

FRAMEWORKS

A set of pre-made set of HTML / CSS / JS components packaged together.

Think of a framework as a bunch of plugins made by the same team, so they work nice together out of the box.

PROS / CONS

Pro:

- -Gives you lots of code
- -Grid-based design out of the box
- -Easy JS plugin architecture

Con:

- -Gives you lots of code
- -Bloats your site with stuff you probably won't use.
- -Design monotony

COMMON

FRAMEWORKS

Bootstrap:

http://getbootstrap.com/

Foundation:

http://foundation.zurb.com/

Material Design Lite:

https://getmdl.io/

MISUNDERSTANDINGS

"Oh man, I'm getting all this code for free so I don't have to spend as much time learning how to do things"

Frameworks will SLOW DOWN you down until you learn how to use them. Careful with how you use these.

BOOTSTRAP

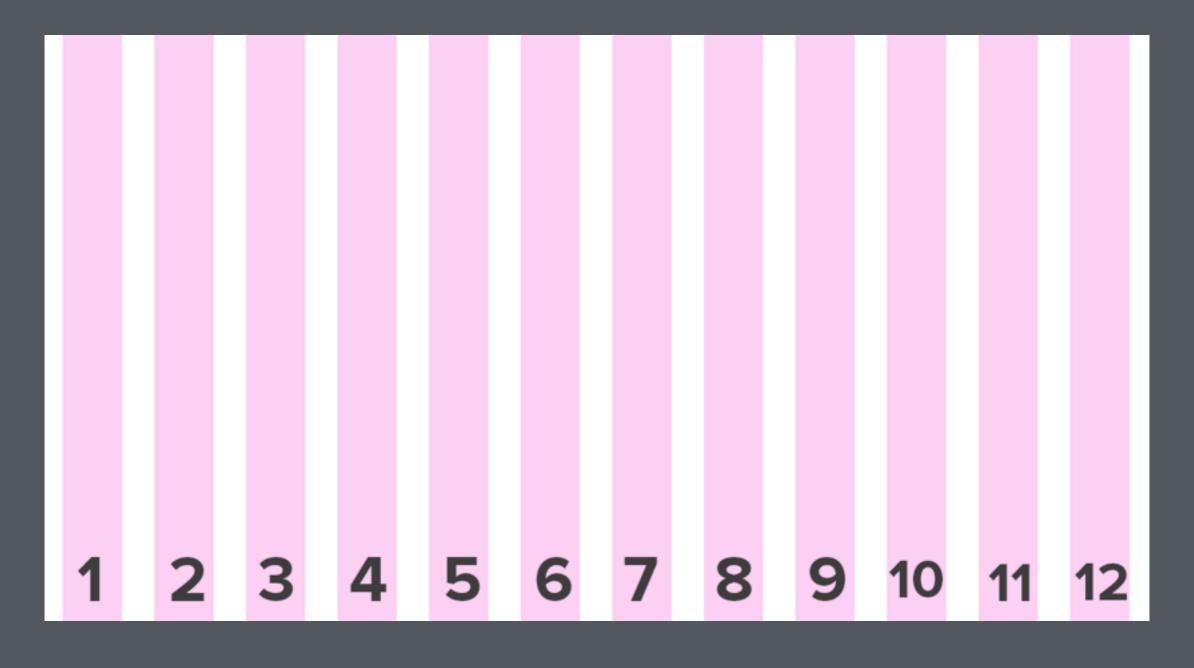


http://getbootstrap.com

- -The most popular framework
- -Known for responsive grid and JS plugins
- -Omnipresent around the web

