

# BOOTSTRAP





# 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

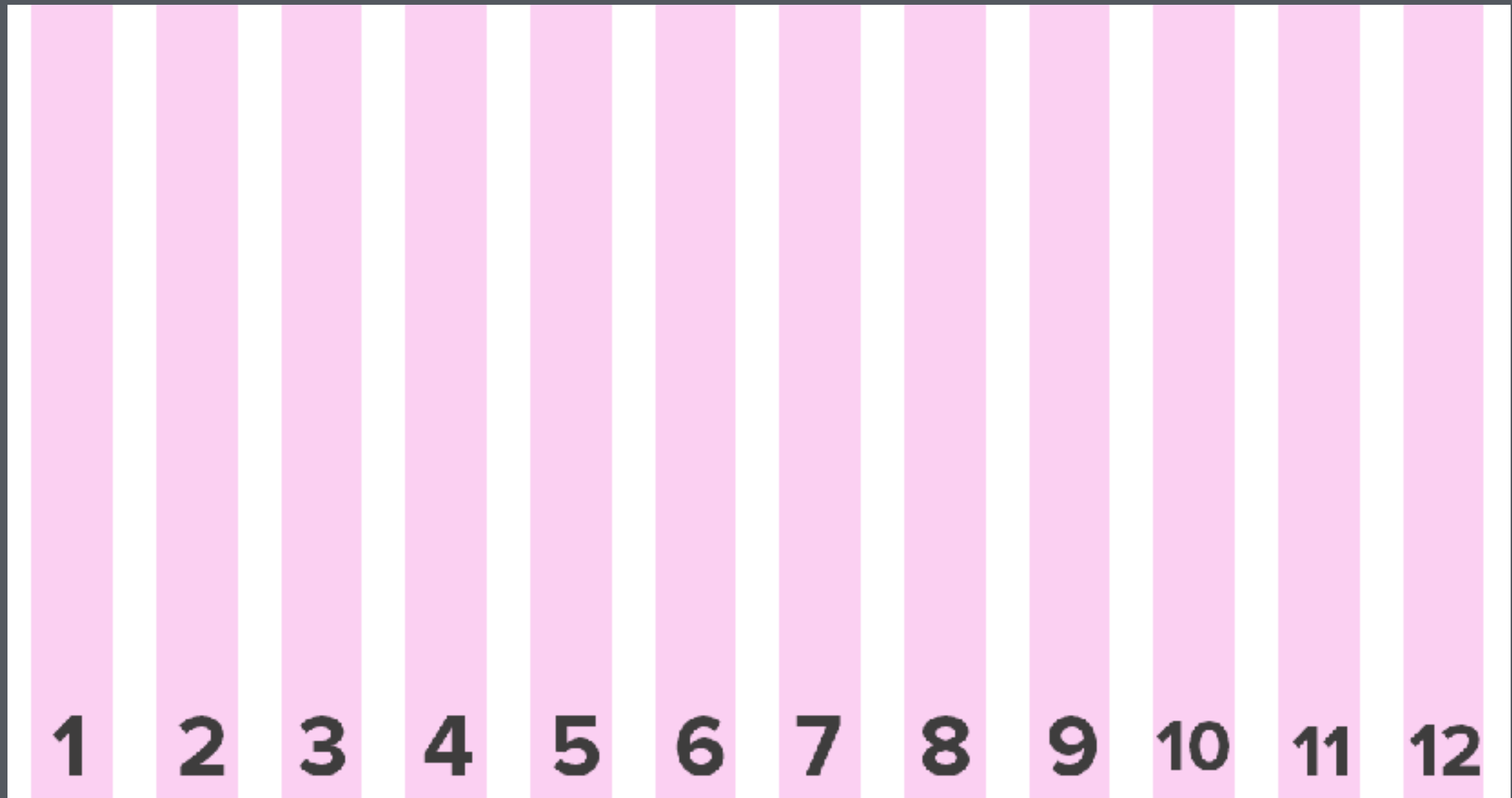


<http://getbootstrap.com>

