

Day 6

# *Behold Bootstrap!*

---

July, 2, 2016



UCF CODING BOOT CAMP

**Heeeelp Meeeee.....**



**Hhhhlub**

**lub**

**lub**

# We've been there...





take a deep breath.





IT'S ALL GOING  
TO BE OKAY.

**YOU ARE**  
FREAKING  
**AWESOME**



# *Today's Class*

---

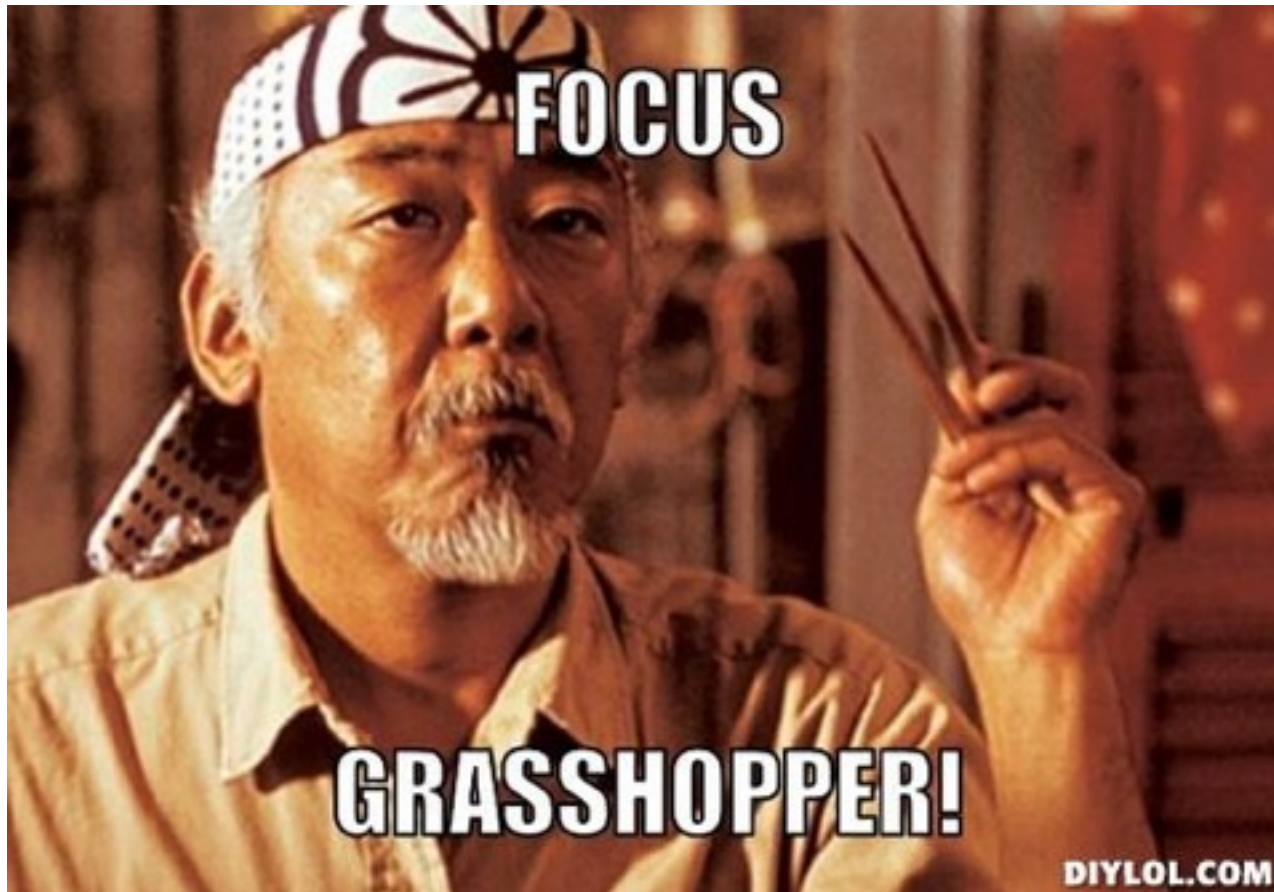
# Objectives

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1. Students will use **Twitter Bootstrap** to create layouts
2. Students will learn to use **media queries** for mobile responsive websites
3. Students will learn to use the **viewport** tag to make sure all devices are displaying web pages optimally



