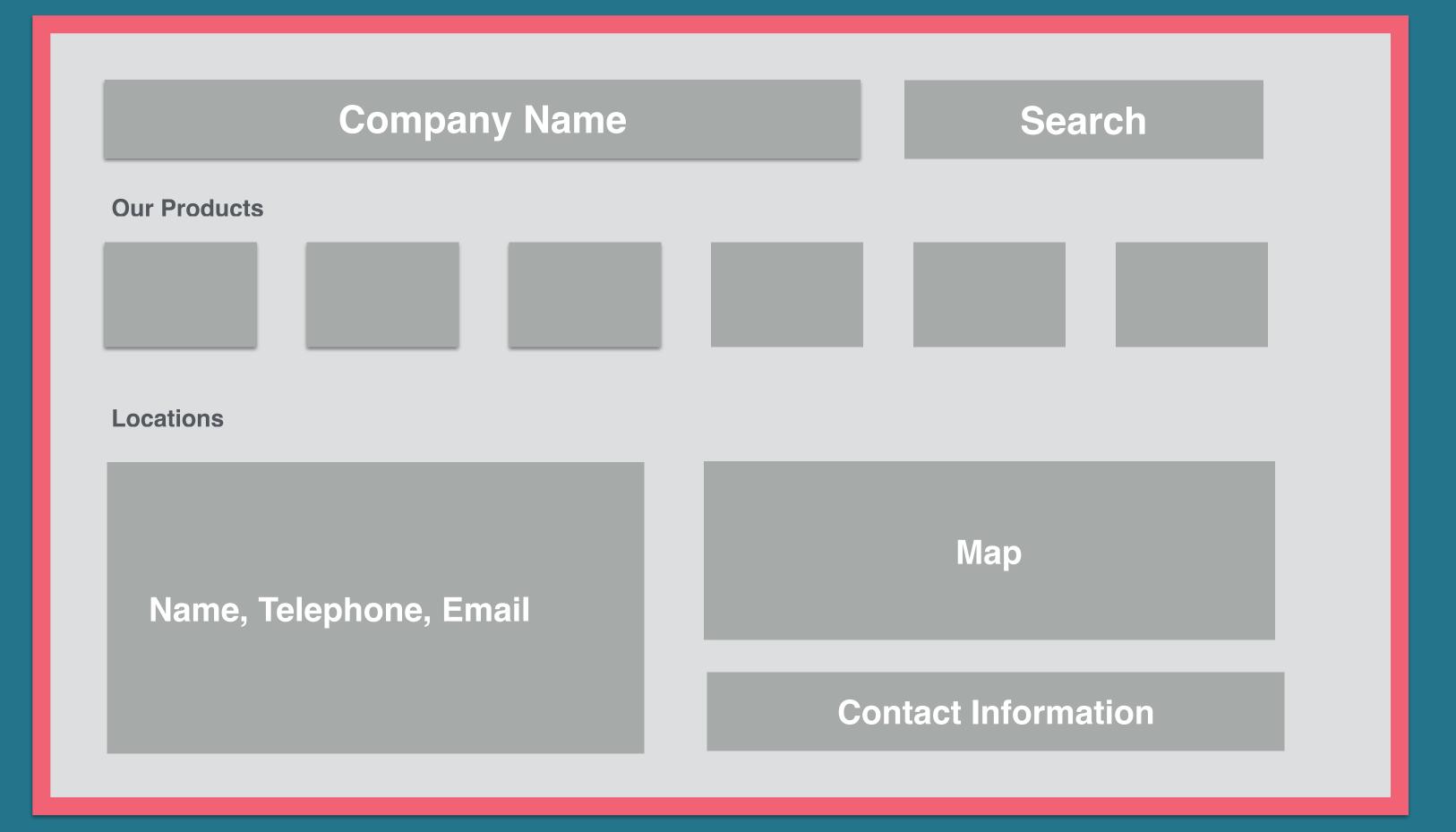
Size at which the page layout or design "breaks"

