Day 5

Behold Bootstrap!

The Coding Bootcamp |

© 2016 | Coding Boot Camp - All Rights Reserved

Objectives

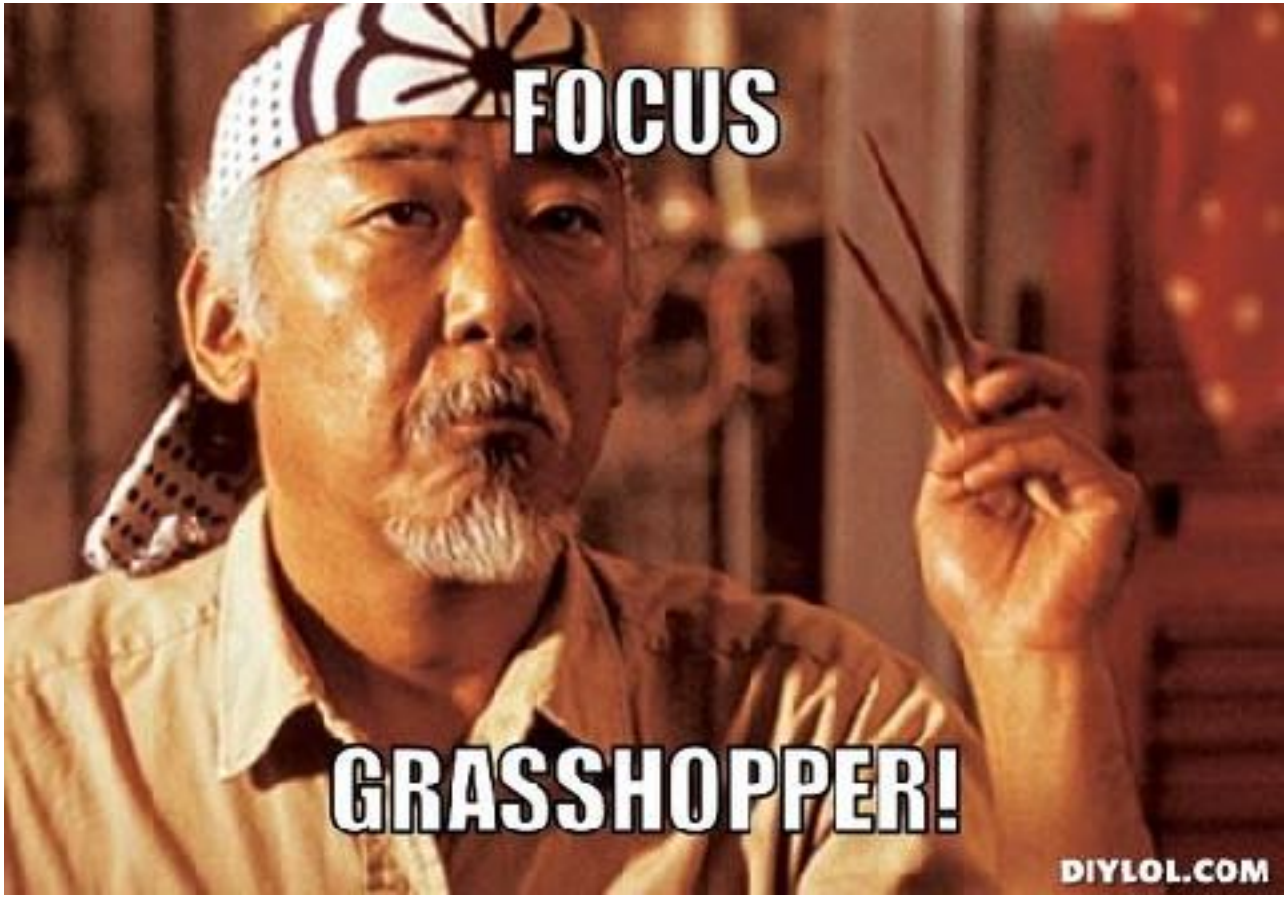
1. Students will use **Twitter Bootstrap** to create layouts

1. Students will learn to use **media queries** for mobile responsive websites

1. Students will learn to use the **viewport** tag to make sure all devices are displaying web pages optimally

© 2016 | Coding Boot Camp - All Rights Reserved

Focus!



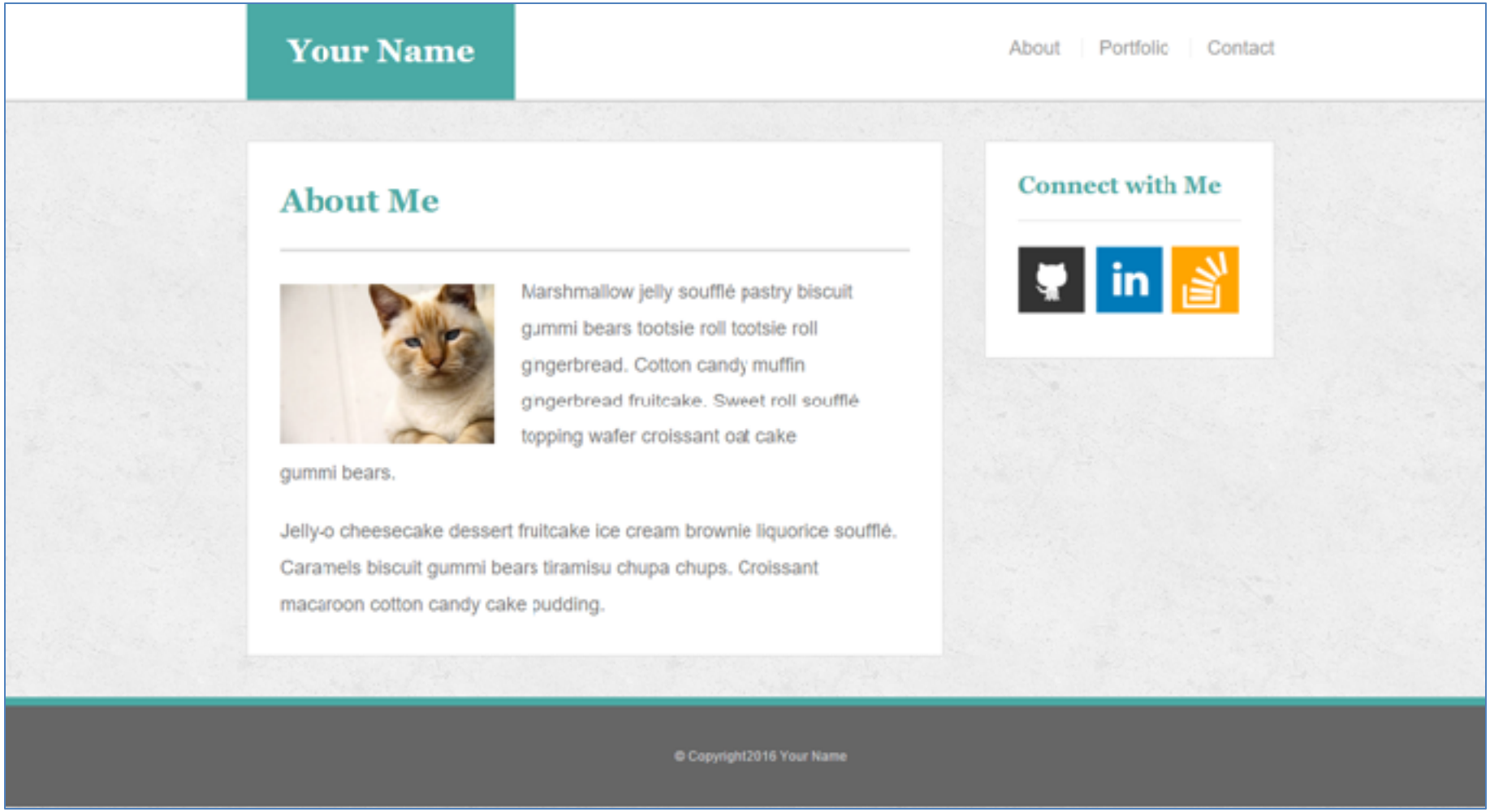
This stuff is important…

© 2016 | Coding Boot Camp - All Rights Reserved

Recap Bootstrap

© 2016 | Coding Boot Camp - All Rights Reserved

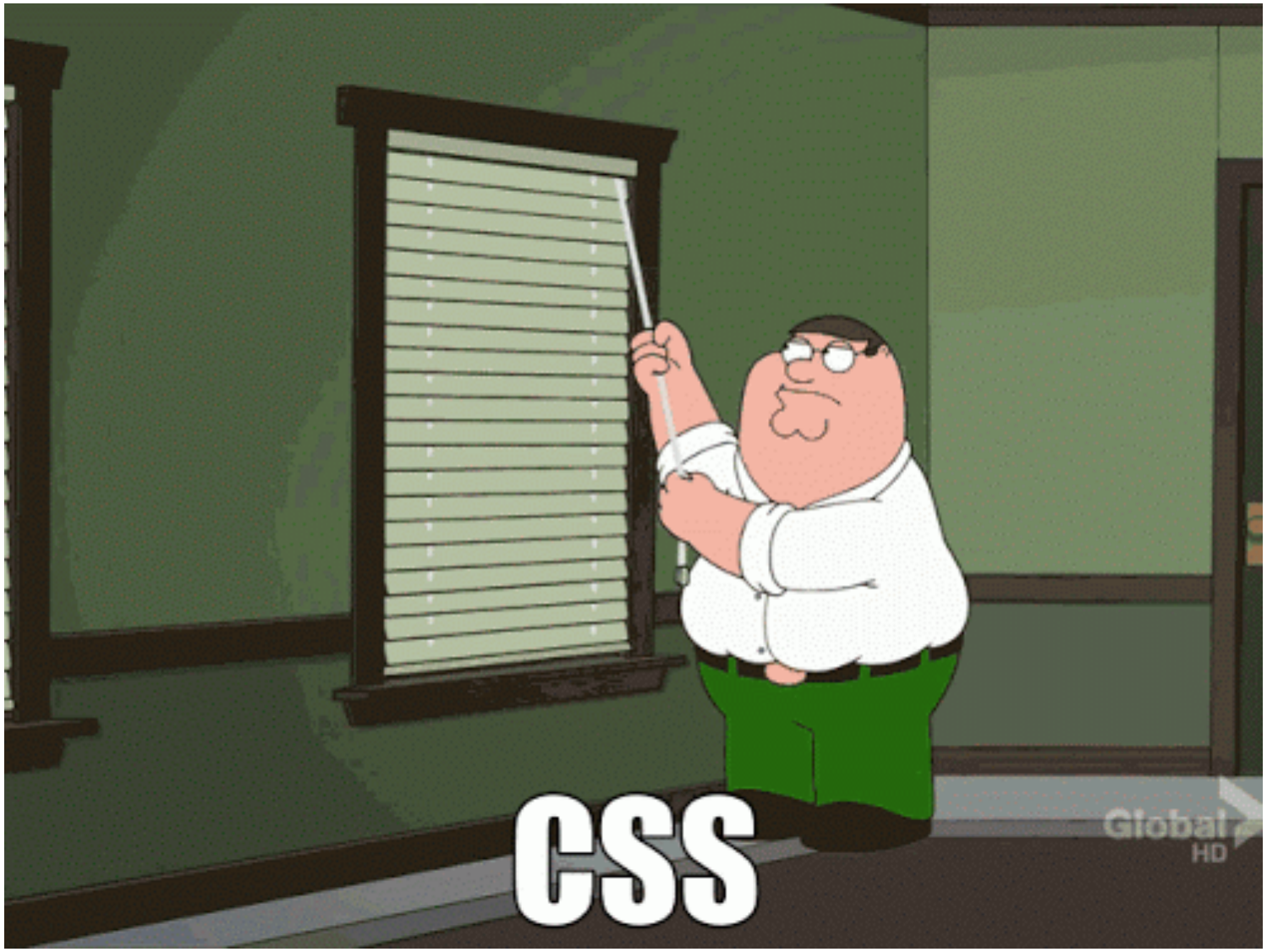
The Pains of HW 1



Plain HTML + CSS makes layout building challenging

© 2016 | Coding Boot Camp - All Rights Reserved

How You (Probably) Feel About CSS



© 2016 | Coding Boot Camp - All Rights Reserved

But Then Came Bootstrap…

The Coding Bootcamp | Home | About | Contact | Dropdown ▾ | Default | Static top | Fixed top

Awesome Header

Smaller Awesome Header

Even Smaller Header

✉ Learn more

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quis, molestiae modi accusamus animi magnam veniam, impedit asperiores sint consequuntur dolores fugit quibusdam dolor, iusto sed porro ab minus voluptatibus amet