# Focus!

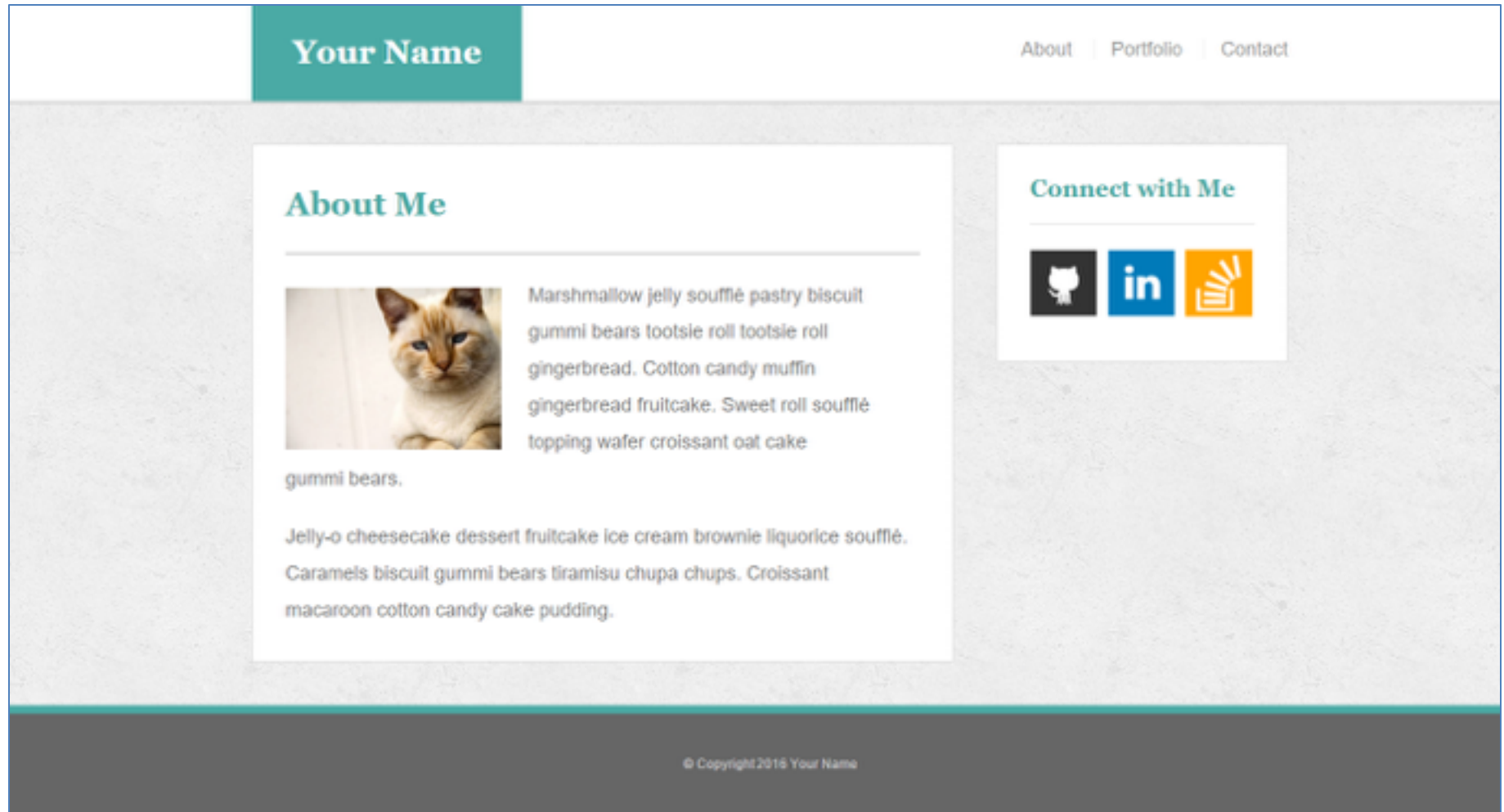


***This stuff is important...***

# ***Recap Bootstrap***

---

# The Pains of HW 1



***Plan HTML + CSS makes layout building challenging***

# How You (Probably) Feel About CSS





# 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 adipiscing elit. Quis, molestiae modi accusantium animi magnam veniam, impedit asperiores sint consequuntur debitis fugit quibusdam dolor, iusto sed porro ab minus voluptatibus amet.