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

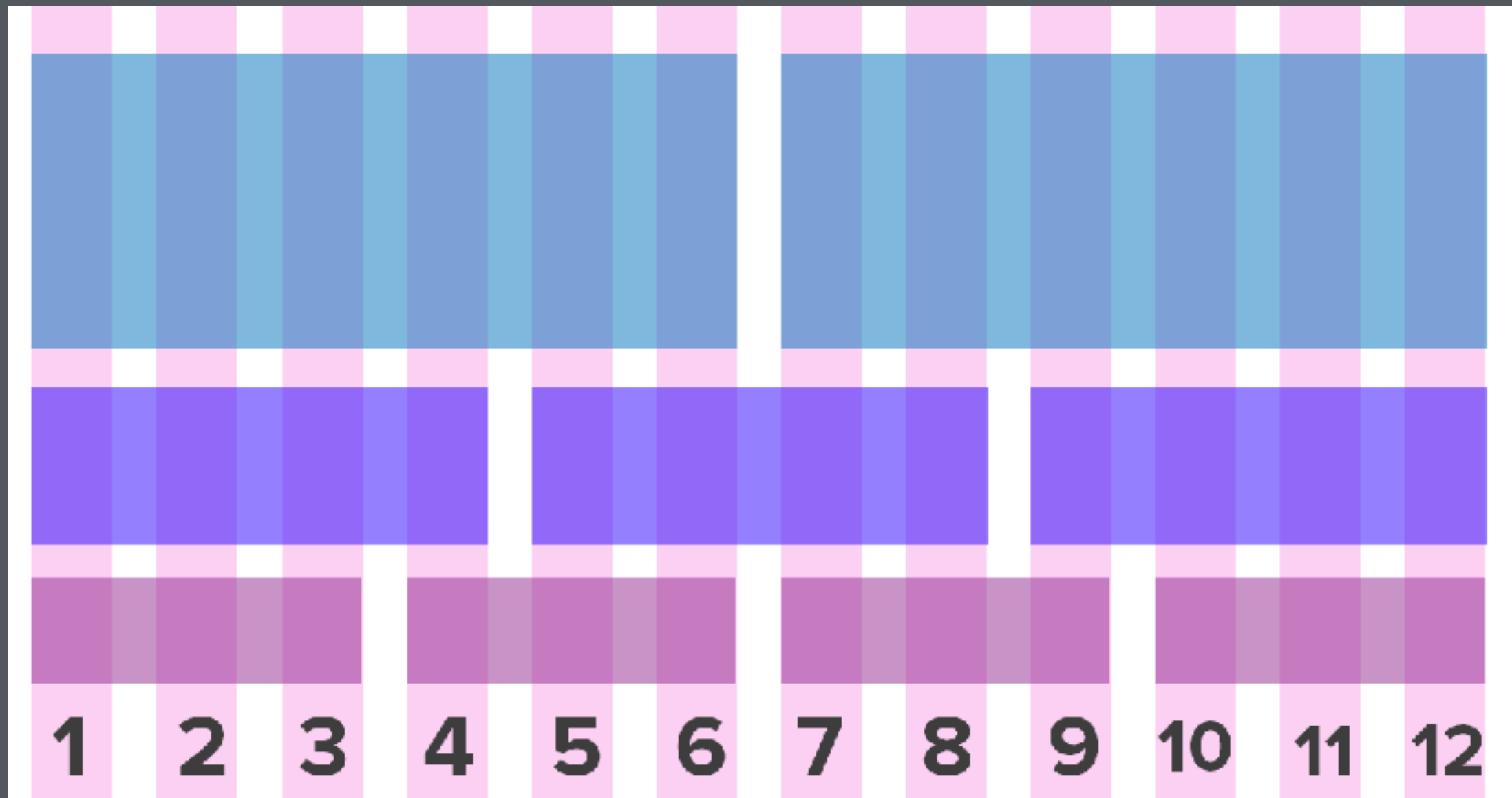
# GRID-BASED DESIGN

-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.)