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusamus, maiores, quos. At, animi, facilis. Alias itaque ab minima rerum, eaque! Animi nesciunt harum nemo est cumque voluptas, qui reprehenderit atque

© 2016 | Coding Boot Camp - All Rights Reserved

Powered by Bootstrap

External CSS Link

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>My First Website</title>
5      <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/
       bootstrap/3.3.6/css/bootstrap.min.css">
6  </head>
7  <body>
```

Pre-Defined CSS Class (ex: “Jumbotron”)

```
<div class="jumbotron">
  <h1 class="text-center"><strong>Awesome Header</strong></h1>
  <h2 class="text-center">Smaller Awesome Header</h2>
  <h3 class="text-center">Even Smaller Header</h3>
  <p class="text-center"><a class="btn btn-danger btn-lg" href="#" role="button">
<span class="glyphicon glyphicon-envelope"></span> Learn more</a></p>
</div>
```

© 2016 | Coding Boot Camp - All Rights Reserved

Powered by Bootstrap

The Coding Bootcamp | Home | About | Contact | Dropdown | Default | Static top | Fixed top

Awesome Header

Smaller Awesome Header

Even Smaller Header

Learn more

class="jumbotron"

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quis, molestiae modi accusamus animi magnam veniam, impedit asperiores sint consequuntur dolores fugit quibusdam dolor, iusto sed porro ab minus voluptatibus amet

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusamus, maiores, quos. At, animi, facilis. Alias itaque ab minima rerum, eaque animi nesciunt harum nemo est cumque voluptas, qui reprehenderit atque

© 2016 | Coding Boot Camp - All Rights Reserved

Big Deal!!!

Using Bootstrap,
we have <u>PRE-DEFINED</u> CSS Styles.

© 2016 | Coding Boot Camp - All Rights Reserved

Why Use Bootstrap?

- **Reason #1: UI Kit**

- Familiarize yourself with the UI features it offers via the documentation.

- Once Bootstrap is active, you can simply copy snippets from the documentation to save yourself major time of creating elements yourself.

© 2016 | Coding Boot Camp - All Rights Reserved

Why Use Bootstrap?

Reason #2: Mobile Responsiveness

•One of the most compelling reasons to use Bootstrap is the default **mobile-responsive** quality it provides.