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



## 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>
```

# 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"**



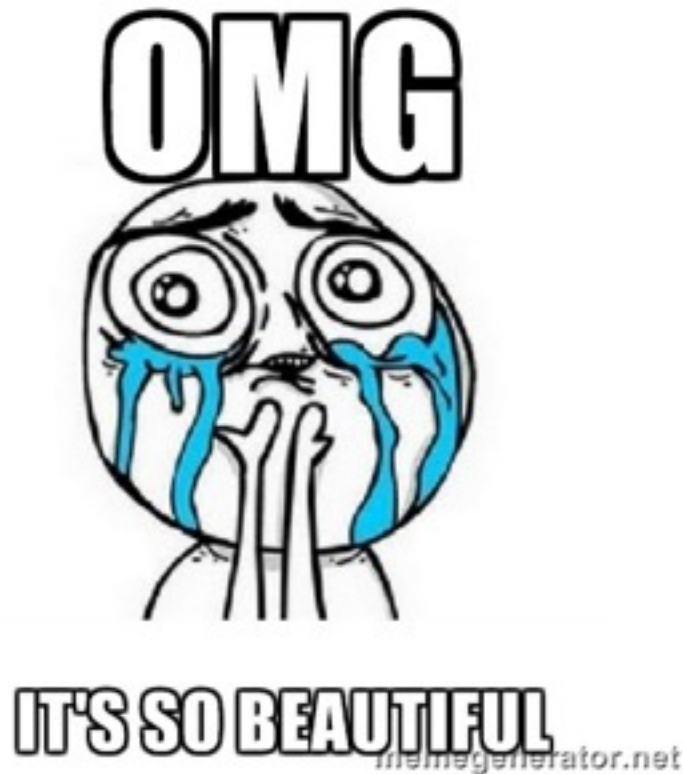
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quis, molestiae modi accusantium animi magnam veniam, impedit asperiores sint consequuntur debitis fugit quibusdam dolor, iusto sed porro ab minus voluptatibus amet.



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



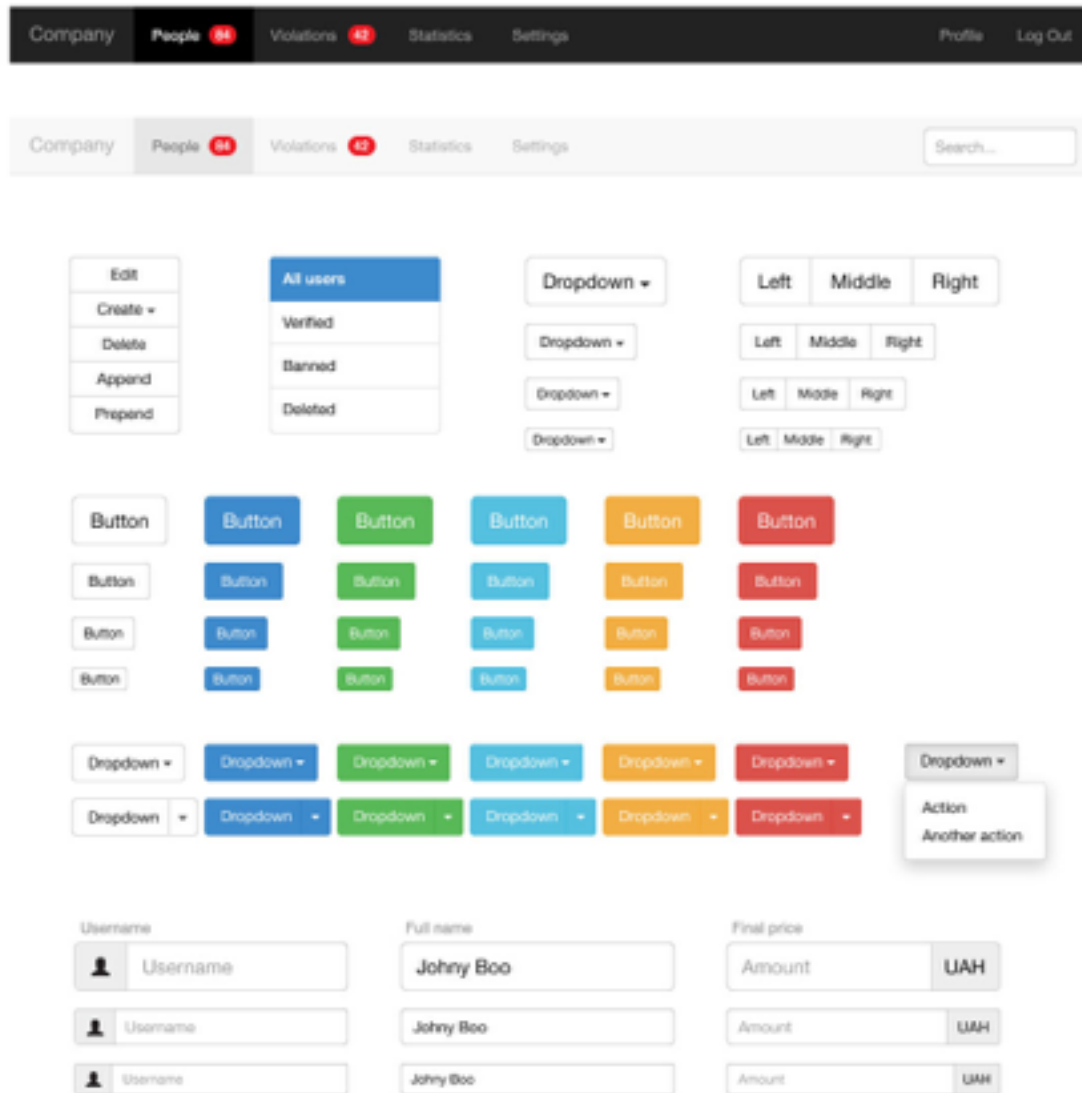
# Big Deal!!!



***Using Bootstrap,  
we have PRE-DEFINED CSS Styles.***



# 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.

# 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.



# > YOUR TURN!!

---

## Warmup Activity:

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

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.*