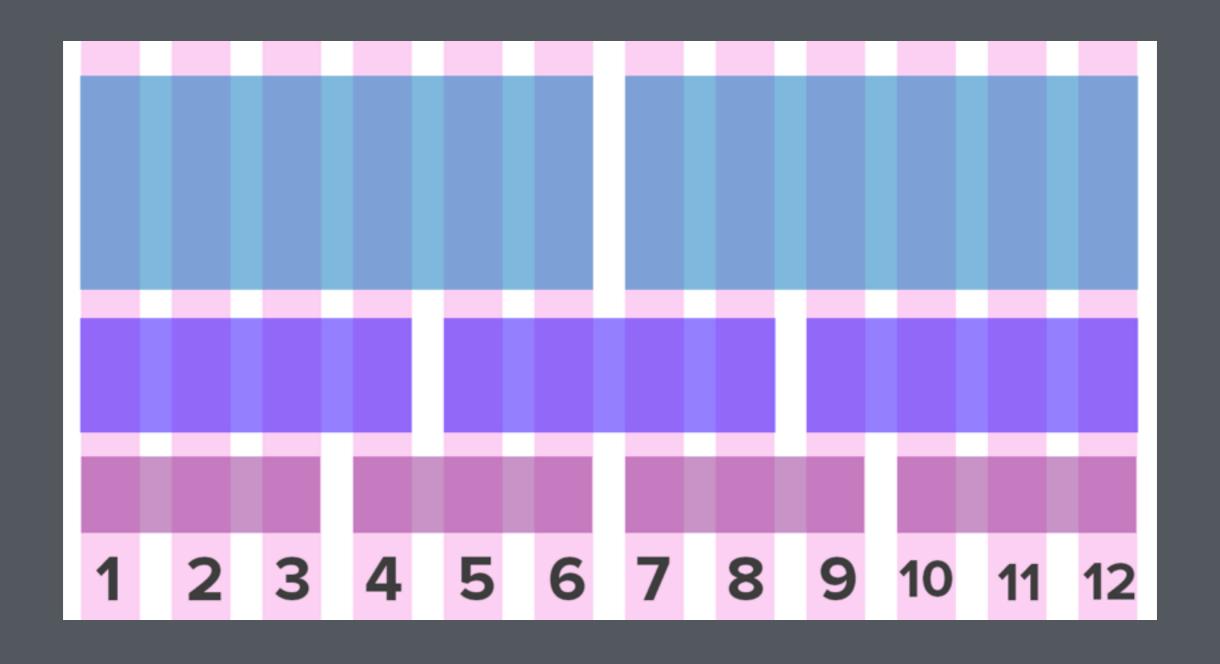
GRID-BASED DESIGN

-Bootstrap sets up a series of 12 columns that automatically respond to screen size.



BOOTSTRAP GRID

-You can create boxes that clip into the grid and take up 1-12 columns



BOOTSTRAP GRID

All content should be placed within grid columns. Build column classes using the following formula:

```
col-{screen-size}-{width}
```

Examples of Bootstrap column classes:

```
<div class="col-md-6">
```

⇒ A div for medium-sized screens that is 6-columns wide

```
<div class="col-xs-2">
```

⇒ A div for x-small screens that is 2-columns wide

BOOTSTRAP RULES

-Boxes must be placed into (.row) to create horizontal groups of columns. The boxes column widths must equal 12, same way floated layouts must equal 100% width. Why?

-.row must be placed within a .container (fixed-width) or .container-fluid (full-width) for proper alignment and padding.

BOOTSTRAP LAYOUT

Structure is very similar to what we've done:

```
<div class="container">
```

⇒ Top-level element; holds all other code

```
<div class="row">
```

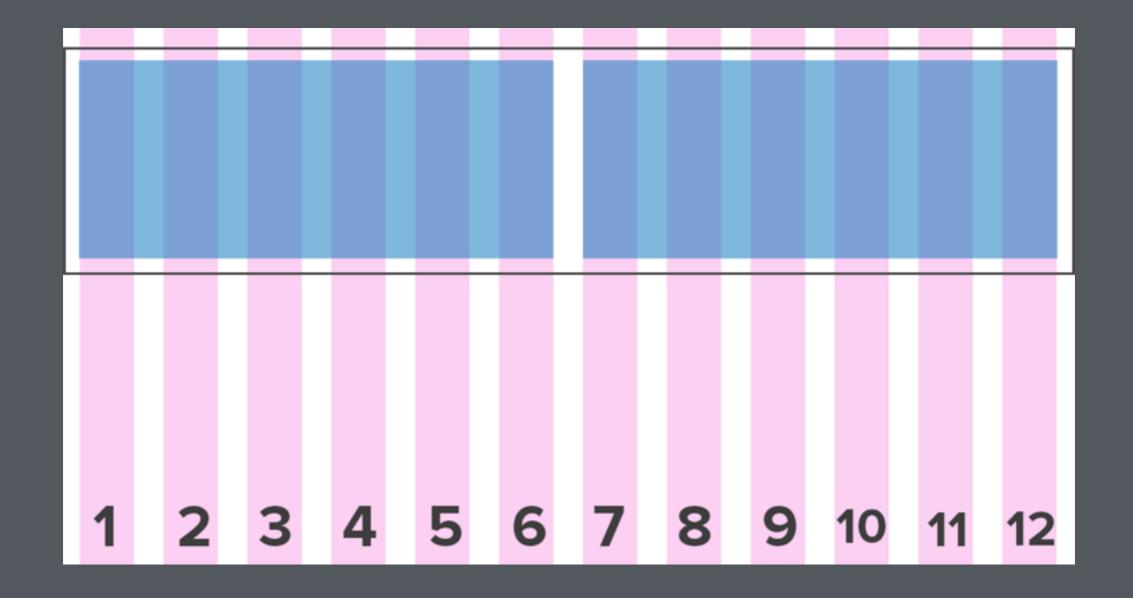
- ⇒ Horizontal row used to hold col's
- ⇒ Must be children of container's

```
<div class="col-">
```

