

Getting Started with the Grid System

CREATING A RESPONSIVE LAYOUT WITH BOOTSTRAP GRID



Shawn Wildermuth

MICROSOFT MVP, SPEAKER AND INSTRUCTOR

@shawnwildermuth <http://wilder minds.com>



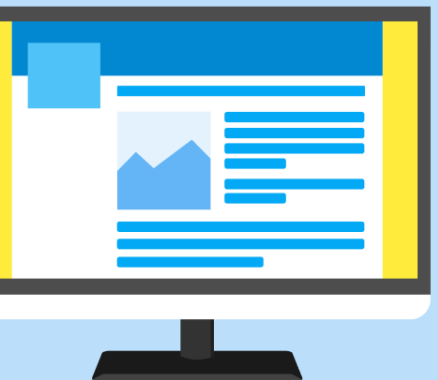
Overview



Getting Started with the Grid System

- Why the Grid System is useful
- What is the Grid System
- Using Containers
- Using Rows
- Using the Grid
- Understanding Grid Flow





Website Structure

- Though every website is different...
- ...need a way to layout.



Covid-19. Your local resource.

Set your location and log in to find local resources and information on Covid-19 in your area.

Zip code
12345

Set location

LIVE UPDATES: Coronavirus | TRENDING: Pride | Elijah McClain | Severe weather | Travel restrictions | Saharan dust | 'Dixie' explainer | Wirecard

He found his cure, now he's looking for Covid-19's



COURTESY DR. DAVID FRUGENIUM

He saved his own life with a repurposed drug. Now, he's reviewing every drug used against coronavirus. Here's what he's found so far.

[Track the spread](#) | [Your questions answered](#) | [Mask mandates](#)

5 states report highest number of coronavirus cases in one day

Laura Coates: This is proof that this country is in crisis



Measures to protect Trump from coronavirus scale up even as he seeks to move on

Senator says Wyoming is more worthy of statehood than DC

Opinion: The three women who should be at the top of Biden's VP list

People close to Biden's VP search say these are four of the leading prospects

Analysis: Biden's running mate pick matters more than ever

Watch Dr. Sanjay Gupta's response to Mike Pence's false virus claim



A biracial woman says she was set on fire. Authorities are investigating the incident as a hate crime