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

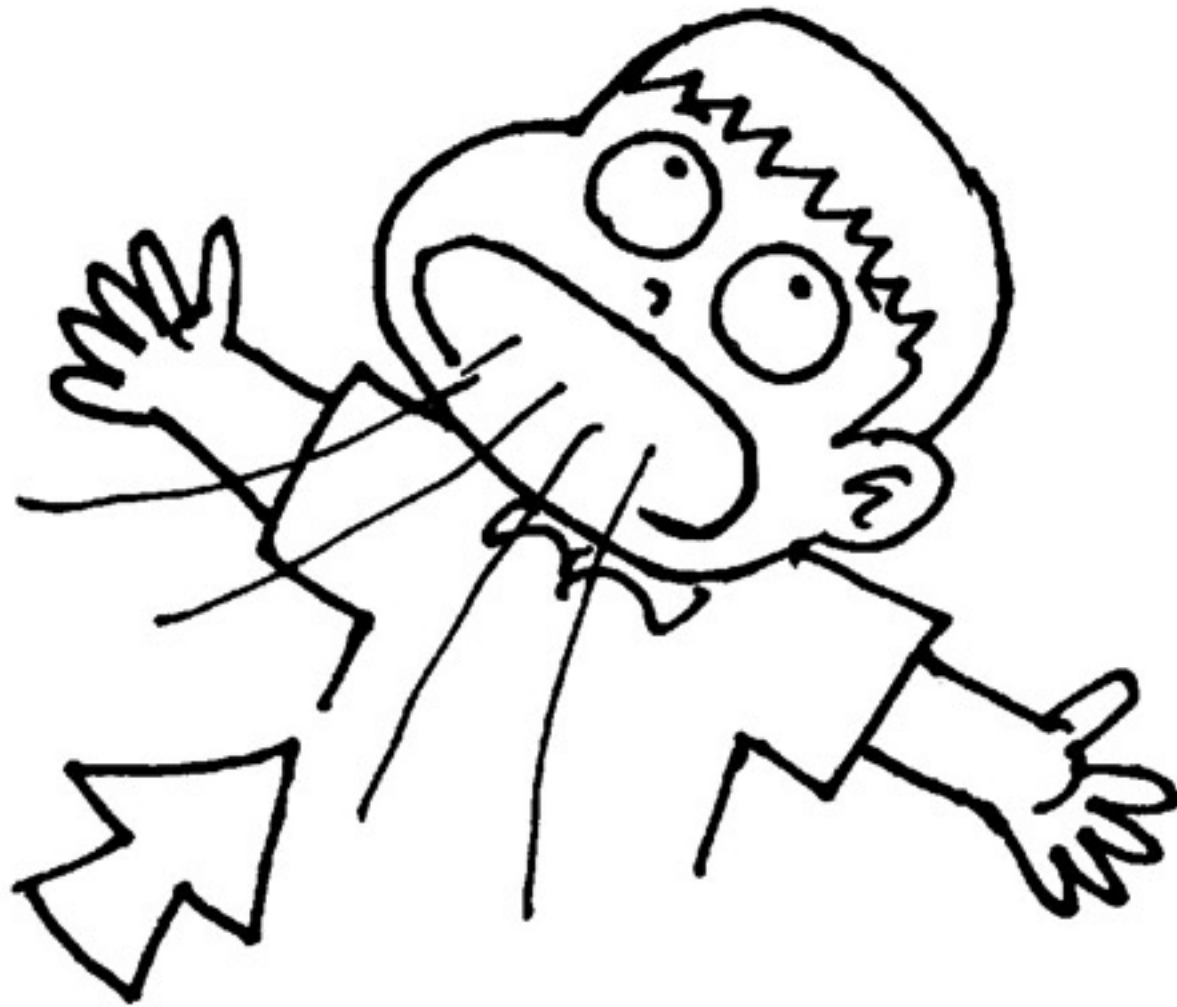
***Today we'll be focused on using Bootstrap to build layouts.***



# ***Sketching / Grid Layouts***

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# Take 5 Huge Breaths...



# FOCUS!

Because in our opinion, these next two sections are of the  
**MOST IMPORTANT ONES**  
in the ENTIRE program.



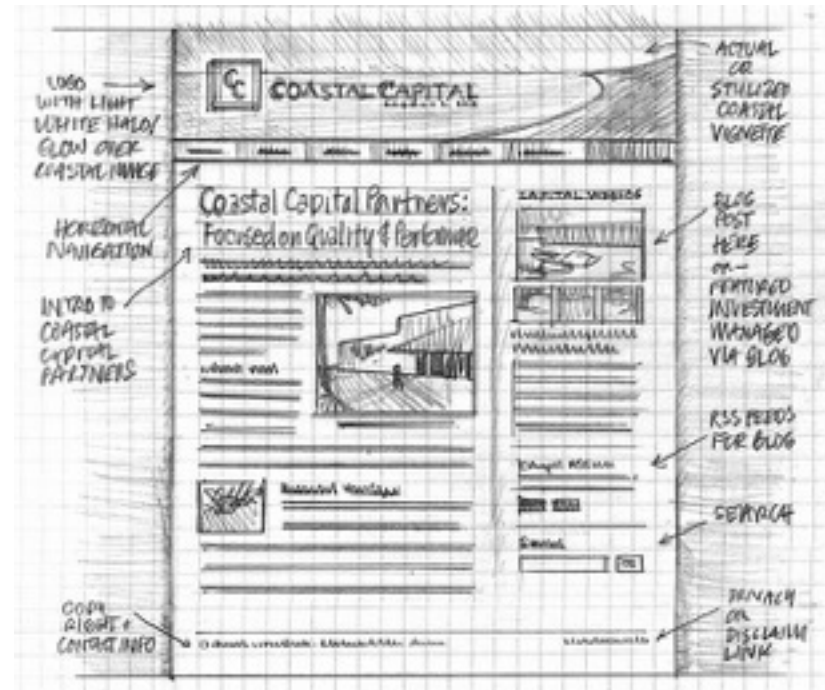
*Facebook surf at your own peril (and to the peril of the galaxy)*

Relax. That doesn't mean its hard.

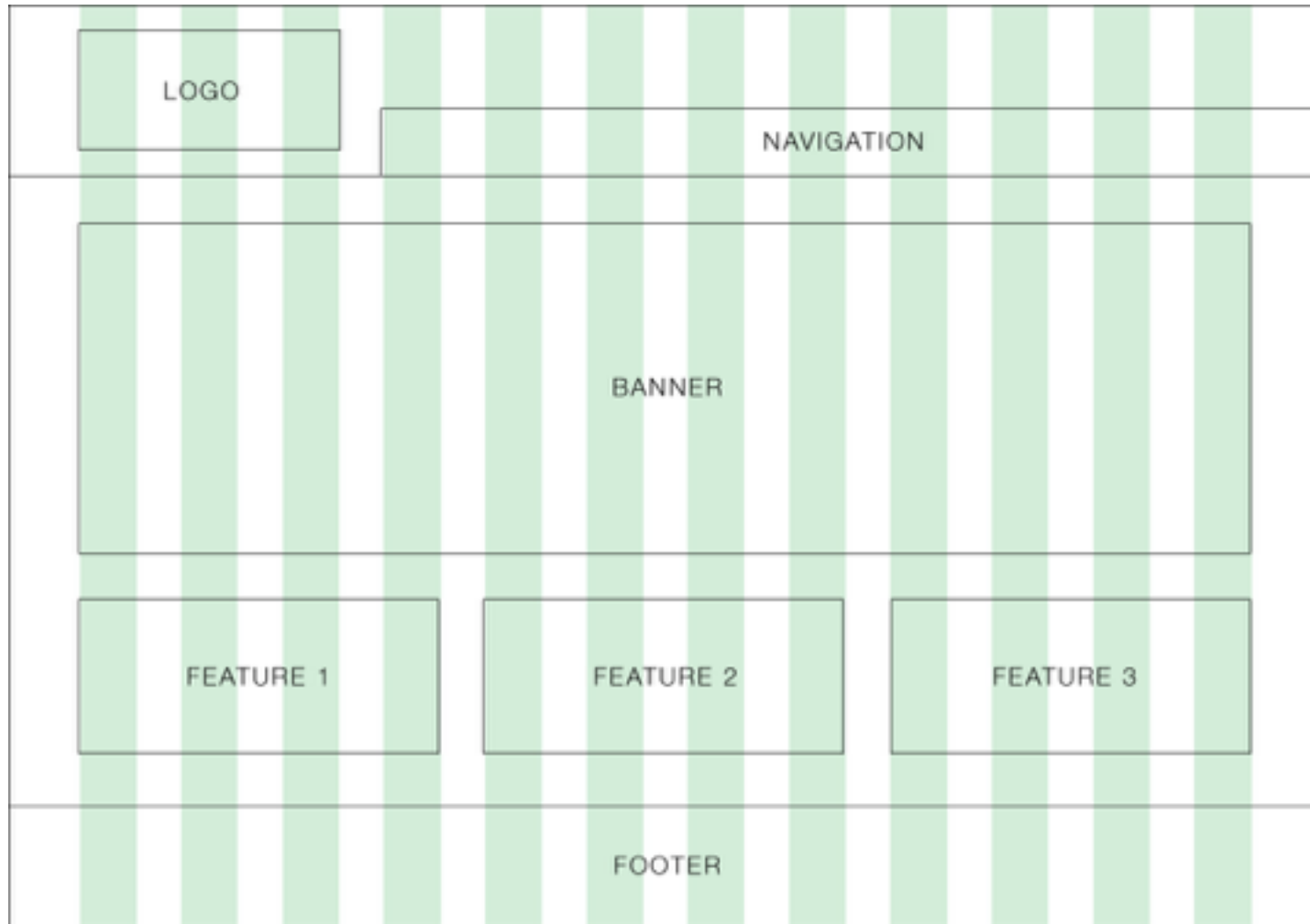


# Importance of Sketches

- 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**

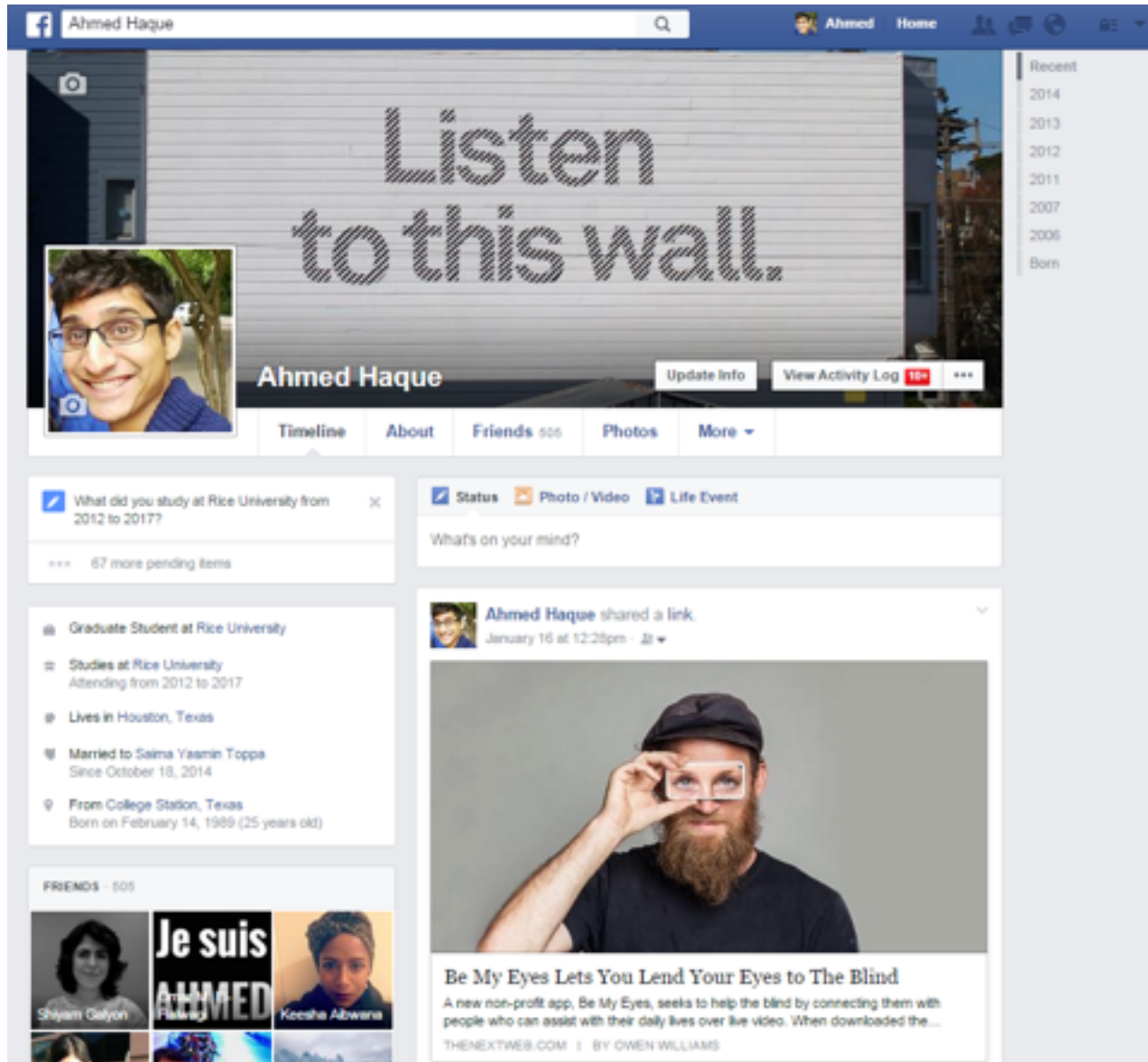


# Designing with a Grid in Mind



- Grids serve to align elements aesthetically.