Can have multiple breakpoints per layout

Let design (not device) dictate breakpoints







#### A Breakpoint: 1000px wide



# Media Query

width
height
device-width
device-height
orientation
aspect-ratio

device-aspect ratio color color-index monochrome resolution scan



# Magic Meta Tag

<meta name="viewport" content="initial-scale=1.0, width=device-width" />

Example: http://codepen.io/challahan/professor/yYKZbb/



# http://codepen.io/challahan/professor/yawgyZ/



## No Media Query



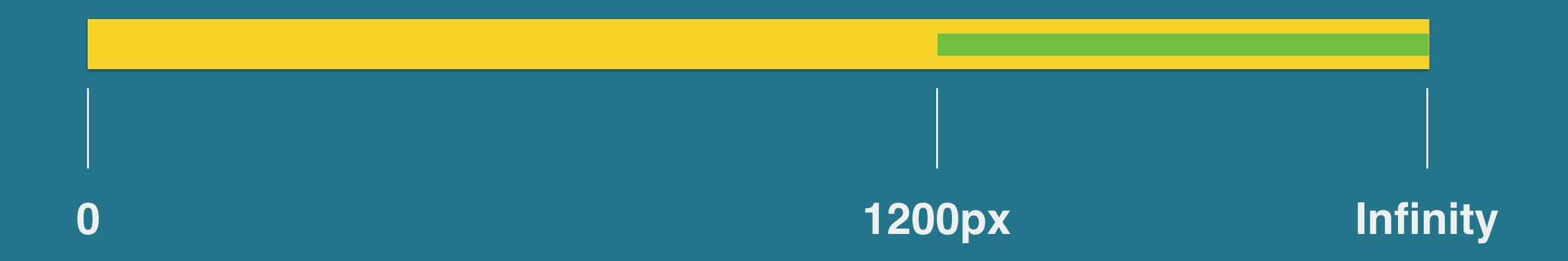


# @media screen and (max-width: 600px) { }



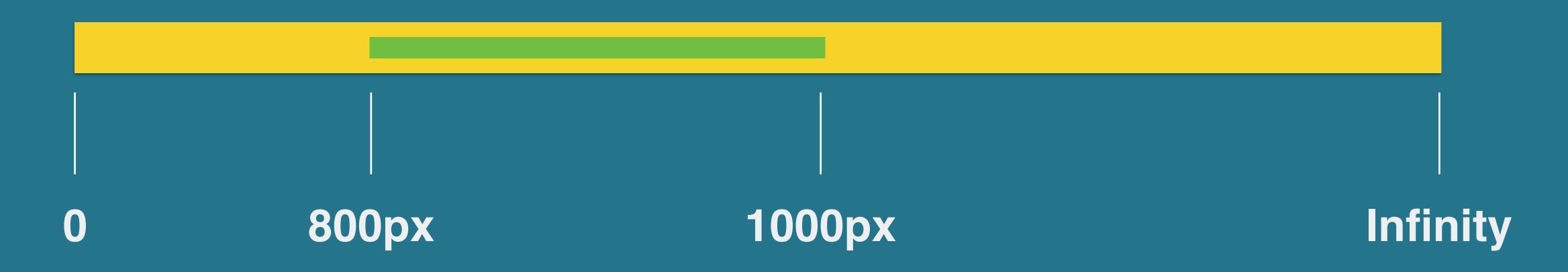


# @media screen and (min-width: 1200px) { }





# @media screen and (min-width: 800px) and (max-width: 1000px) { }





# @media screen and (min-height: 500px){}

Infinity ——

500px —

0



# @media screen and (max-height: 1100px){}

```
Infinity ——
```

1100px---

0 —



## Media Query

```
@media screen and (min-width: 600px) {
    /* CSS Styles Inside Here Only Apply at
    600px and higher*/
@media screen and (max-width: 1200px) {
   /* CSS Styles Inside Here Only Apply at
   1200px and lower*/
```



# Media Query

```
@media screen and (min-width: 600px) {
       color: purple;
@media screen and (max-width: 1200px) {
      color: purple;
```



# Targeting Elements with CSS



### Use Element Type Selector

```
In HTML
 Hello
      In CSS
p {
   font-weight: bold;
```



#### Descendant Selector

```
In HTML
<a href="#">Hello</a>
            In CSS
      pa{
         font-weight: bold;
```



### ID and Class

Ways to identify elements so that you can make changes to just those elements.



# ID: unique element

Water and air. So very commonplace are
these substances, they hardly attraction
attention and yet they vouchsafe our very
existence.

Every time I view
the sea I feel a sense of calming
security, as if visiting my ancestral
home; I embark of a voyage of seeing.

Mystery of mysteries, water and air are
right there before us in the sea.



# Class: Multiple Elements

```
For a one-year period from November
2010, the Marugame Genichiro-Inokuma Museum of
Contemporary Art (MIMOCA) will host...
Each will showcase works by the artist thematically
contextualised under the headings...
Hours: 10:00 - 18:00 (No
admittance after 17:30)
```



#### Use a Class

```
In HTML
```

```
<pcle><pcle>class="hello">Hello
```

```
In CSS
.hello {
   font-weight: bold;
}
```



### Mix Elements and Classes

```
In HTML
```

```
In CSS
p.hello {
   font-weight: bold;
}
```



#### But There's More!

You'll use these much less frequently, but know that they're available.