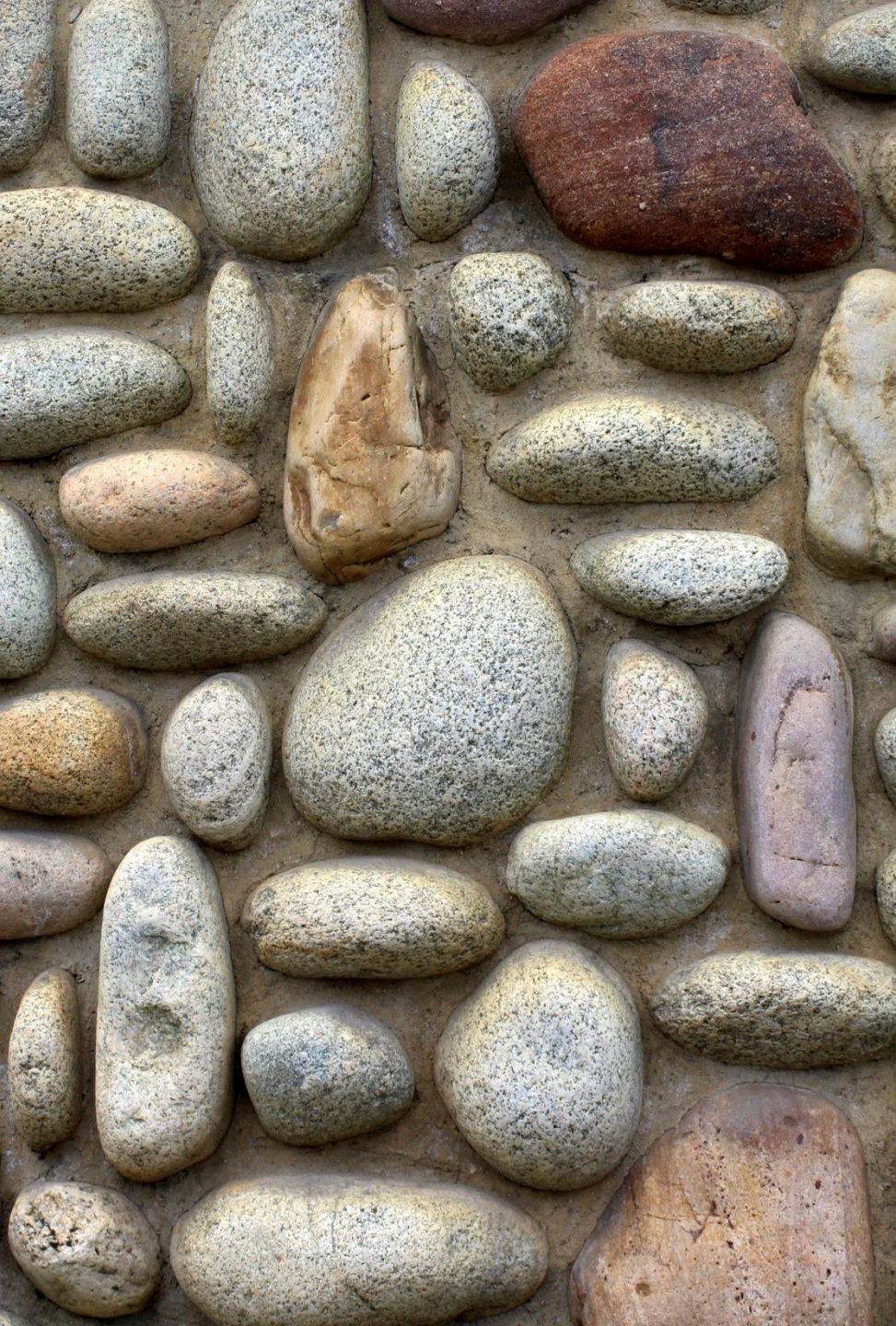
The Northeast will see severe thunderstorms and possibly a tornado today

'It's complicated': Florida voter explains why his vote may change

Three people died and one is permanently blind after drinking hand sanitizer

Science by press release: When the story gets ahead of the science

More than 200 people get infections linked to



Need a Framework for Layout

- Bootstrap Grid
- Based on CSS Classes
- Allows you:
 - solve common layout
 - follow common metaphors

Demo



A Basic Website





Containers

- First Part of a Layout
- Defines a page size
- Used usually around major sections