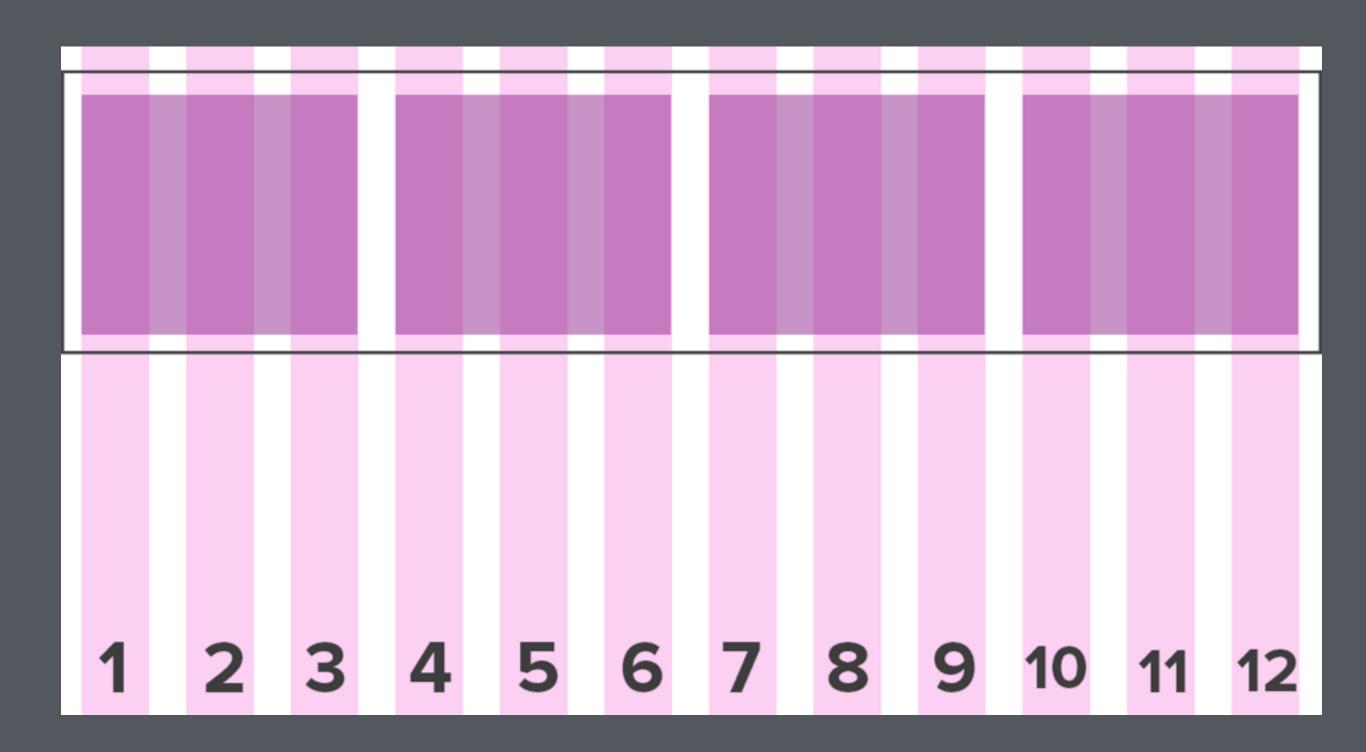
- ⇒ Used to hold content (text/images/etc.)
- ⇒ Must be immediate children of row's

ALL TOGETHER

A bit verbose but this is how you Bootstrap:



HOW WOULD WE DO IT?



CODE ALONG

Assignment #1



BOOTSTRAP NAV

Bootstrap has some built-in navigation classes that are tricky to get the hang of: http://getbootstrap.com/components/ #navbar-default

BOOTSTRAP NAV

You can stick it to the bottom / top of the page easily:

BOOTSTRAP NAW

You can stick it to the bottom / top of the page easily:

CODEALONG

Assignment #2

RESPONSIVE IMAGES

It's this easy:

.img-responsive

This gives us the following code:

```
max-width: 100%;
height: auto;
```

What do those styles do for us?

STYLIZED IMAGES

Check out these puppies:

```
<img src="puppy.jpg" class="img-
rounded" alt="Rounded Puppy">
<img src="puppy.jpg" class="img-
circle" alt="Circle Puppy">
<img src="puppy.jpg" class="img-
thumbnail" alt="Puppy Thumbnail">
```

img-rounded creates rounded rectangles;
img-circle turns images into circles;
img-thumbnail puts a nice border on images

BUTTONS

Default Primary Success Info Warning Danger

http://getbootstrap.com/css/#buttons

```
<!-- Standard button --> <button type="button" class="btn btn-default">Default</button>
```

We can change button color and size very easily, follow that link.

TRY IT OUT

Assignment #2

SEE BOOTSTRAP JS

Assignment #3 + #4

NEXT TIME

Wed: Analytics, Time for Projects Final Project JS Draft - WED