•This means that your website will look “good” automatically when viewed on screens ranging from monitors to tablets to phones.

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Warmup Activity:

As a repeat of last class, quickly create an HTML web page.

Then add in a Bootstrap component of your choosing.

Hint: Copy the Bootstrap CSS link. Then copy the code from any Bootstrap element or CSS.

© 2016 | Coding Boot Camp - All Rights Reserved

Next Phase Bootstrap

Last class, we focused on Bootstrap Components (like buttons and tables).

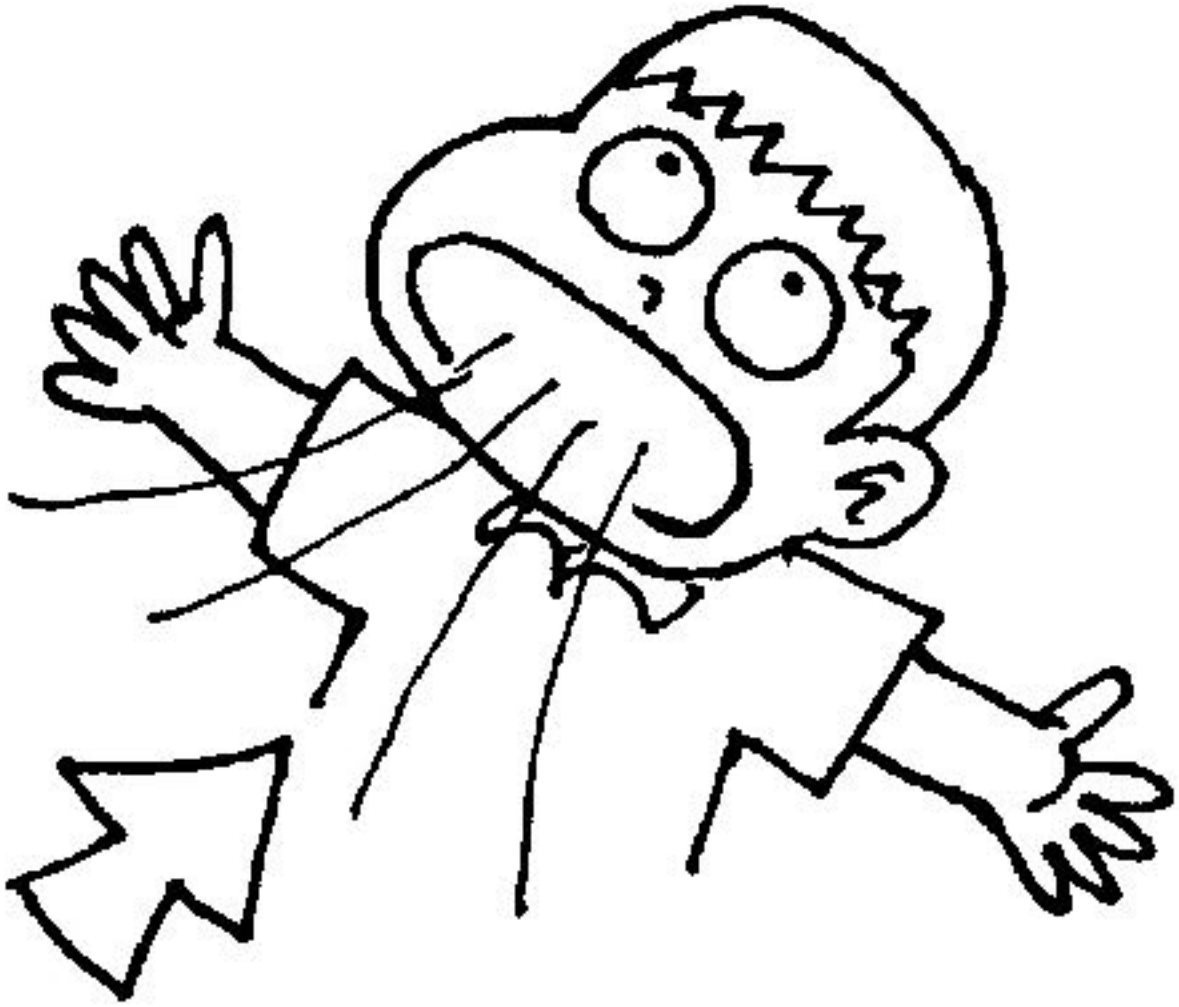
Today we'll be focused on using Bootstrap to build layouts.

© 2016 | Coding Boot Camp - All Rights Reserved

Sketching / Grid Layouts

© 2016 | Coding Boot Camp - All Rights Reserved

Take a Huge Breath…



© 2016 | Coding Boot Camp - All Rights Reserved

FOCUS!

Because in our opinion, these next two sections are of the

MOST IMPORTANT ONES

in the **ENTIRE** program.

Facebook surf at your own peril (and to the peril of the galaxy)

© 2016 | Coding Boot Camp - All Rights Reserved

FOCUS!

Relax. That doesn’t mean its hard.

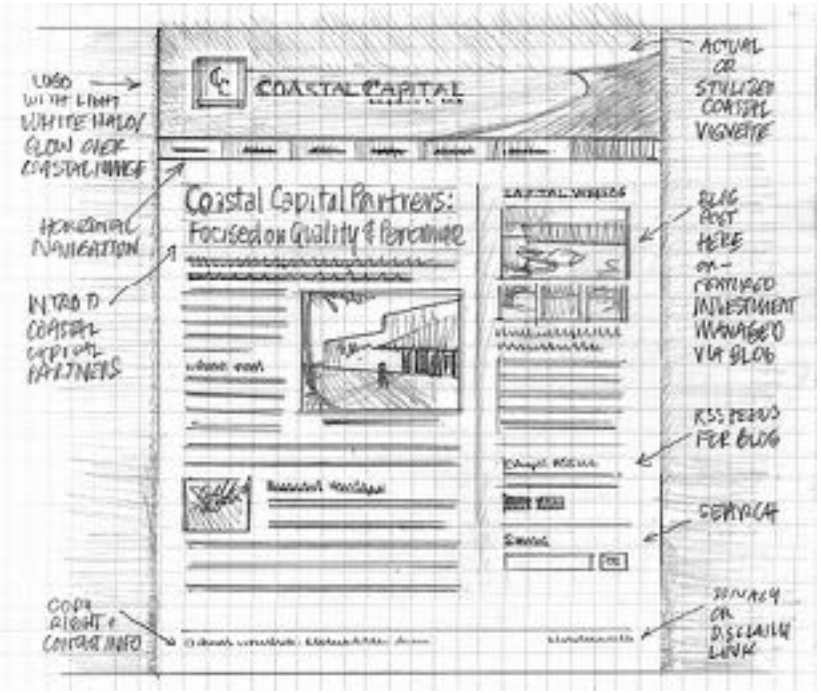
© 2016 | Coding Boot Camp - All Rights Reserved

Importance of Sketches

- Because every aspect of a site's "look" is defined by HTML/ CSS – it is crucial to have a detailed sketch going in.

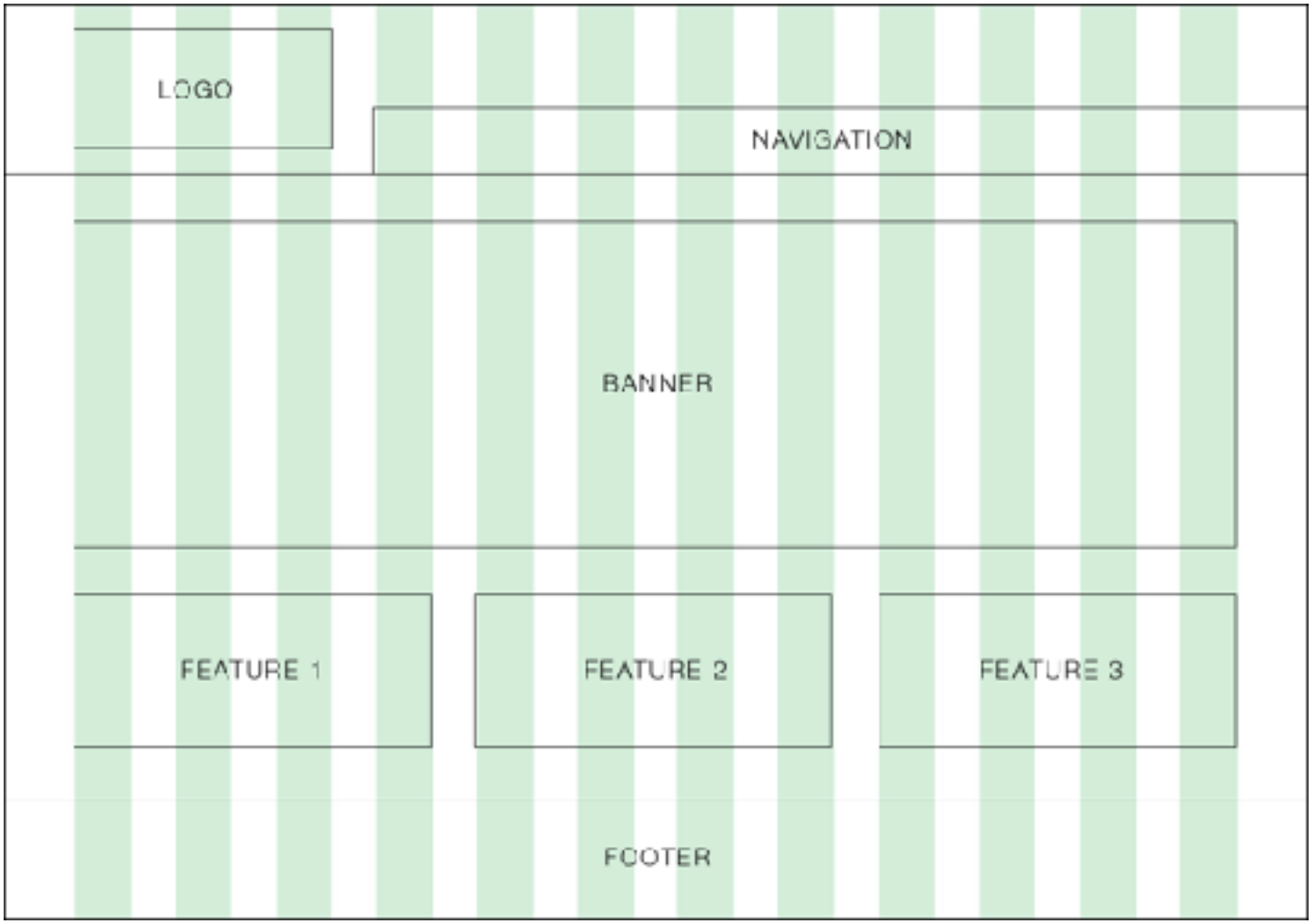
- Pay particular attention to the location of navigation bars, titles, headers, content, images, footers etc.

- When imagining alignments, in particular, be mindful of the ***grid***



© 2016 | Coding Boot Camp - All Rights Reserved

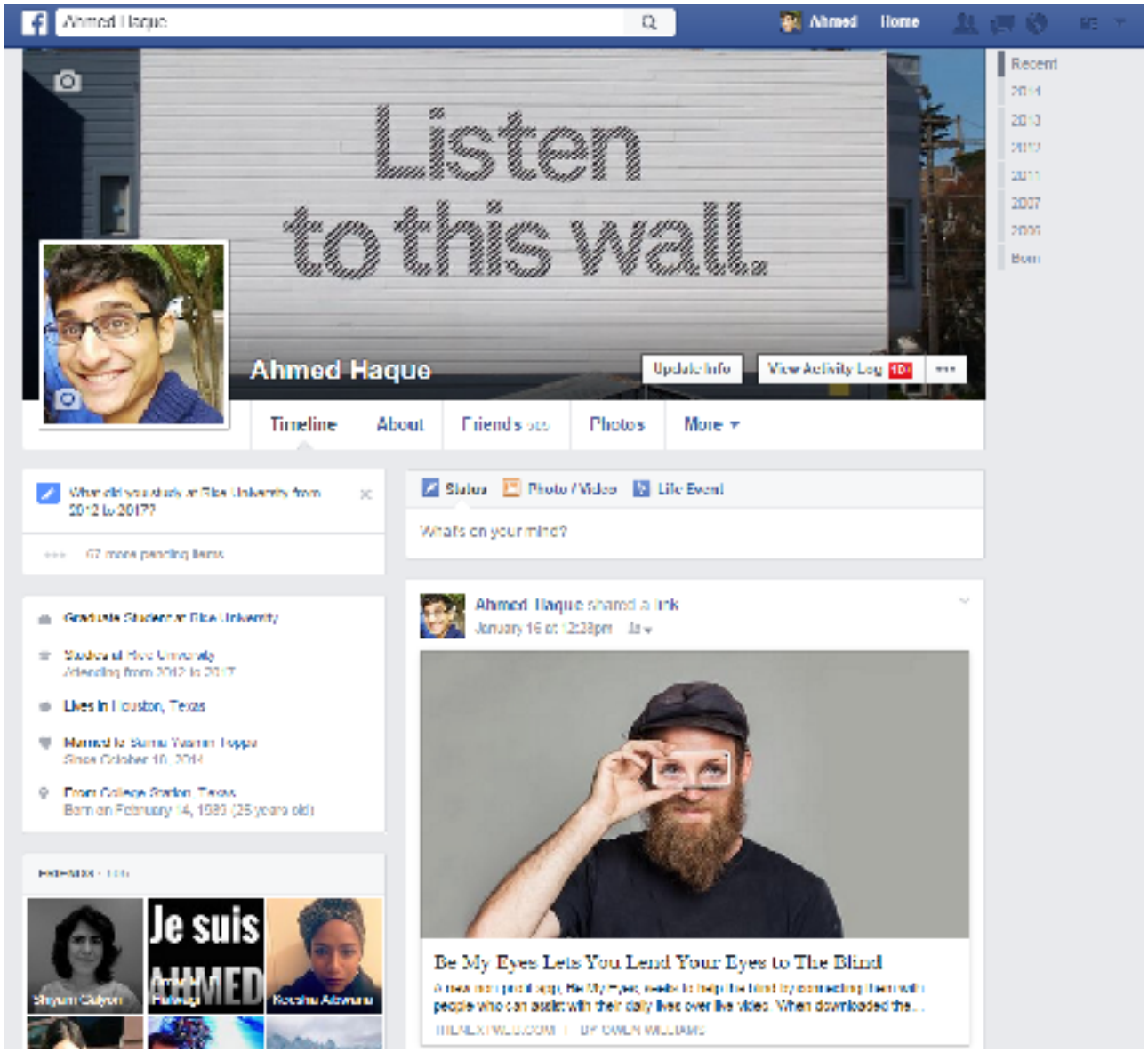
Designing with a Grid in Mind



- Grids serve to align elements aesthetically.

© 2016 | Coding Boot Camp - All Rights Reserved

Facebook's Grid

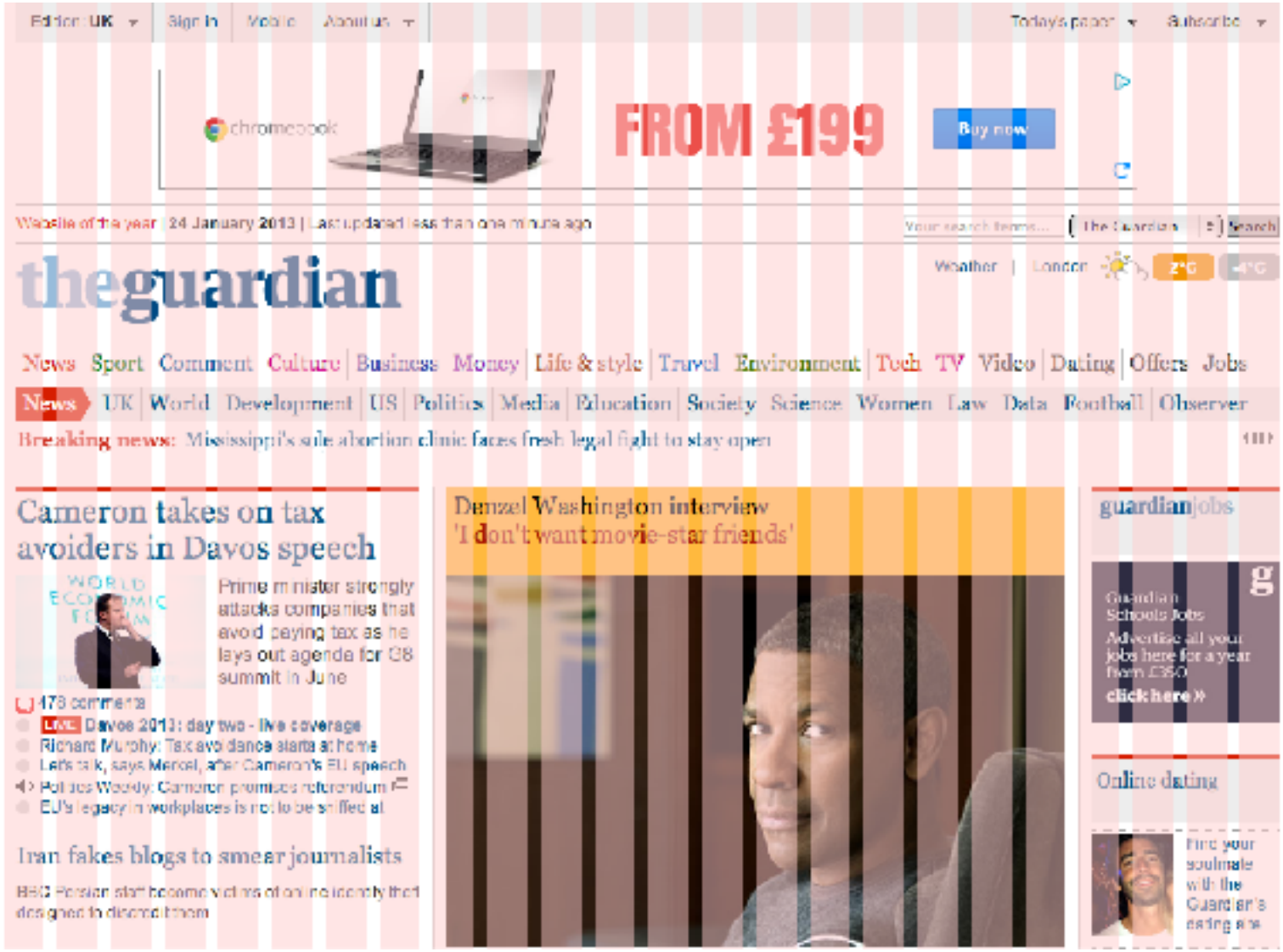


Facebook is a perfect example of a website where the "grid-layout" is obvious.

Grids make it easy to have content (text, images, and regions) align aesthetically.

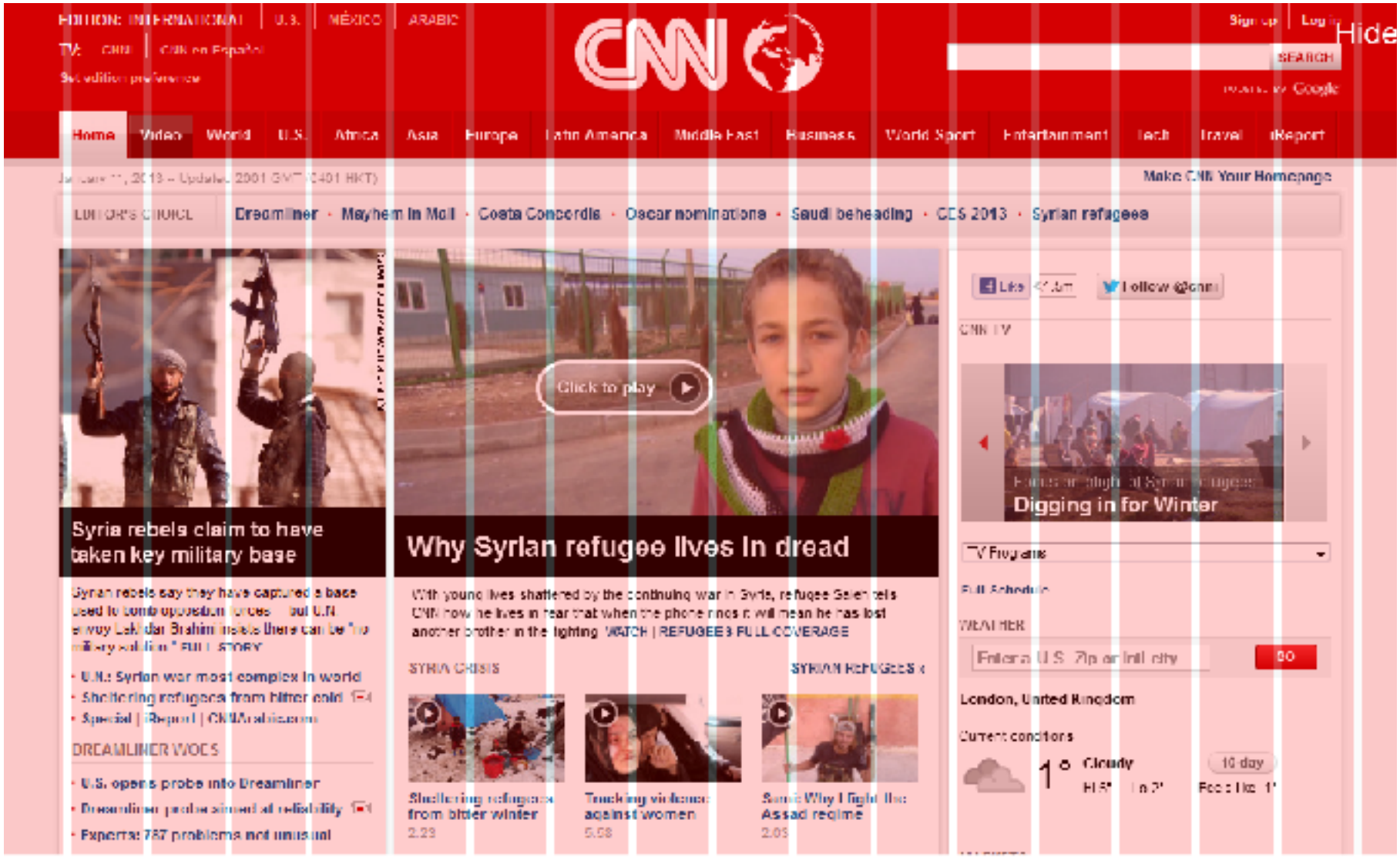
© 2016 | Coding Boot Camp - All Rights Reserved

A More Complex Grid…