Demo



Using Containers



Auto Columns

.row

.col

.col



Auto Columns

.row

.col	.col	.col
------	------	------



Auto Columns

.row

.col	.col	.col	.col
------	------	------	------



Demo



Using the Auto Columns



Grid System

1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12

--

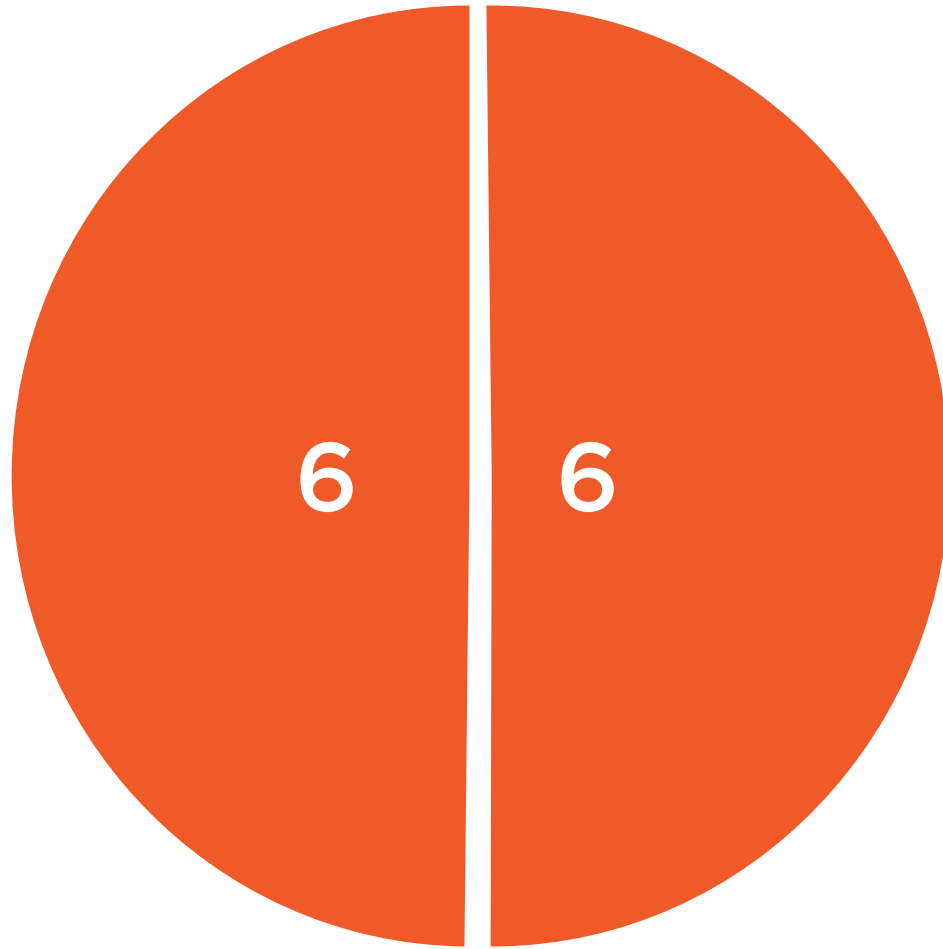


Why 12?

12



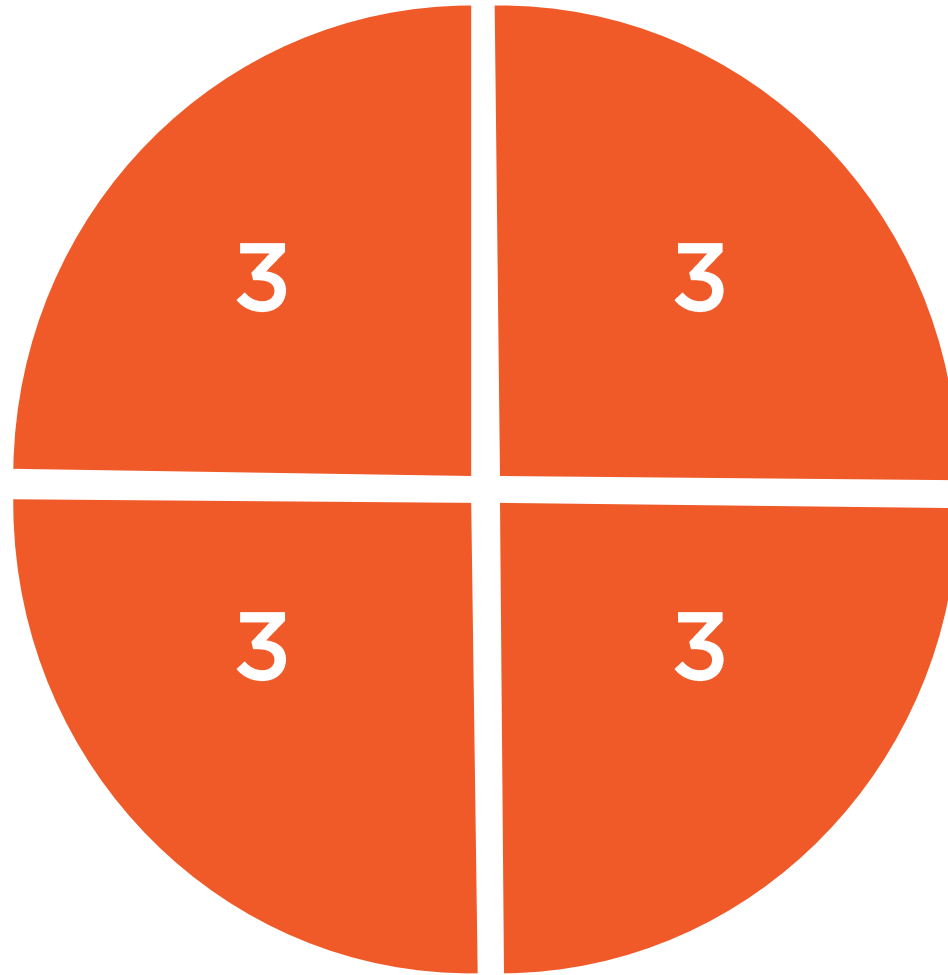
Why 12?