# Additional CSS Selectors

```
ID Selector: #introduction { }
```

```
Direct Child Selector: li > a { }
```

```
Adjacent Selector: h1+p { }
```

General Sibling Selector: h1~p { }



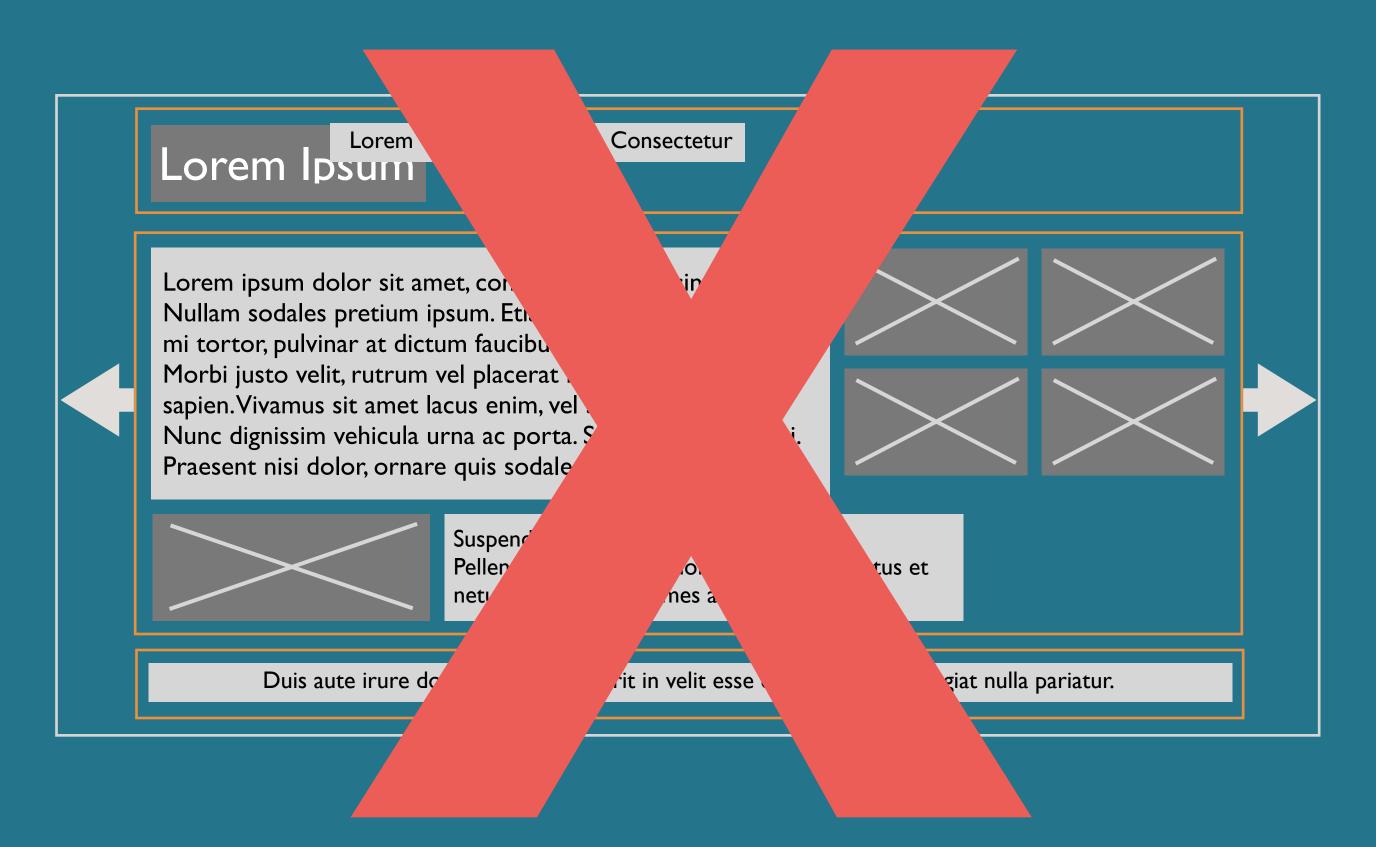
#### Creating Layouts



#### Fixed-Width (Pixel) Layouts

```
body {
  width: 960px;
  margin: 0 auto;}

.column1, .column2, .column3 {
  background-color: #efefef;
  width: 300px;
  float: left;
  margin: 10px;}
```