© 2016 | Coding Boot Camp - All Rights Reserved

A More Complex Grid…

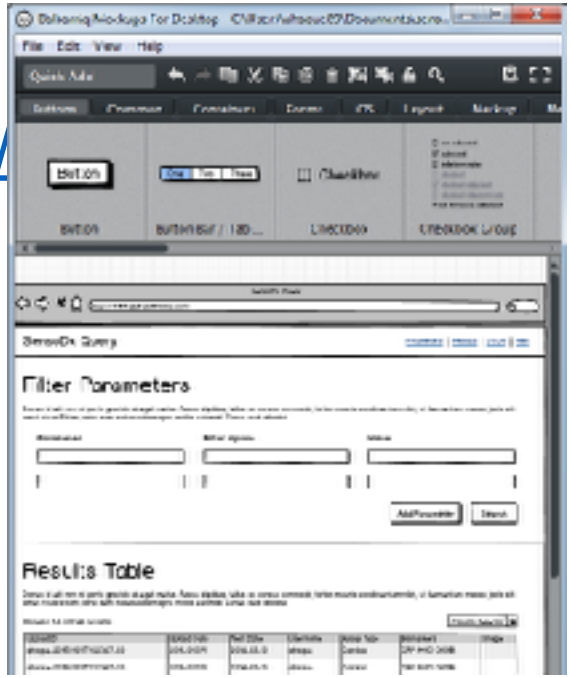


© 2016 | Coding Boot Camp - All Rights Reserved

Tools for Sketch / Grid Creation

Wireframing Tools:

- Balsamiq***: https://balsamiq.com/
- Framebox: http://framebox.org/
- Pen and Paper: Your notebook



Grids for Photoshop / Illustrator:

- 960 GS: http://960.gs/
- GuideGuide: http://framebox.org/

Designing with Grids Guides:

- 960 Grid System Made Easy: http://bit.ly/1sjYaFC
- Design by Grid: http://www.designbygrid.com/
- Designing with Grid-Based Approach: http://bit.ly/1CM4Hzo

© 2016 | Coding Boot Camp - All Rights Reserved

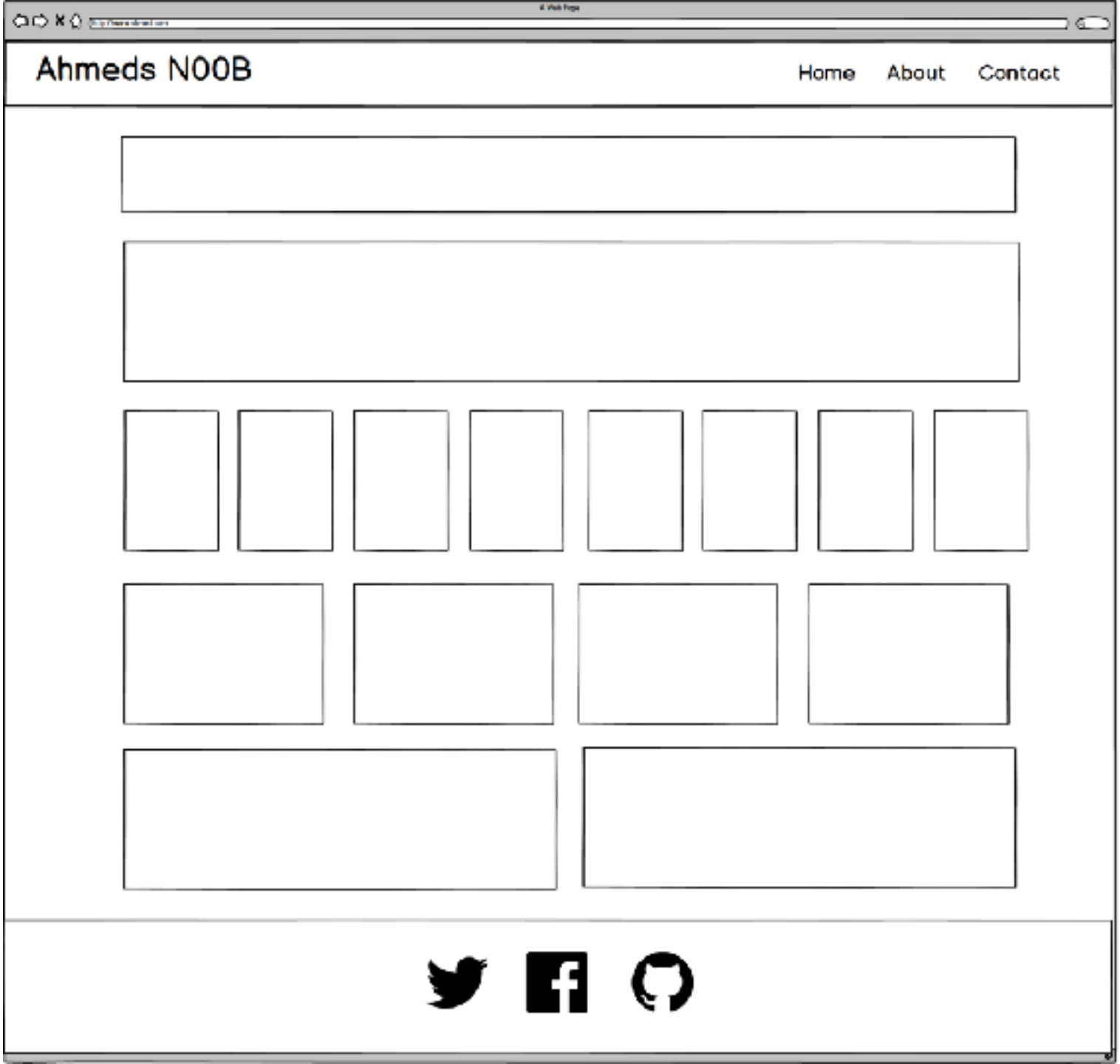
Rows and Columns

Workshop

© 2016 | Coding Boot Camp - All Rights Reserved

Web Design Fundamentally = Wireframes

© 2016 | Coding Boot Camp - All Rights Reserved


Ahmeds N00B
Home
About
Contact

ROWS

1

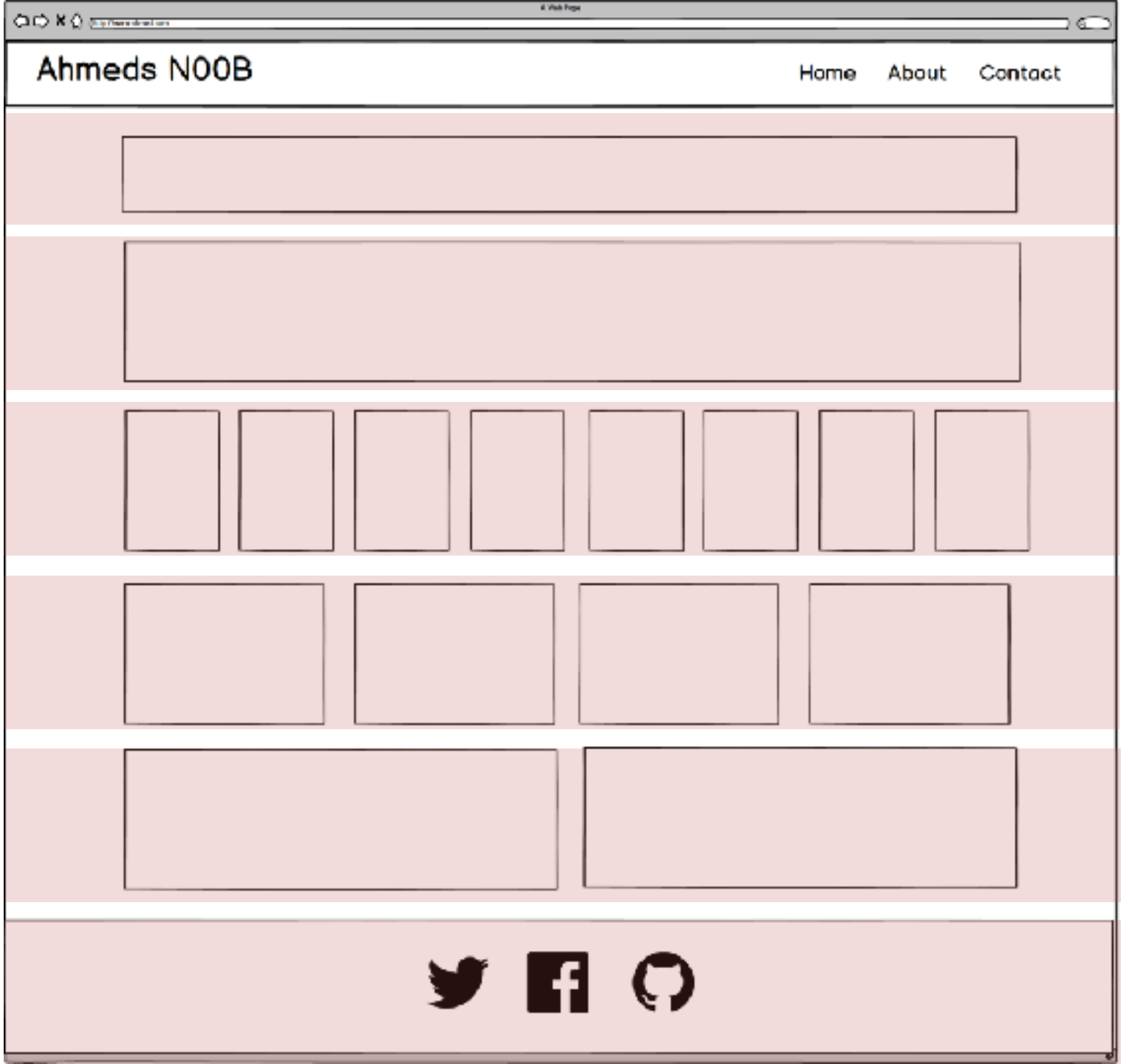
1

1

1

1

1



6

Total

COLUMNS

1

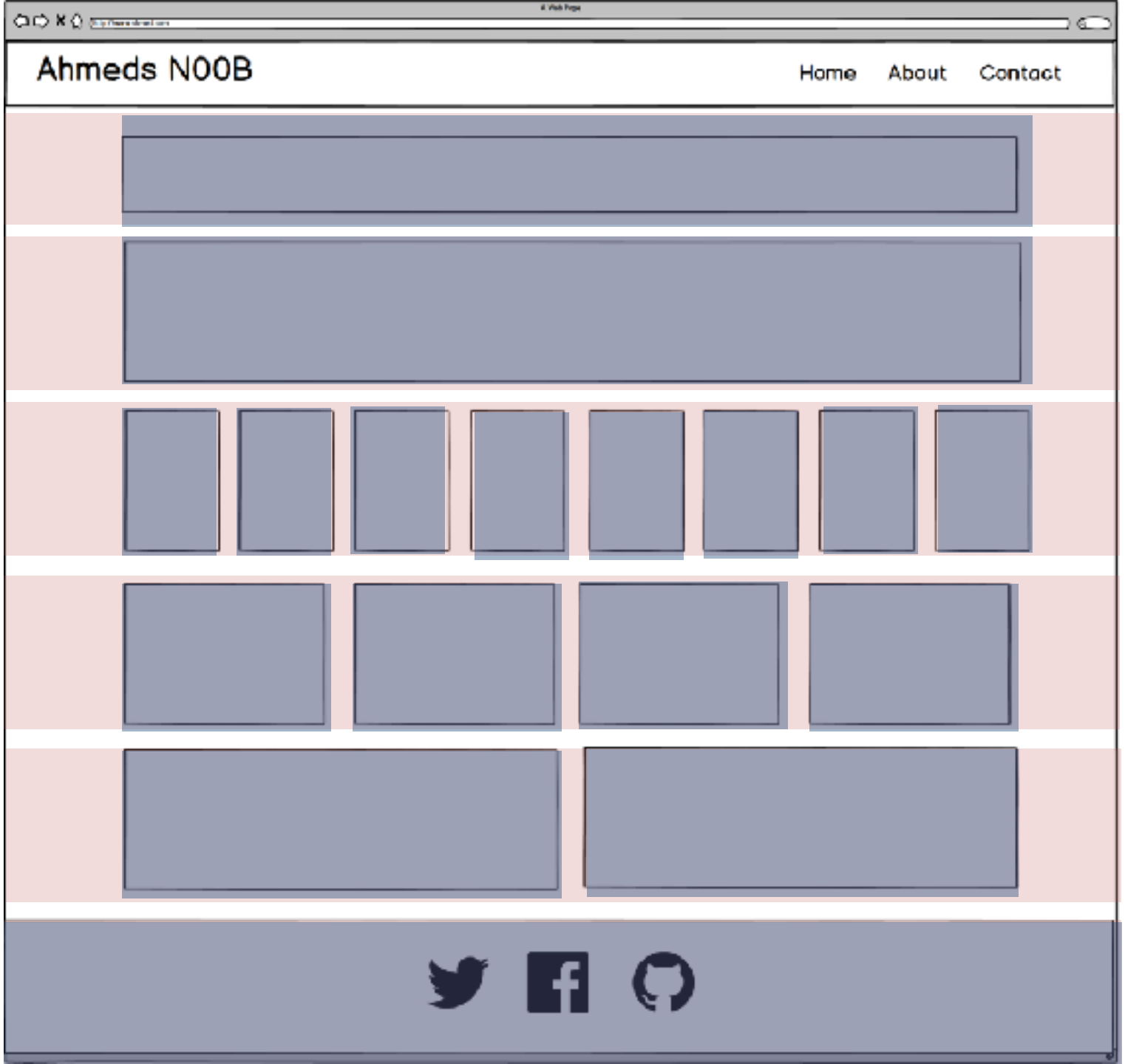
1

8

4

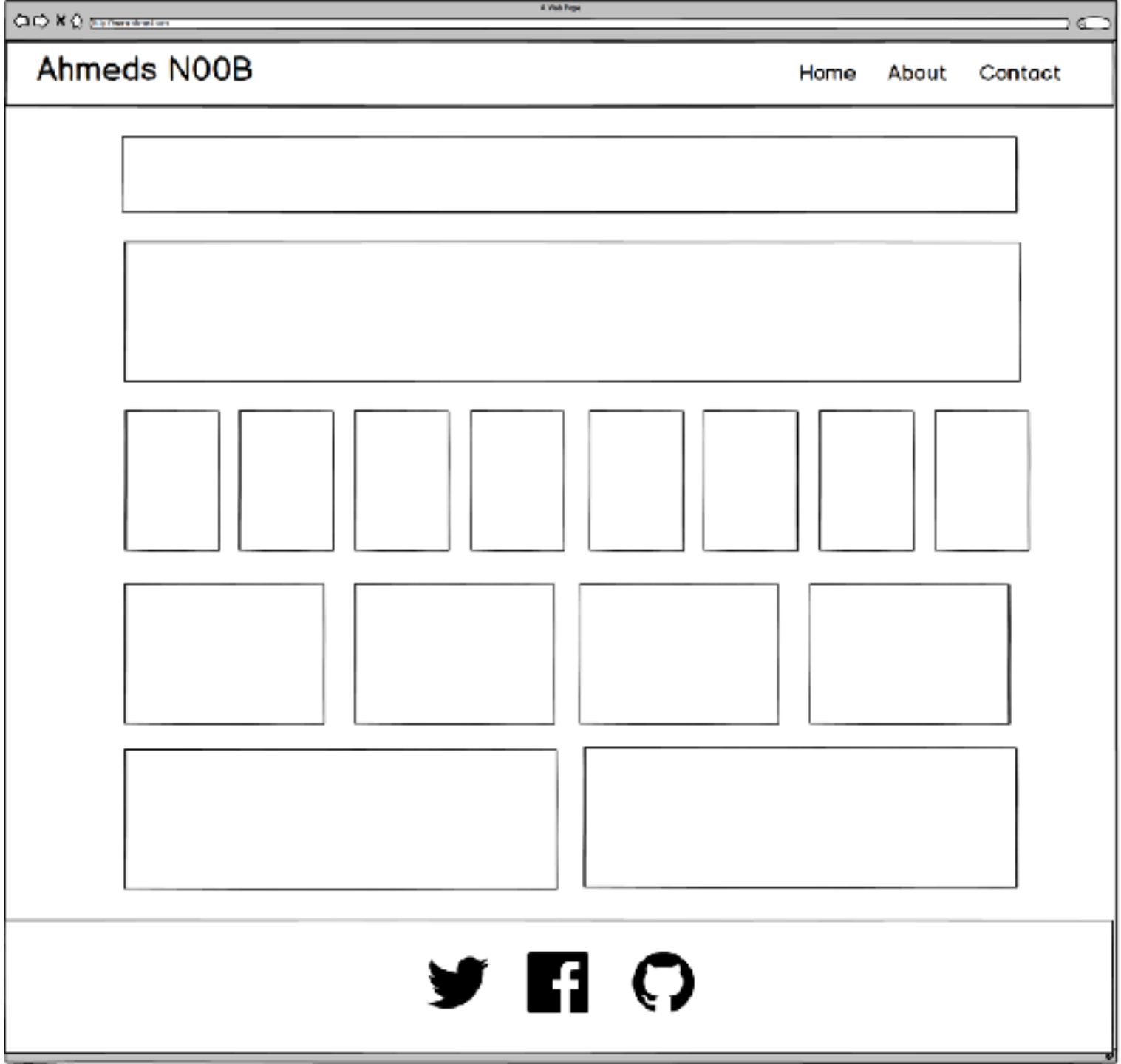
2

1



Total Not relevant

You Try!



Level Up!

Now, let’s make it more challenging…

© 2016 | Coding Boot Camp - All Rights Reserved

Ahmeds News

Home About Contact

Awesome Stories

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

ROWS

1

1

1

1

Ahmeds News

Home About Contact

Awesome Stories

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

4

Total

COLUMNS

1

2

2

1

Ahmeds News

Home About Contact

Awesome Stories

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam est. volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam est. volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

Total Not relevant

Level Up!

Now for another…

© 2016 | Coding Boot Camp - All Rights Reserved

AhmedsHouse

Home About Contact

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vestibulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, at dignissim sapien gravida ac.

ROWS

1

1***

1

1

AhmedsHouse

Home About Contact

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vestibulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, at dignissim sapien gravida ac.

4

Total

COLUMNS