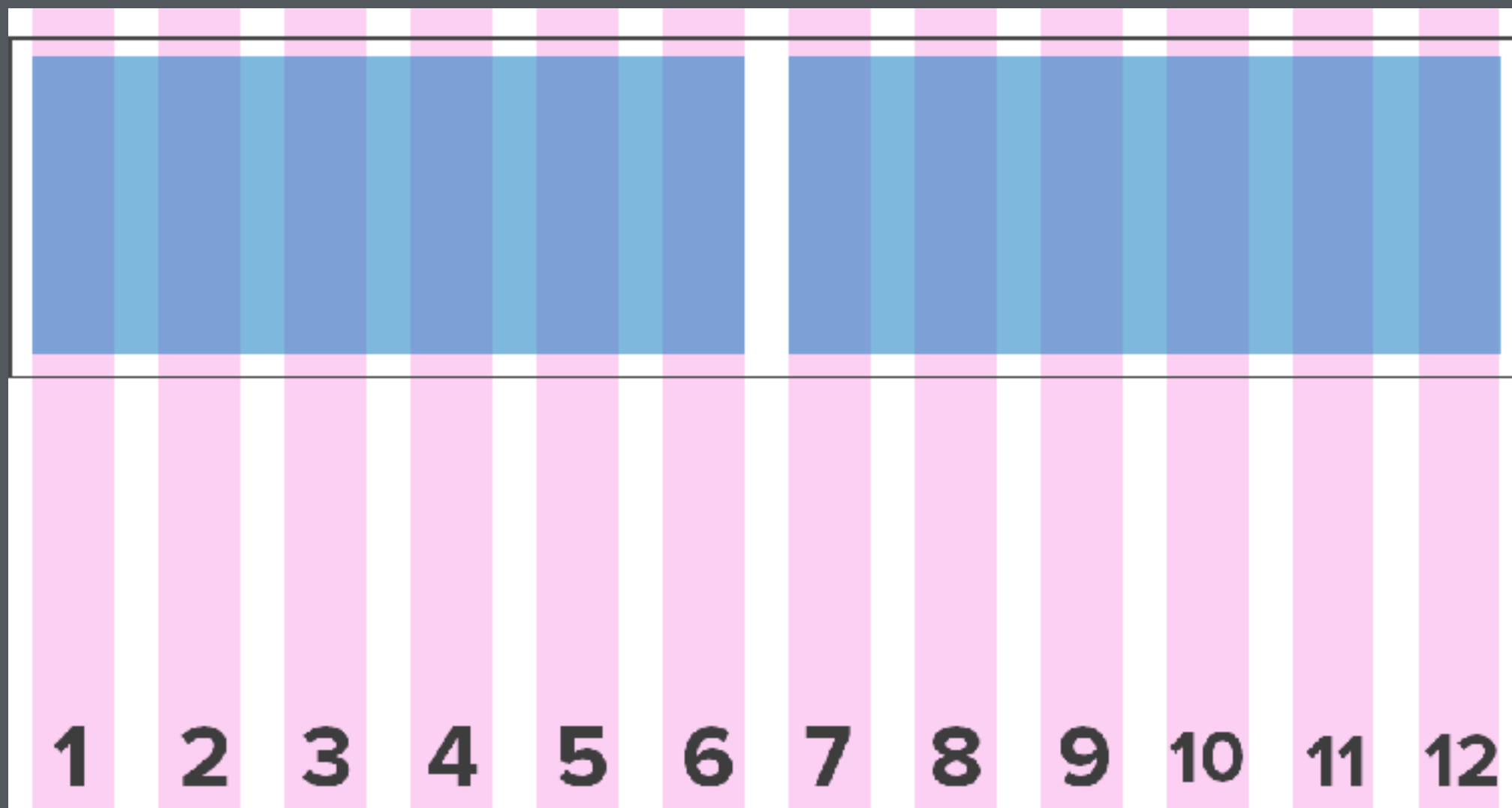
⇒ Must be immediate children of row's

# ALL TOGETHER

A bit verbose but this is how you Bootstrap:

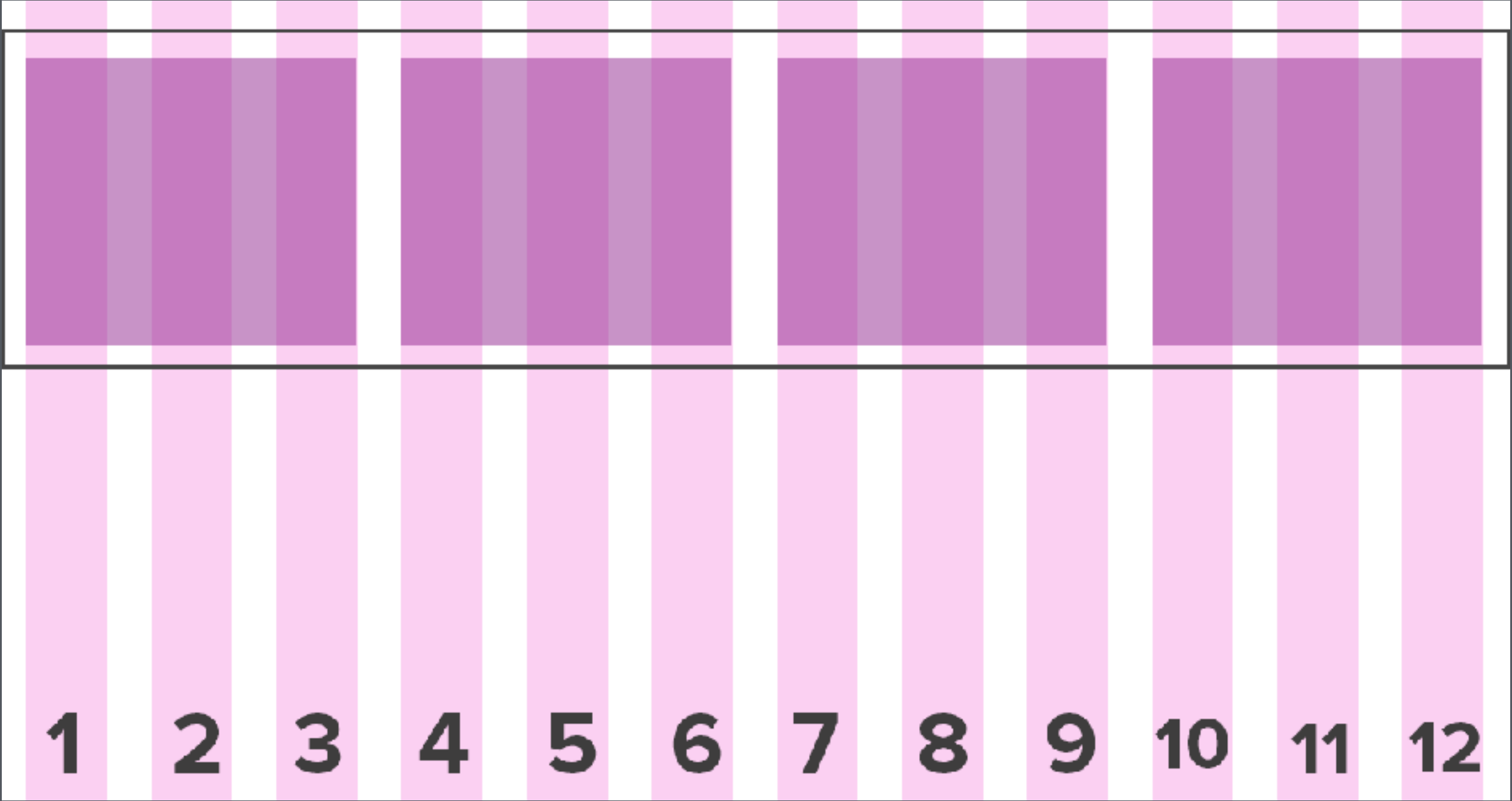
```
<div class="container">  
  <div class="row">  
    <div class="col-">  
      Your content here.  
    </div>  
  </div>  
</div>
```





```
<div class="container">  
  <div class="row">  
    <div class="col-md-6">Content here</div>  
    <div class="col-md-6">Content here</div>  
  </div>  
</div>
```