# 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.

# A More Complex Grid...

The screenshot displays the Guardian website's homepage with a complex grid layout. At the top, a navigation bar includes links for 'Edition: UK', 'Sign in', 'Mobile', 'About us', 'Today's paper', and 'Subscribe'. Below this is a large advertisement for Chromebooks, featuring an image of a laptop, the text 'FROM £199', and a 'Buy now' button. The main header area includes the Guardian logo, a search bar, and a weather widget for London showing 2°C. A horizontal menu lists various news categories such as News, Sport, Comment, Culture, Business, Money, Life & style, Travel, Environment, Tech, TV, Video, Dating, Offers, and Jobs. Below the menu, a 'Breaking news' section highlights a story about Mississippi's sole abortion clinic. The main content area is divided into three columns. The left column features a large article titled 'Cameron takes on tax avoiders in Davos speech' with a sub-headline 'Prime minister strongly attacks companies that avoid paying tax as he lays out agenda for G8 summit in June'. It includes a small image of David Cameron and a list of related links. The middle column features a large image of Denzel Washington with the headline 'Denzel Washington interview: I don't want movie-star friends'. The right column contains a 'guardianjobs' advertisement and an 'Online dating' section. The bottom of the page shows a small article titled 'Iran fakes blogs to smear journalists'.

# A More Complex Grid...

EDITION: INTERNATIONAL | U.S. | MÉXICO | ARABIC

TV: CNN | CNN en Español

Set edition preference

CNN

Sign up | Log in

Hide

SEARCH

POWERED BY Google


Home | Video | World | U.S. | Africa | Asia | Europe | Latin America | Middle East | Business | World Sport | Entertainment | Tech | Travel | iReport

January 11, 2013 -- Updated 2001 GMT (0401 HKT)