1

3

1

1

AhmedsHouse

Home About Contact

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vestibulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, at dignissim sapien gravida ac.

Total Not relevant

You Try!

AhmedsHouse

Home About Contact

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vestibulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, at dignissim sapien gravida ac.

Level Up!

This final one is tricky…

© 2016 | Coding Boot Camp - All Rights Reserved

Ahmeds Photos

Home About Contact

Awesome Photos

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vestibulum non tellus ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis

Click Photo to View

Level Up!

Didn’t quite work right?

For this one we need sub-rows and sub-columns

© 2016 | Coding Boot Camp - All Rights Reserved

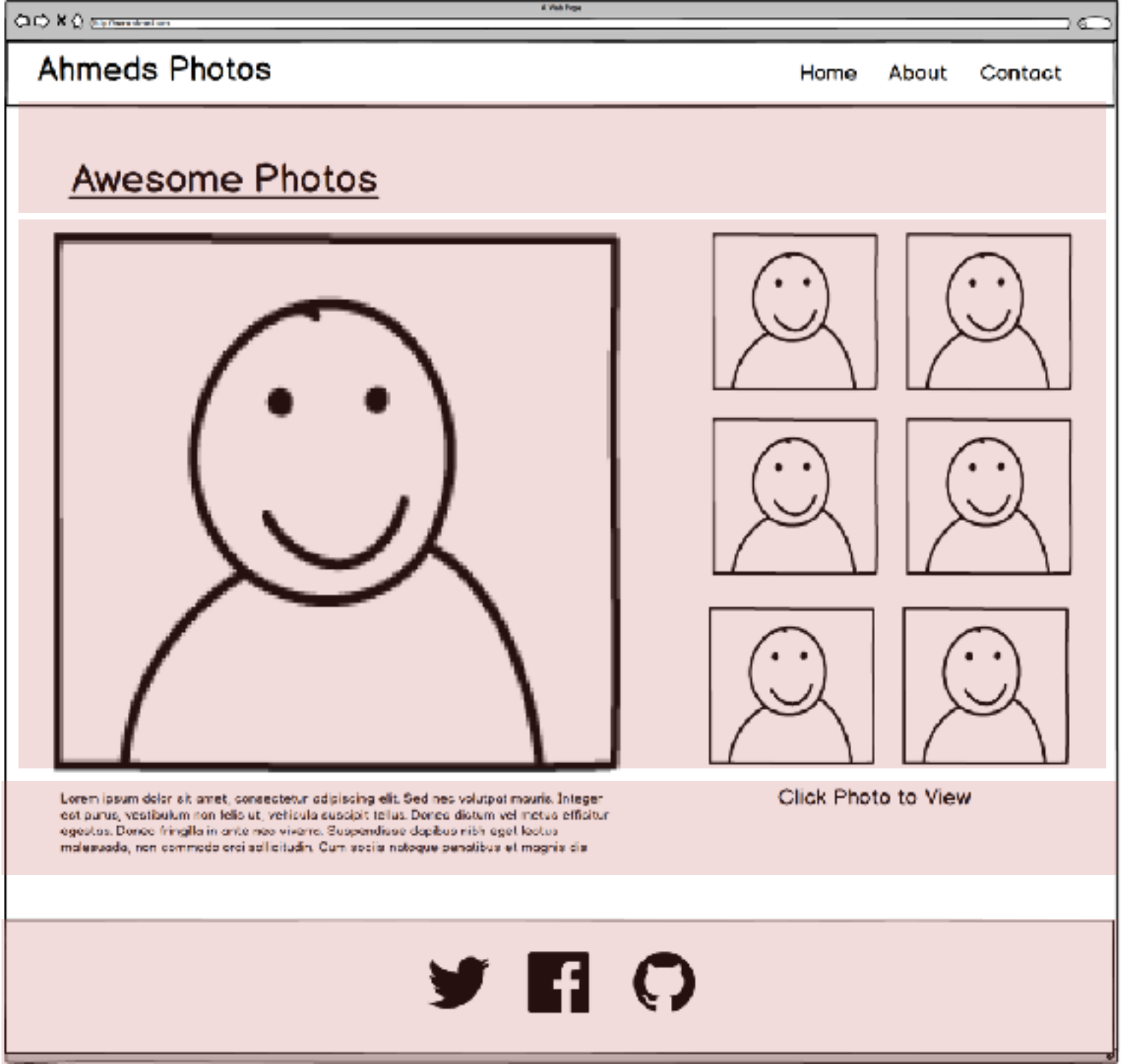
ROWS

1

1***

1***

1



4

Total

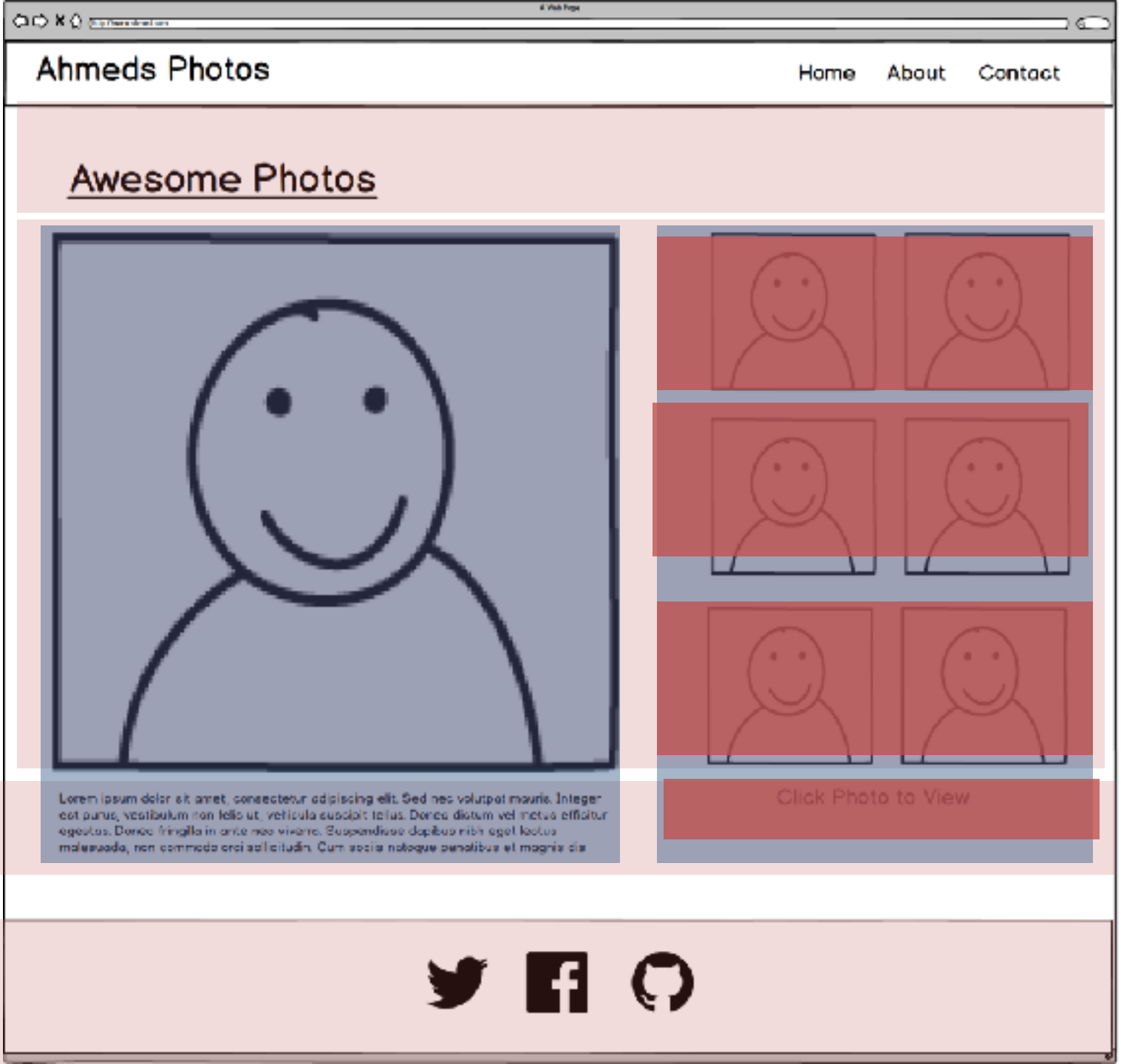
COLUMNS

1

2

1

Total Not relevant



SUB-ROWS

1

1

1

1

4

Total

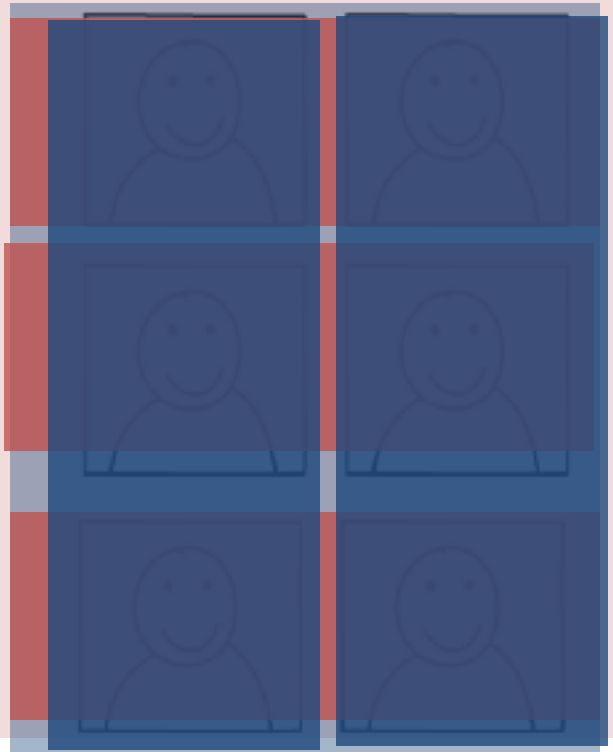
Ahmeds Photos

Home About Contact

SUB-COLUMNS

Awesome Photos

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vestibulum non tellus ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis



Click Photo to View

2

1

You Try!

Ahmeds Photos

Home About Contact

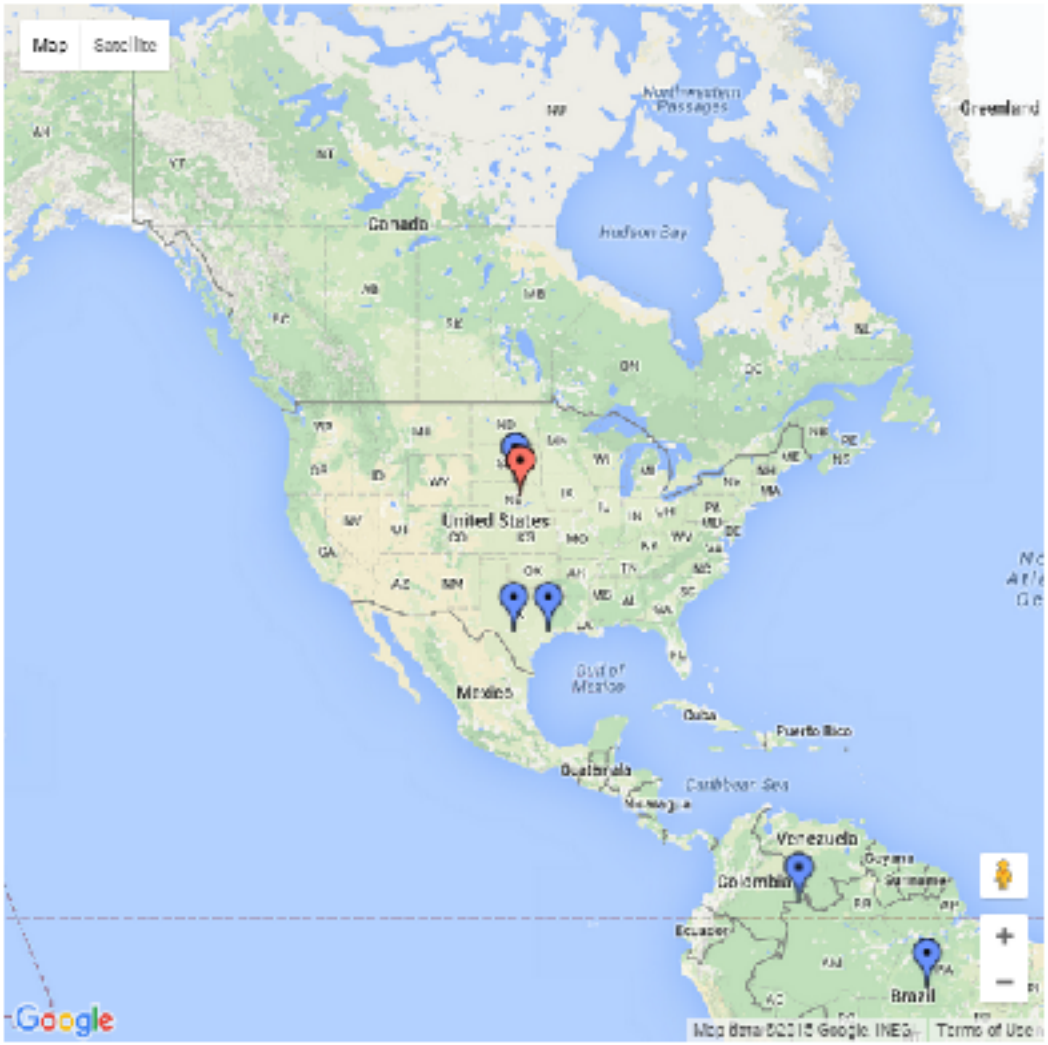
Awesome Photos

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vestibulum non tellus ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis

Click Photo to View

The Scotch MEAN MapApp

Join the Team | Find Teammates



Join the Scotch Team!

Username Required

OldandGold

Gender

- Male
- Female
- What's it to ya?

Age

72

Favorite Language

Fortran

Latitude

39.5

Longitude

-90.35

HTML5 Verified Location?

Nope (Thanks for spamming my map...)

Submit

ROWS

The Scotch MEAN MapApp

Join the Team | Find Teammates

Join the Scotch Team!

Username Required

OldandGold

Gender

- Male
- Female
- What's it to ya?

Age

72

Favorite Language

Fortran

Latitude

39.5

Longitude

-90.35

HTML5 Verified Location?

Nope (Thanks for spamming my map...)

Submit

1

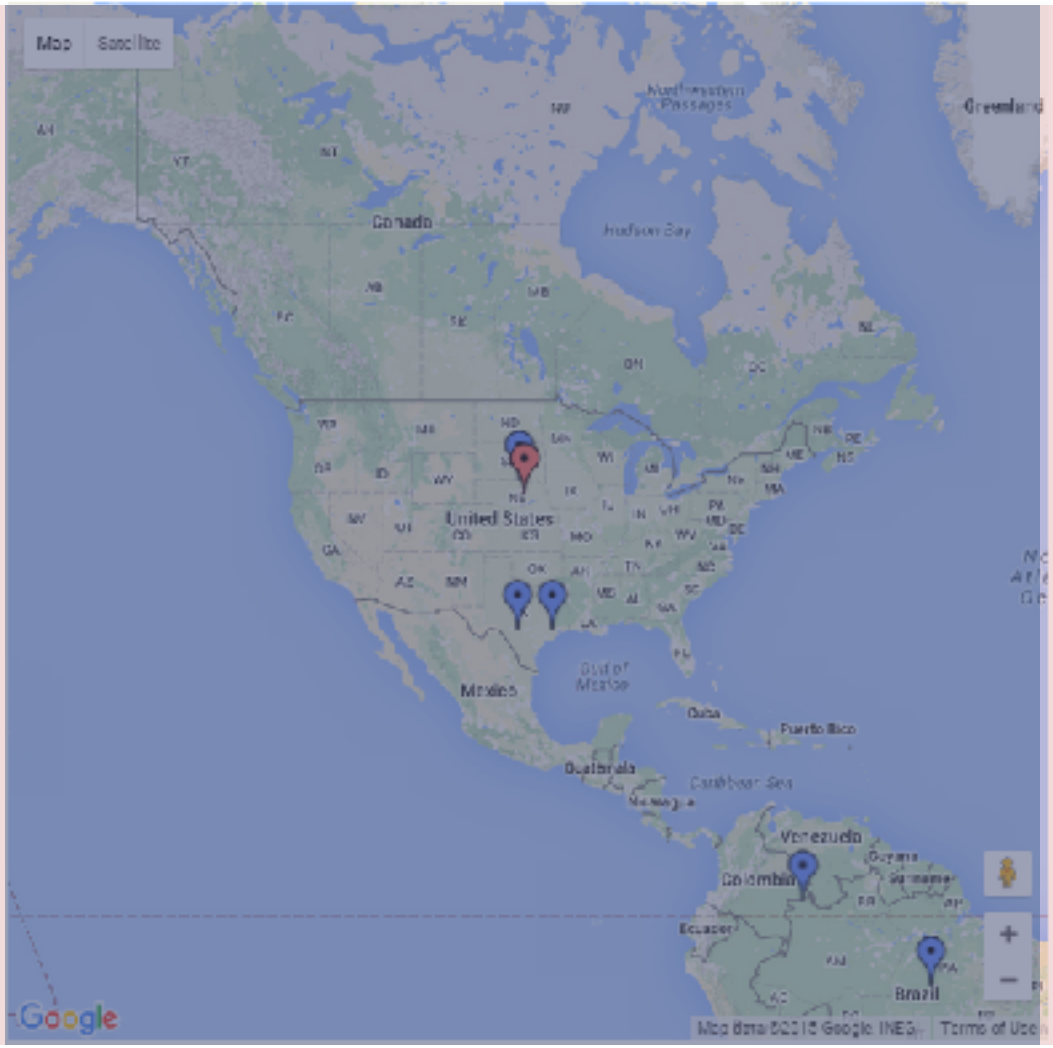