# HOW WOULD WE DO IT?

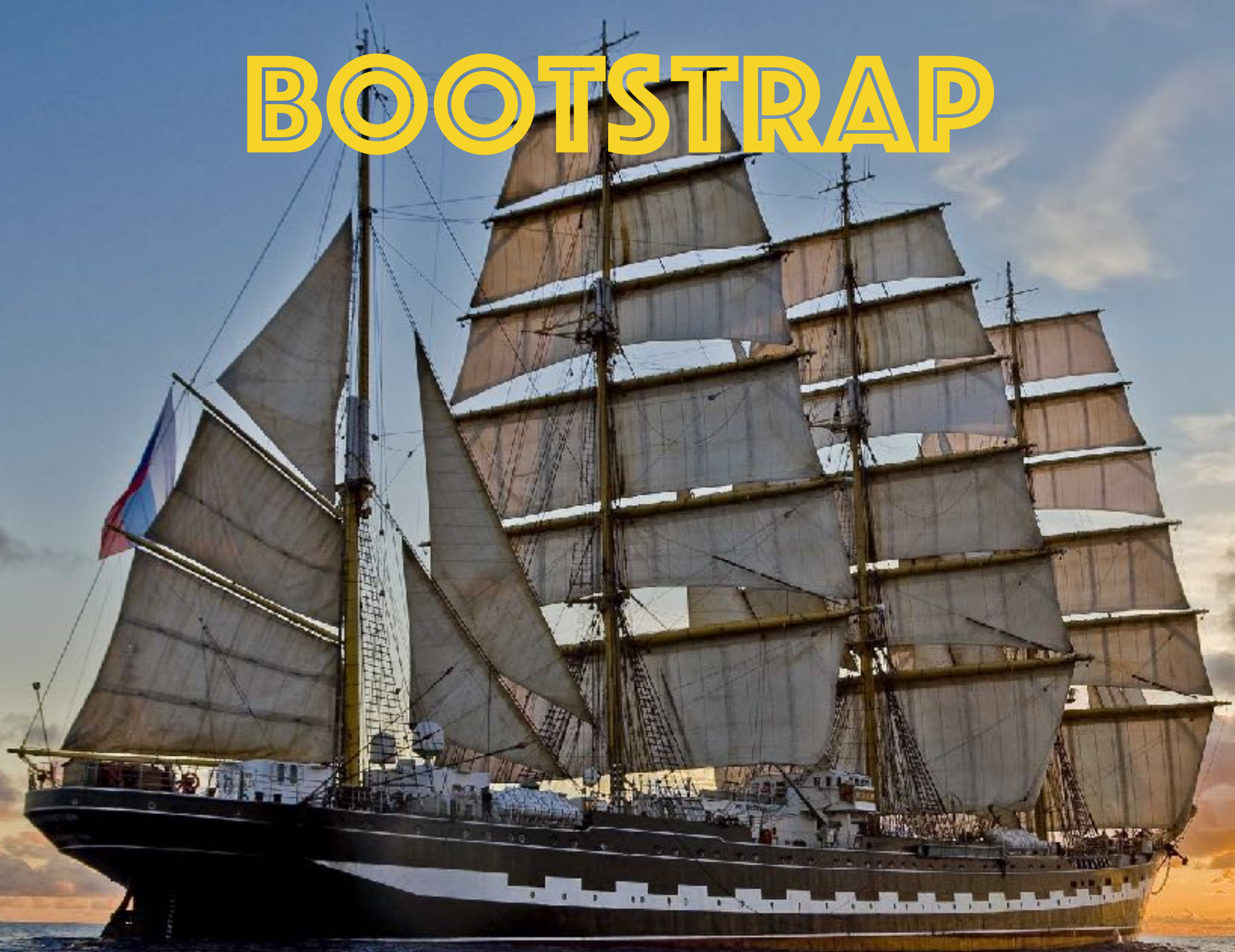


# CODE ALONG

Assignment #1



# BOOTSTRAP



# NAVIGATION



# BOOTSTRAP NAV

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

```
<nav class="navbar navbar-default"
  role="navigation">
  <div class="container">
    ...
  </div>
</nav>
```

# BOOTSTRAP NAV

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

```
<nav class="navbar navbar-default  
navbar-fixed-bottom"  
role="navigation">  
  <div class="container">  
    ...  
  </div>  
</nav>
```

# BOOTSTRAP NAV

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    ...  
  </div>  
</nav>
```

# CODE ALONG

## 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?

# STYLISTED IMAGES

Check out these puppies:

```
  
  

```

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

# BUTTONS



<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