Why 12?



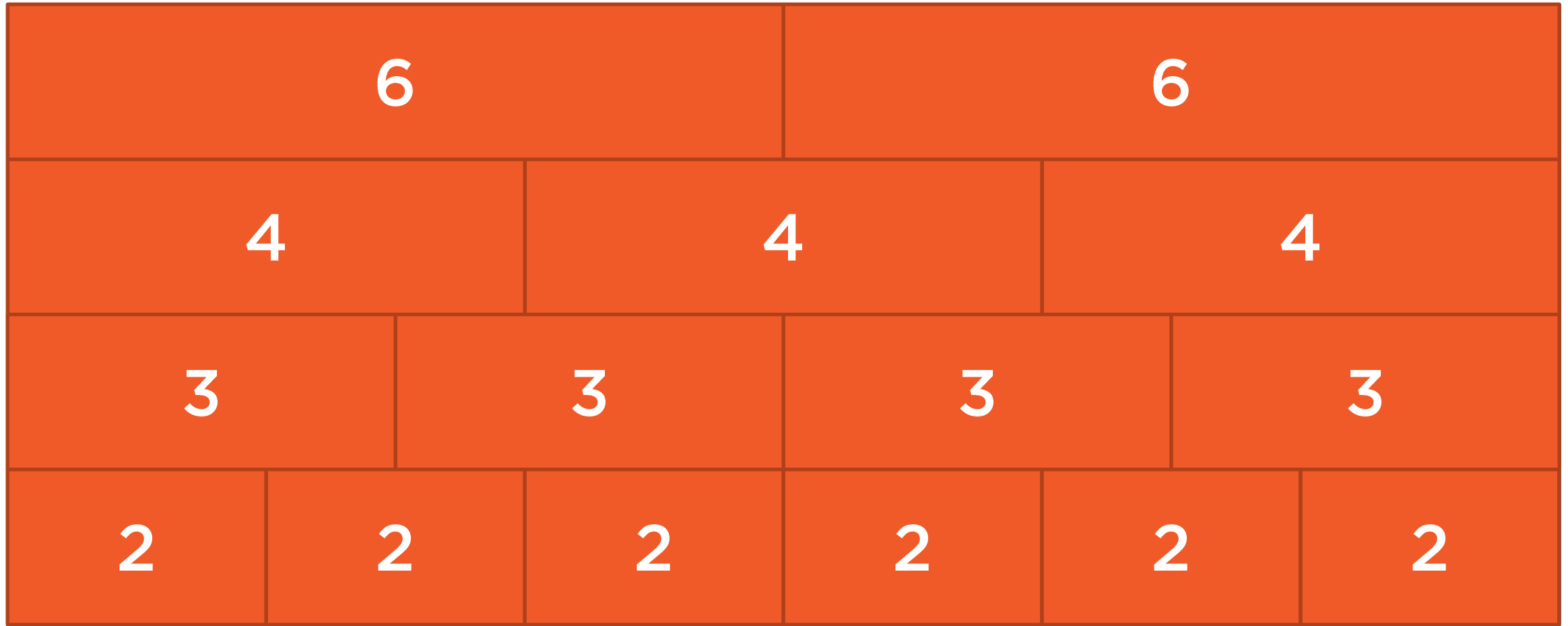
Why 12?



Why 12?