1

COLUMNS

The Scotch MEAN MapApp

Join the Team | Find Teammates

2



Join the Scotch Team!

Username Required

OldandGold

Gender

- Male
- Female
- What's it to ya?

Age

72

Favorite Language

Fortran

Latitude

39.5

Longitude

-90.35

HTML5 Verified Location?

Nope (Thanks for spamming my map...)

Submit

1

Created by Ahmad Haque for Scotch.IO - App Tutorial | Github Repo

YOU MADE IT

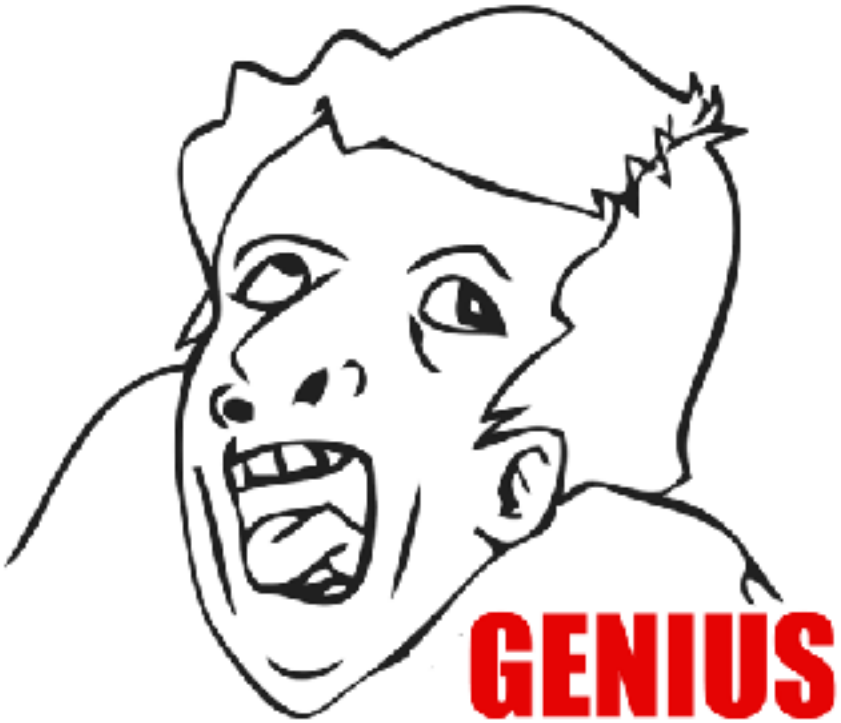
Grid Design with Bootstrap

© 2016 | Coding Boot Camp - All Rights Reserved

More Genius Time!

Warning!

This is a fairly “tricky”… **but VERY IMPORTANT topic.**



Ti s.

© 2016 | Coding Boot Camp - All Rights Reserved

Ahmeds News

Home About Contact

Awesome Stories

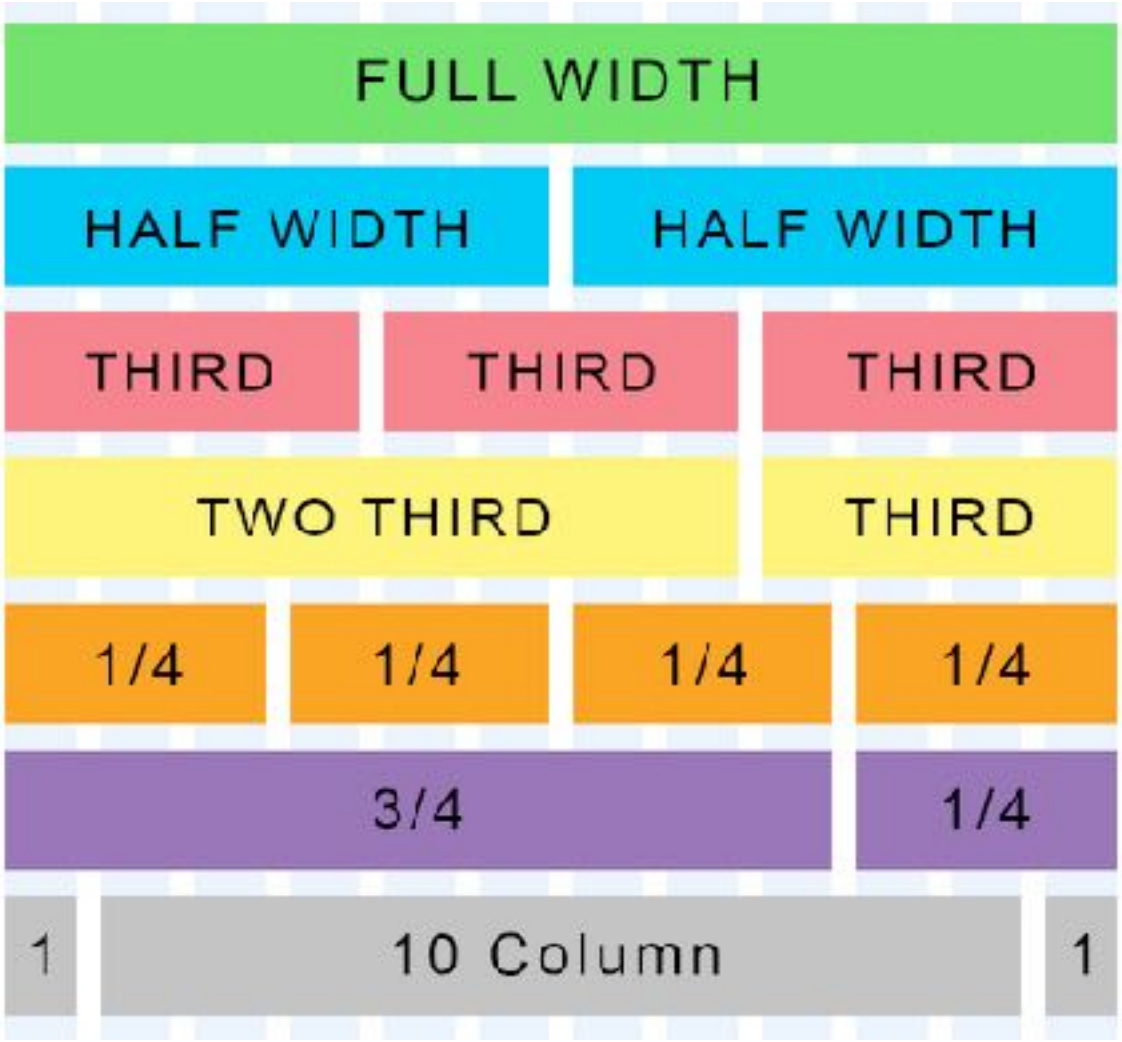
The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

The Greatest Website Ever Made

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed nec volutpat mauris. Integer est purus, vest bulum non felis ut, vehicula suscipit tellus. Donec dictum vel metus efficitur egestas. Donec fringilla in ante nec viverra. Suspendisse dapibus nibh eget lectus malesuada, non commodo orci sollicitudin. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam erat volutpat. Etiam pharetra odio vel ornare porttitor. Nulla facilisi. Sed posuere varius vulputate. Mauris at ex lectus. Nam luctus augue tellus, et dignissim sapien gravida ac.

Bootstrap Grid



Bootstrap lets you organize content based on the “number of columns” a div spans – out of a total 12 columns.

Example:

(Spans full width)

(Spans 1/3 of full width)

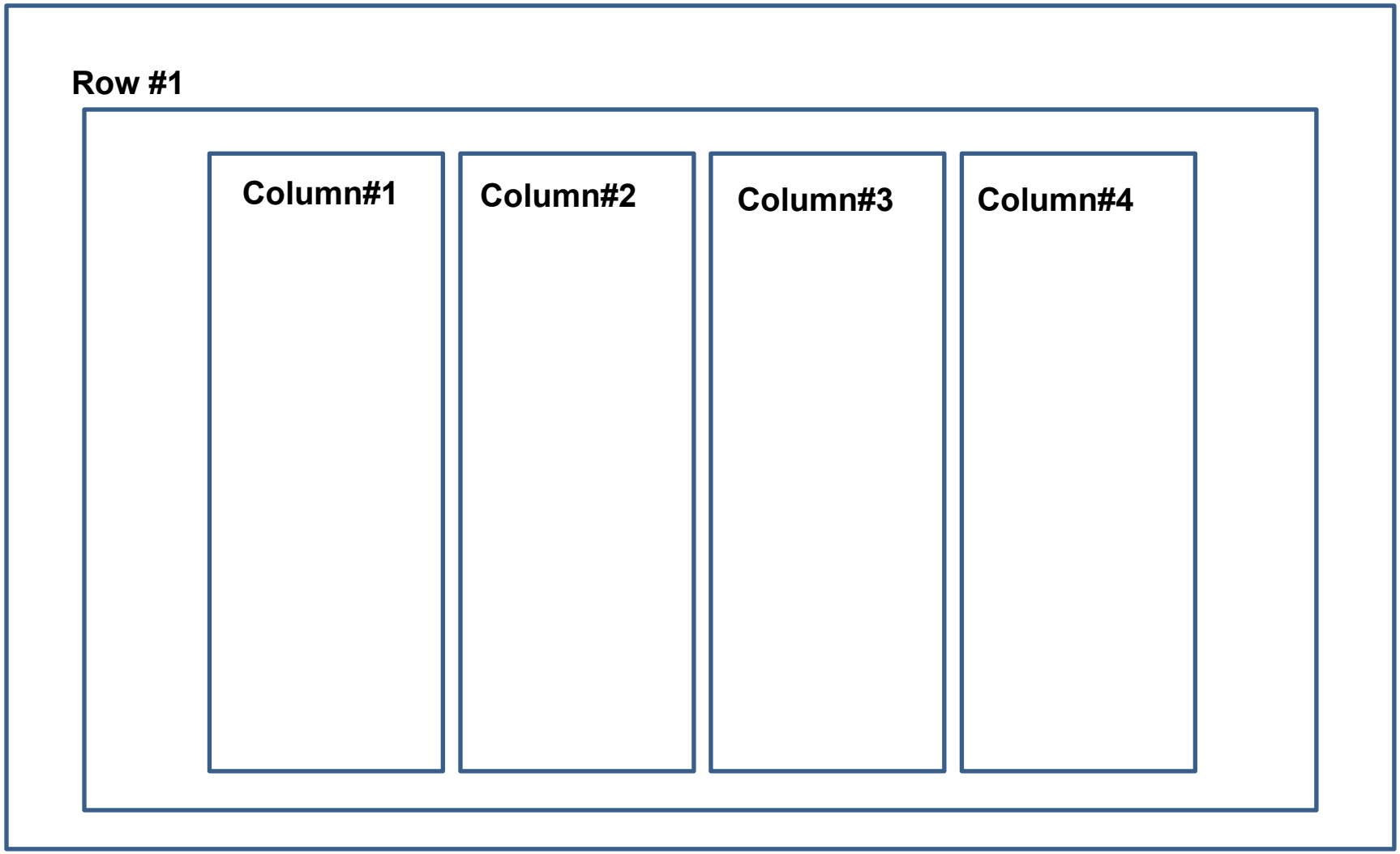
© 2016 | Coding Boot Camp - All Rights Reserved

Bootstrap Grids

- Every Bootstrap Grids is made up of…
  - **containers** - which wrap around the entire grid)
  - **rows** - which are defined first and are just rows)
  - **columns** - which are defined within rows and specify the columns. The sum total of all columns within a row **must** add up to 12.
- Each of these elements is implemented by creating a **div** with a specific class name.

© 2016 | Coding Boot Camp - All Rights Reserved

Defining Columns



© 2016 | Coding Boot Camp - All Rights Reserved

Bootstrap Grid