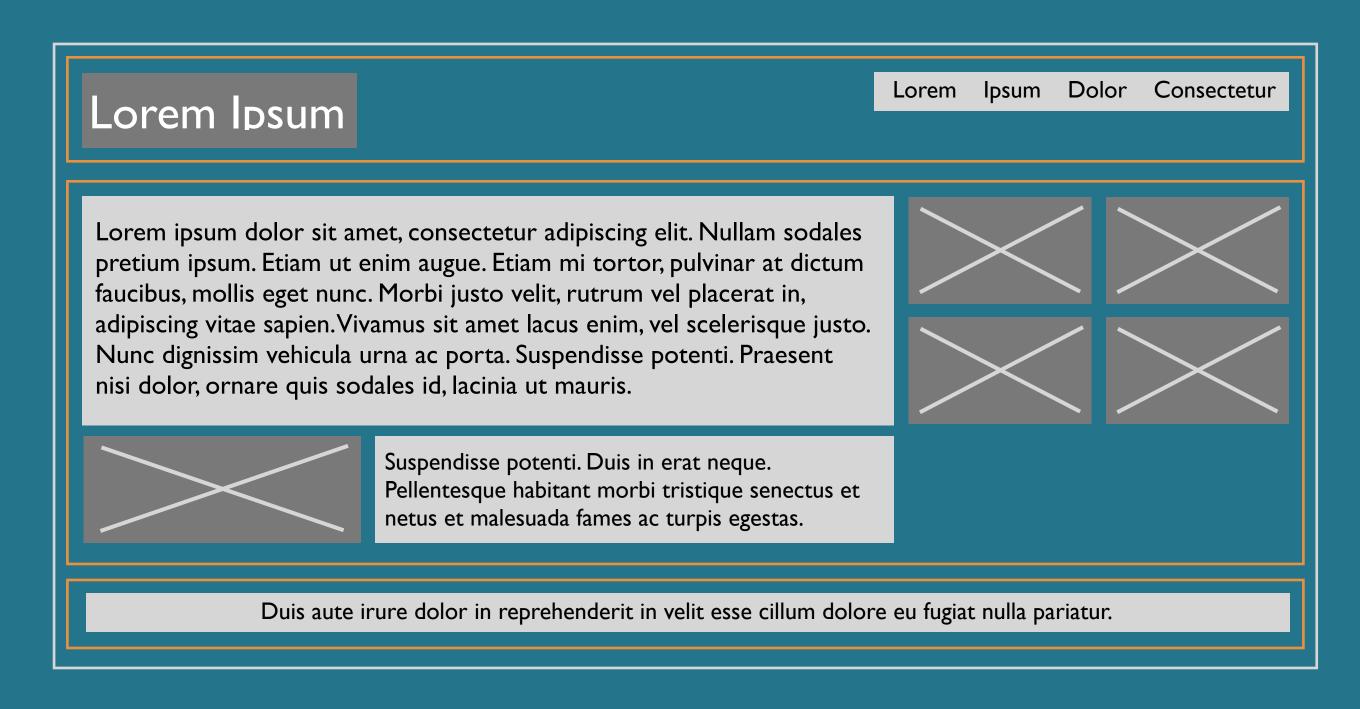




#### Liquid (Percentage) Layouts

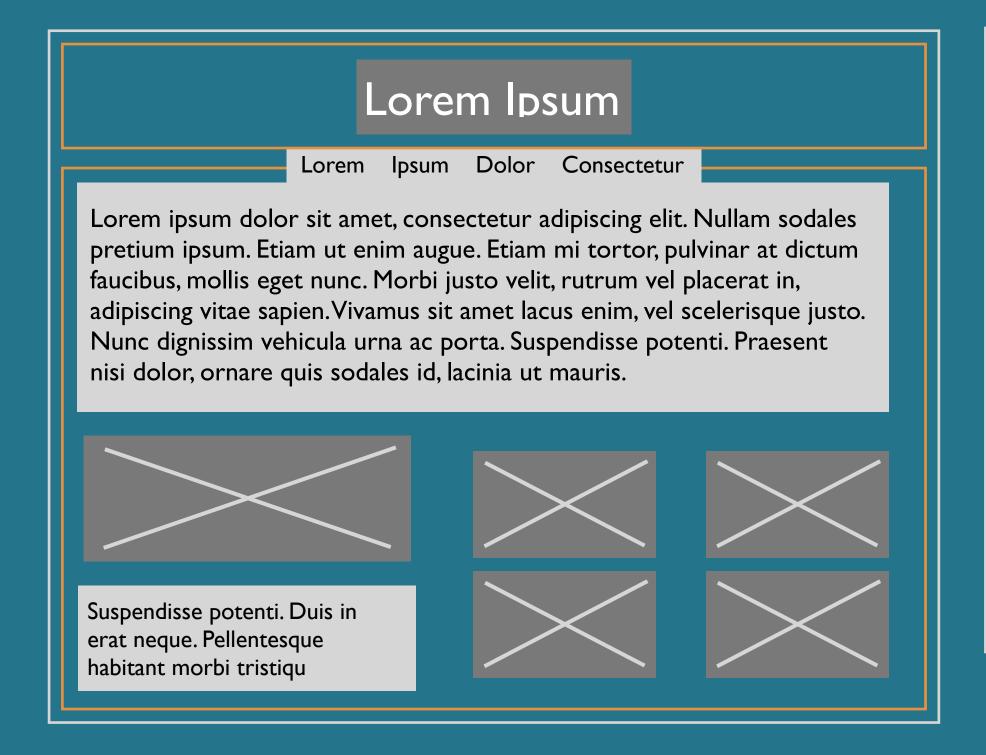
```
body {
  width: 90%;
  margin: 0 auto;}

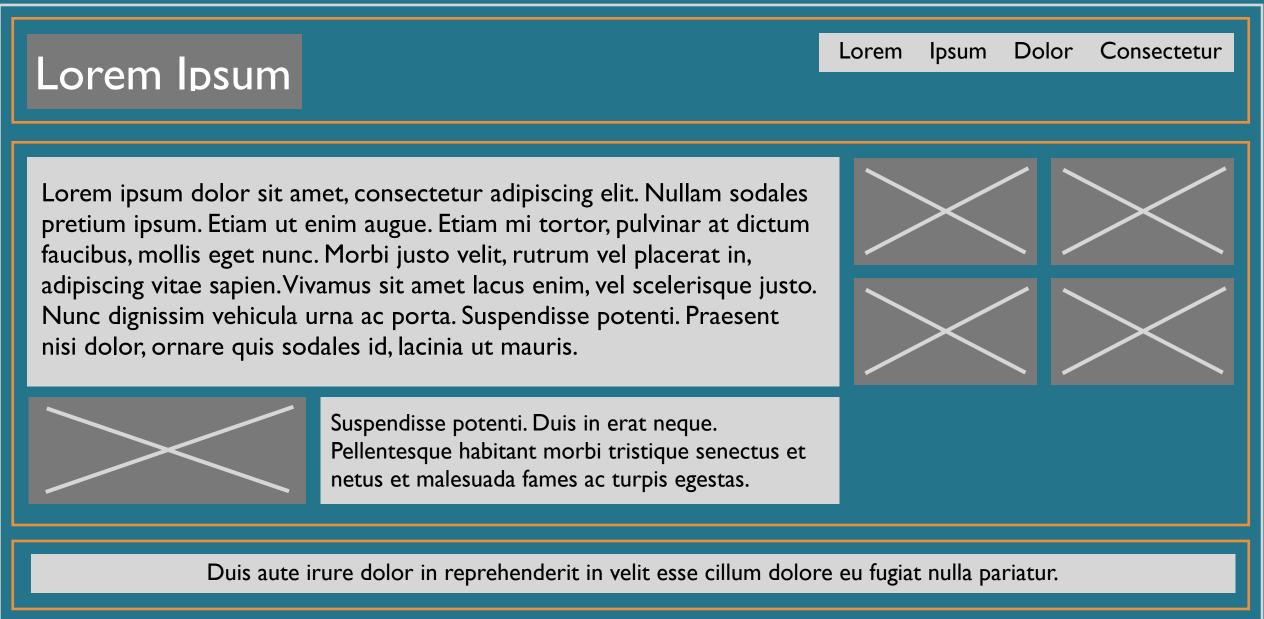
.column1, .column2, .column3 {
  width: 31.3%;
  float: left;
  margin: 1%;}
.column3 {
  margin-right: 0%;}
```





#### Responsive Layouts







### Hands-On Exercise

http://codepen.io/challahan/pen/ZLgPoR



## Fonts & Media Queries

Due Next Week



# For Next Class

READ: Flexbox Articles, Responsive Web Design Ch. 5

DUE: Fonts & Media Queries Assignment