Grid System



Demo



Using Grid Sizing



Column Flow

col-4

col-4

col-4



Column Flow

col-2

col-4

col-4

col-4



Column Offsets

col-2

col-6 offset-4



Demo



Flowing with Grid



Rows

.row

Content

Gutters/Margins

Gutters/Margins



Padding in Layout

`.p-1 // padding (all)`

`.pl-1 // left`

`.pr-1 // right`

`.pt-1 // top`

`.pb-1 // bottom`

`.px-1 // left and right`

`.py-1 // top and bottom`

Margin in Layout

`.m-1 // margin (all)`

`.ml-1 // left`

`.mr-1 // right`

`.mt-1 // top`

`.mb-1 // bottom`

`.mx-1 // left and right`

`.my-1 // top and bottom`

Padding/Margin Sizes

`.*-0 // zero`

`.*-1 // .25rem`

`.*-2 // .5rem`

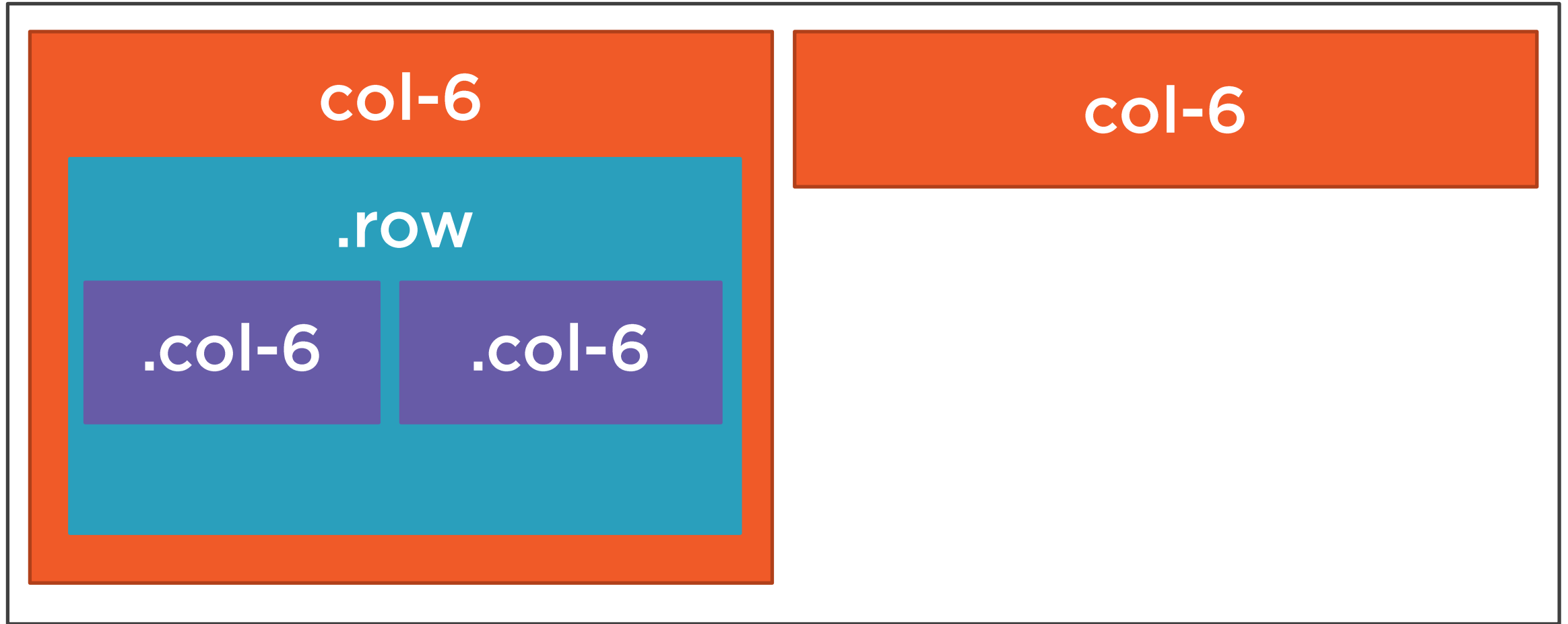
`.*-3 // 1rem`

`.*-4 // 1.5rem`

`.*-5 // 3rem`

`.*-auto // set to auto`

Nested Rows



Demo



Using Rows



What We've Learned



Using Bootstrap's layout will help you structure your websites



The grid system allows you to not fix-size your elements



Getting comfortable with Bootstrap's layout system will take time



Up Next:

Applying Responsive Techniques