```
<!-- Creates the Overall Grid -->
<div class="container">

    <!-- First Row -->
    <div class="row">
        <!-- First (and only column) -->
        <div class="col-lg-12">
            <h1>I'm in Column 1 of 1. I stretch the entire width. And keep going.</h1>
        </div>
    </div>

    <!-- Second Row -->
    <div class="row">
        <!-- First of two columns -->
        <div class="col-lg-6">
            <h1>I'm in Column 1 of 2</h1>
        </div>
        <!-- Second of two columns -->
        <div class="col-lg-6">
            <h1>I'm in Column 2 of 2</h1>
        </div>
    </div>

</div>
```

Note the rows, columns (col-lg-6), and containers

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Quick Activity:

Turn to your neighbors and explain to one another:

1.The relationship between **containers**, **rows**, and **columns**. (Draw it on a piece of paper for them)

1.The syntax for each.

1.The specific syntax details for columns.

© 2016 | Coding Boot Camp - All Rights Reserved

Coding Grids

© 2016 | Coding Boot Camp - All Rights Reserved

INSTRUCTOR DEMO!

Instructor: Demo

(quickgrid.html | 2-InstructorGrids)

© 2016 | Coding Boot Camp - All Rights Reserved

Bootstrap Grid

```
<!-- Creates the Overall Grid -->
<div class="container">

    <!-- First Row -->
    <div class="row">
        <!-- First (and only column) -->
        <div class="col-lg-12">
            <h1>I'm in Column 1 of 1. I stretch the entire width. And keep going.</h1>
        </div>
    </div>

    <!-- Second Row -->
    <div class="row">
        <!-- First of two columns -->
        <div class="col-lg-6">
            <h1>I'm in Column 1 of 2</h1>
        </div>
        <!-- Second of two columns -->
        <div class="col-lg-6">
            <h1>I'm in Column 2 of 2</h1>
        </div>
    </div>

</div>
```

Note the rows, columns (col-lg-6), and containers

© 2016 | Coding Boot Camp - All Rights Reserved

Bootstrap Grid

```
<!-- Creates the Overall Grid -->
<div class="container">

    <!-- First Row -->
    <div class="row">
        <!-- First (and only column) -->
        <h1>I'm in Column 1 of 1. I stretch the entire width. And keep going.</h1>
        <!-- First of two columns -->
        <h1>I'm in Column 1 of 2</h1>
        </div>
        <!-- Second of two columns -->
        <div class="col-lg-6">
            <h1>I'm in Column 2 of 2</h1>
        </div>
    </div>

</div>
```

Note the rows, columns (col-lg-6), and containers

© 2016 | Coding Boot Camp - All Rights Reserved

Defining Containers

```
<!-- Creates the Container -->
<div class="container">
    <!-- Inside we fill it up with rows and columns -->
</div>
```

“Containers” are like the box that the entire grid sits inside.

© 2016 | Coding Boot Camp - All Rights Reserved

Defining Rows

```
<div class="container">

    <!-- Defines the row -->
    <div class="row">
        <!-- Columns fit inside -->
    </div>

</div>
```

“Rows” are like the rows we talked about earlier.

© 2016 | Coding Boot Camp - All Rights Reserved

Defining Columns

```
<div class="row">

    <div class="col-md-4">
        <!-- This is column 1 of 3 -->
    </div>
    <div class="col-md-4">
        <!-- This is column 2 of 3 -->
    </div>
    <div class="col-md-4">
        <!-- This is colmn 3 of 3 -->
    </div>

</div>
```

“Columns” fit inside of rows. Note the syntax: col-sz-#

Col = column

sz = viewing size (in this case: medium)

= number of “columns taken” out of 12. (in this case 4 of 12)

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Activity:

Using Twitter bootstrap, create a layout that looks like the one shown on the next screen.

- Spend some time prior to coding to draw out the grid layout
- Count the number of rows and columns
- Then use the bootstrap grid syntax to code it out.
- Slack a screenshot of your page when you are done.
- Ipsum Generator: http://www.lipsum.com/

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Header

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Incidunt optio provident tempora amet eveniet et, eum illum, culpa laborum dicta recusandae magni architecto. Illo saepe facilis, unde Deleniti, atque, doloremque?

Lorem ipsum dolor sit amet, consectetur adipisicing elit. At dolorum perferendis voluptates error ullam placeat repellendus. Repellendus error repellat veritatis necessitatibus voluptates earum rerum consectetur itaque, ipsam nihil. Alias, nemo.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Dolores ratione sint ex porro excepturi non dolorum, ullam ea quae vel earum, soluta obcaecati natus. Fugendi iusto accusantium mollitia debitis assumenda!

Lorem ipsum dolor sit amet, consectetur adipisicing elit Consequuntur optio dolorem dolores odio alias perferendis commodi cum. Natus libero eum dolore officia quia eveniet modi reprehenderit soluta ratione quisquam? Sequi

Lorem ipsum dolor sit amet, consectetur adipisicing elit Consequuntur optio dolorem dolores odio alias perferendis commodi cum. Natus libero eum dolore officia quia eveniet modi reprehenderit soluta ratione quisquam? Sequi

Lorem ipsum dolor sit amet, consectetur adipisicing elit Consequuntur optio dolorem dolores odio alias perferendis commodi cum. Natus libero eum dolore officia quia eveniet modi reprehenderit soluta ratione quisquam? Sequi

Lorem ipsum dolor sit amet, consectetur adipisicing elit Consequuntur optio dolorem dolores odio alias perferendis commodi cum. Natus libero eum dolore officia quia eveniet modi reprehenderit soluta ratione quisquam? Sequi

Lorem ipsum dolor sit amet, consectetur adipisicing elit Consequuntur optio dolorem dolores odio alias perferendis commodi cum. Natus libero eum dolore officia quia eveniet modi reprehenderit soluta ratione quisquam? Sequi

Lorem ipsum dolor sit amet, consectetur adipisicing elit Consequuntur optio dolorem dolores odio alias perferendis commodi cum. Natus libero eum dolore officia quia eveniet modi reprehenderit soluta ratione quisquam? Sequi

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Dolor ti illo voluptates blanditiis nisi! Ullam dolore aspernatur, ratione error similique veniam iusto, labore repellat eaque nostrum optio doloribus illo nihil dolor?

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Commodi sequi ex quam quia iste, nemo molestias dolor, qui dolorem voluptatibus ipsa maiores voluptas et deserunt porro repellendus veritatis nesciunt quisquam.

© 2016 | Coding Boot Camp - All Rights Reserved

Building Bootstrap Layouts

© 2016 | Coding Boot Camp - All Rights Reserved

INSTRUCTOR DEMO!

Instructor: Demo

(in-class-demo-layout.html | 15-InstructorLayout)

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Activity:

Working in pairs and using Twitter Bootstrap make the following design.

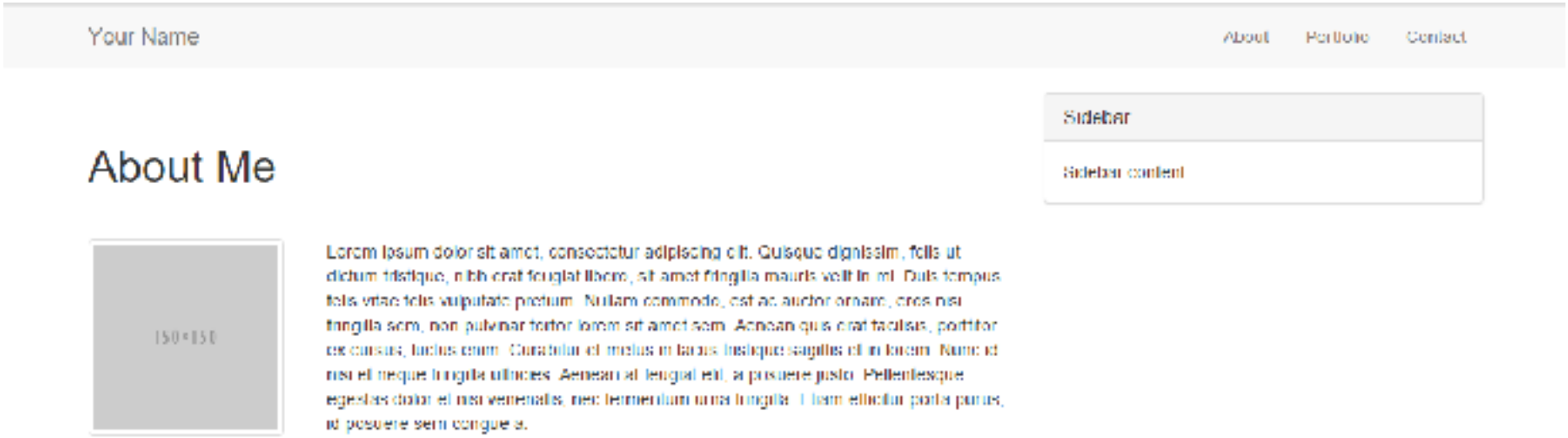
Be sure to note the:

- **Grid Layout**
- **Navbar**
- Sidebar **panel**
- **Thumbnail**

Additional details will be sent to you via slack.

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!



© 2016 | Coding Boot Camp - All Rights Reserved

Common Questions

1.Can I reverse the order (i.e. rows inside columns)?
No. Columns always go inside of rows. Though, you can create sub-rows inside of columns. But those columns would still need to be inside of a row of their own.

1.Can I just avoid having a container?
You could… But it will mess things up. Just throw in a container.

What if I have columns that go past 12?
Then your bootstrap grid will behave wildly. Don't go past 12.

What if I don't add up to 12?
Nothing. You will have empty space at the end. But be careful, because the next column you add will fill up the empty space (sometimes without your intention).

© 2016 | Coding Boot Camp - All Rights Reserved

take a deep breath.

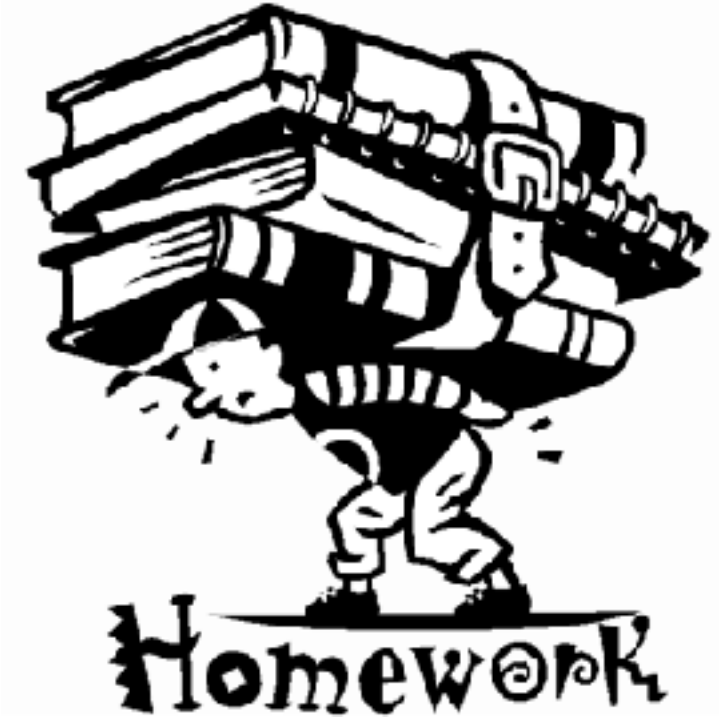
Mobile Responsive (HW)

© 2016 | Coding Boot Camp - All Rights Reserved

Still No Facebook Time

Warning!

This next section matters a lot for your homework



© 2016 | Coding Boot Camp - All Rights Reserved

Media Queries

•**Media Queries** define how CSS styles are applied in relation to the characteristics of the viewing device.

•Through media queries we can change the way a webpage is displayed based on width, height, orientation, and even resolution.

•Bootstrap extensively uses media queries to help you create mobile responsive websites.

•But remember! Media queries must be declared last.

© 2016 | Coding Boot Camp - All Rights Reserved

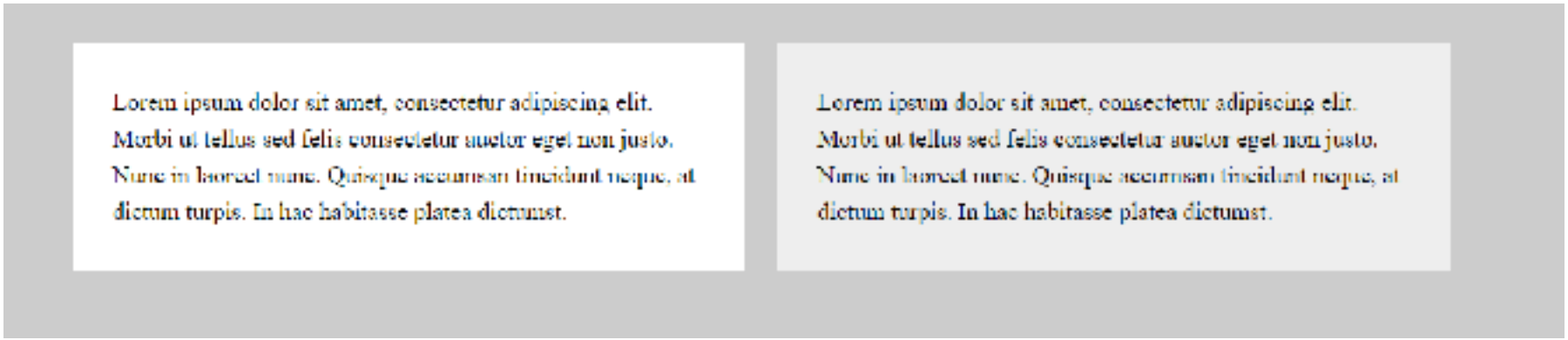
INSTRUCTOR DEMO!

Instructor: Demo

(17-InstructorMedia)

© 2016 | Coding Boot Camp - All Rights Reserved

Quick Demo



© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Activity:

Explain to your partner what the following CSS code does:

```
@media screen and (max-width: 768px) {

    body {
        background-color: #333;
    }

    .wrapper {
        width: 600px;
    }
}
```

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Activity:

Build your own mobile responsive HTML /CSS page using media queries.

Just follow the steps sent to you via Slack.

© 2016 | Coding Boot Camp - All Rights Reserved

Viewport

- **Viewport** is the user's visible area of a web page.

- Viewport controls how a web page is displayed on a mobile device. Without this, mobile devices would render the page at a typical desktop screen (scaled down).

© 2016 | Coding Boot Camp - All Rights Reserved

Viewport

No Viewport

Yes Viewport

© 2016 | Coding Boot Camp - All Rights Reserved

Viewport Inclusion

Just include this line in the head

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

And then include a variety of @media queries for various sized screens.

```
@media screen and (max-width: 768px) {
```

```
@media screen and (max-width: 480px) {
```

© 2016 | Coding Boot Camp - All Rights Reserved

> YOUR TURN!!

Activity:

Spend the next few moments on the site viewportemulator.com and visit your favorite websites using various viewports.

Notice how the sites change display wise.

© 2016 | Coding Boot Camp - All Rights Reserved

Questions?

© 2016 | Coding Boot Camp - All Rights Reserved