Make CNN Your Homepage

EDITOR'S CHOICE

Dreamliner • Mayhem in Mali • Costa Concordia • Oscar nominations • Saudi beheading • CES 2013 • Syrian refugees



**Syria rebels claim to have taken key military base**

Syrian rebels say they have captured a base used to bomb opposition forces -- but U.N. envoy Lakhdar Brahimi insists there can be "no military solution." [FULL STORY](#)

- U.N.: Syrian war most complex in world
- Sheltering refugees from bitter cold
- Special | iReport | [CNNArabic.com](#)

**DREAMLINER WOES**

- U.S. opens probe into Dreamliner
- Dreamliner probe aimed at reliability
- Experts: 787 problems not unusual



**Why Syrian refugee lives in dread**

With young lives shattered by the continuing war in Syria, refugee Saleh tells CNN how he lives in fear that when the phone rings it will mean he has lost another brother in the fighting. [WATCH | REFUGEES FULL COVERAGE](#)

**SYRIA CRISIS**

- 

**Sheltering refugees from bitter winter**

2:23
- 

**Tracking violence against women**

6:58
- 

**Samir: Why I fight the Assad regime**

2:03

**SYRIAN REFUGEES »**

 Like <1.5m

 Follow @cnni

CNN TV



**Focus on plight of Syrian refugees: Digging in for Winter**

TV Programs

Full Schedule


WEATHER

Enter a U.S. Zip or Intl city

GO

London, United Kingdom

Current conditions

 1° Cloudy

Hi 5° | Lo 2°

10-day

Feels like -1°



# 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>





# *Rows and Columns*

---

## *Workshop*

# Web Design Fundamentally = Wireframes



<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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ROWS

1

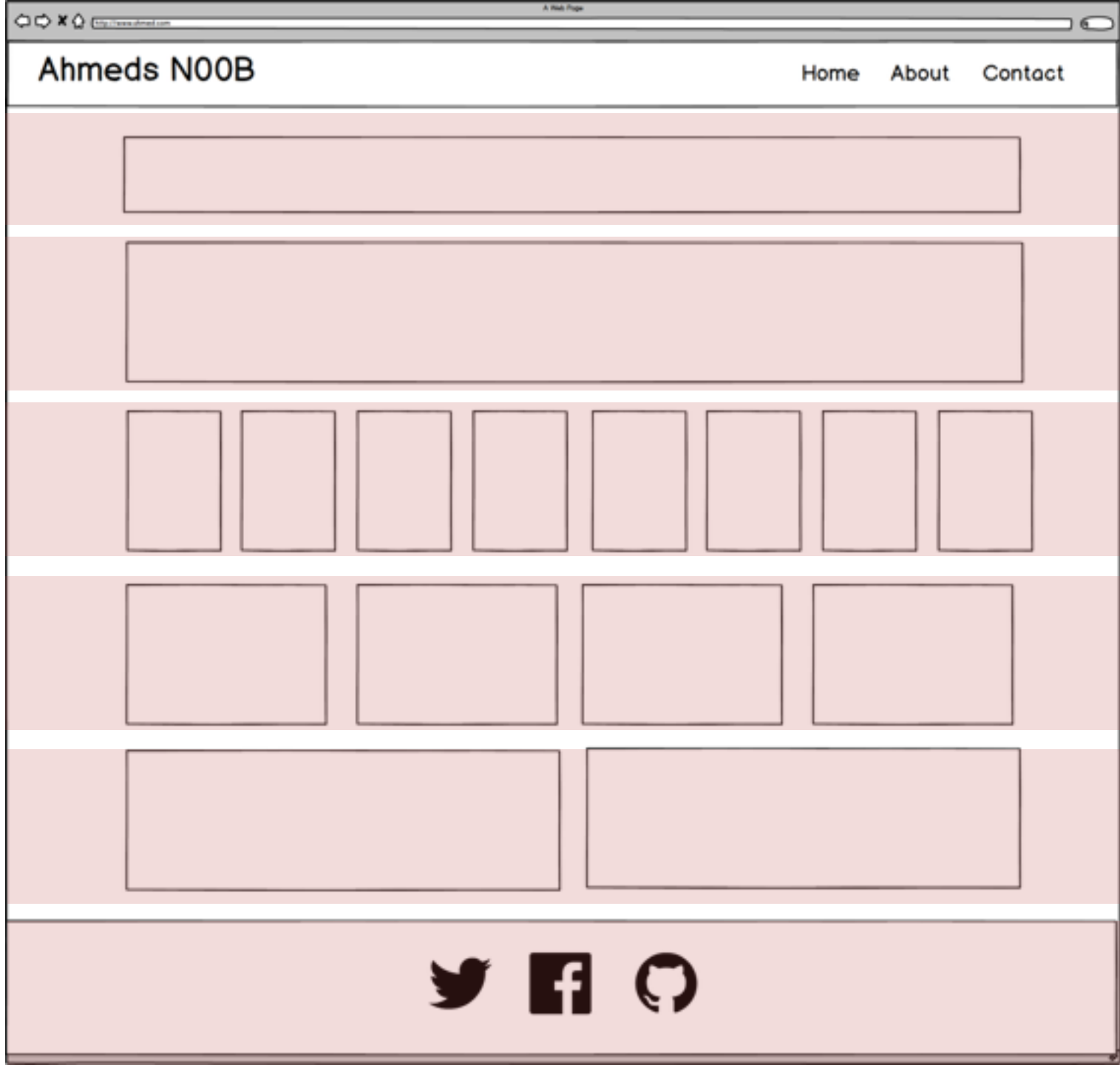
1

1

1

1

1



6  
Total

COLUMNS

1

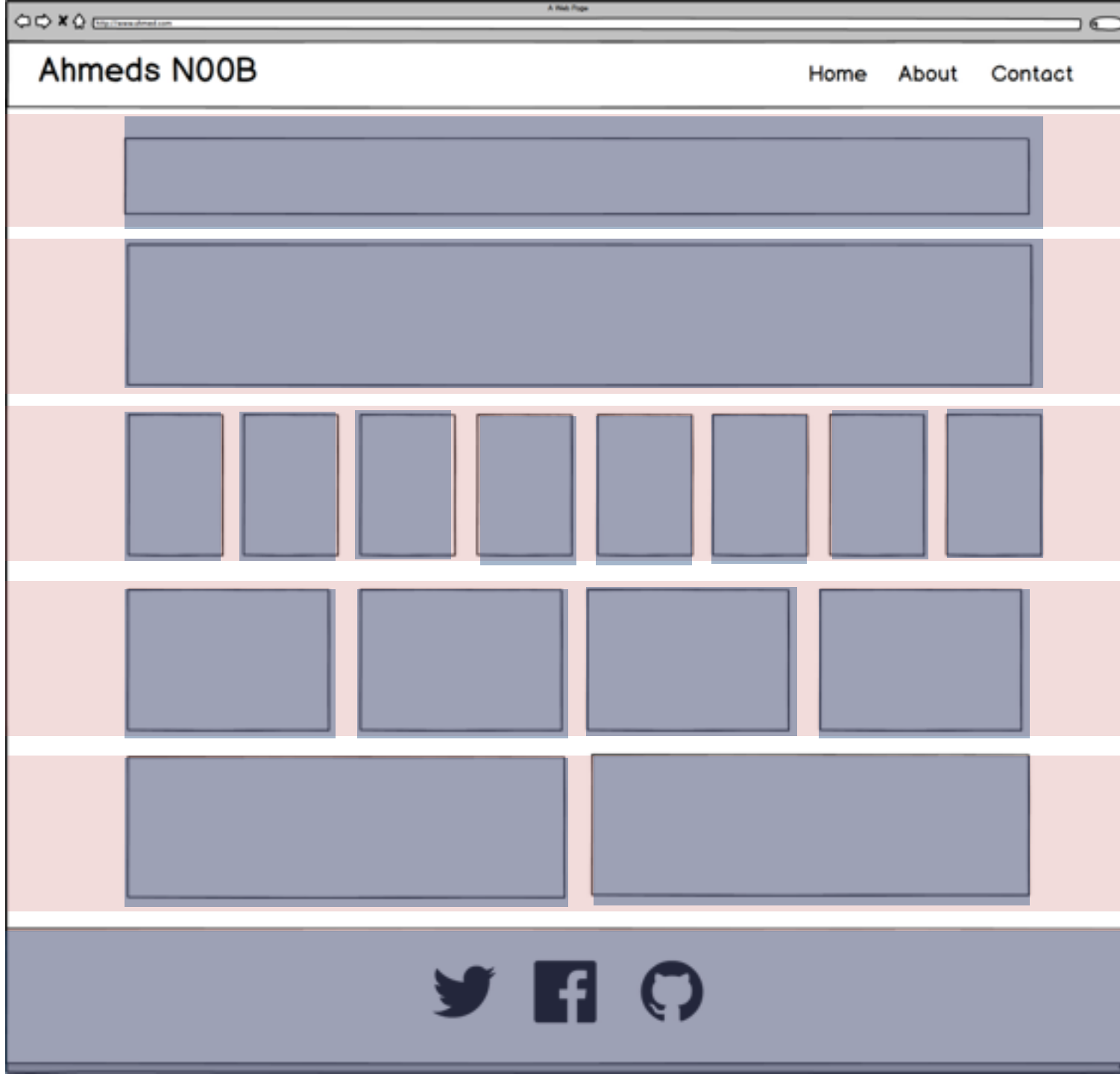
1

8

4

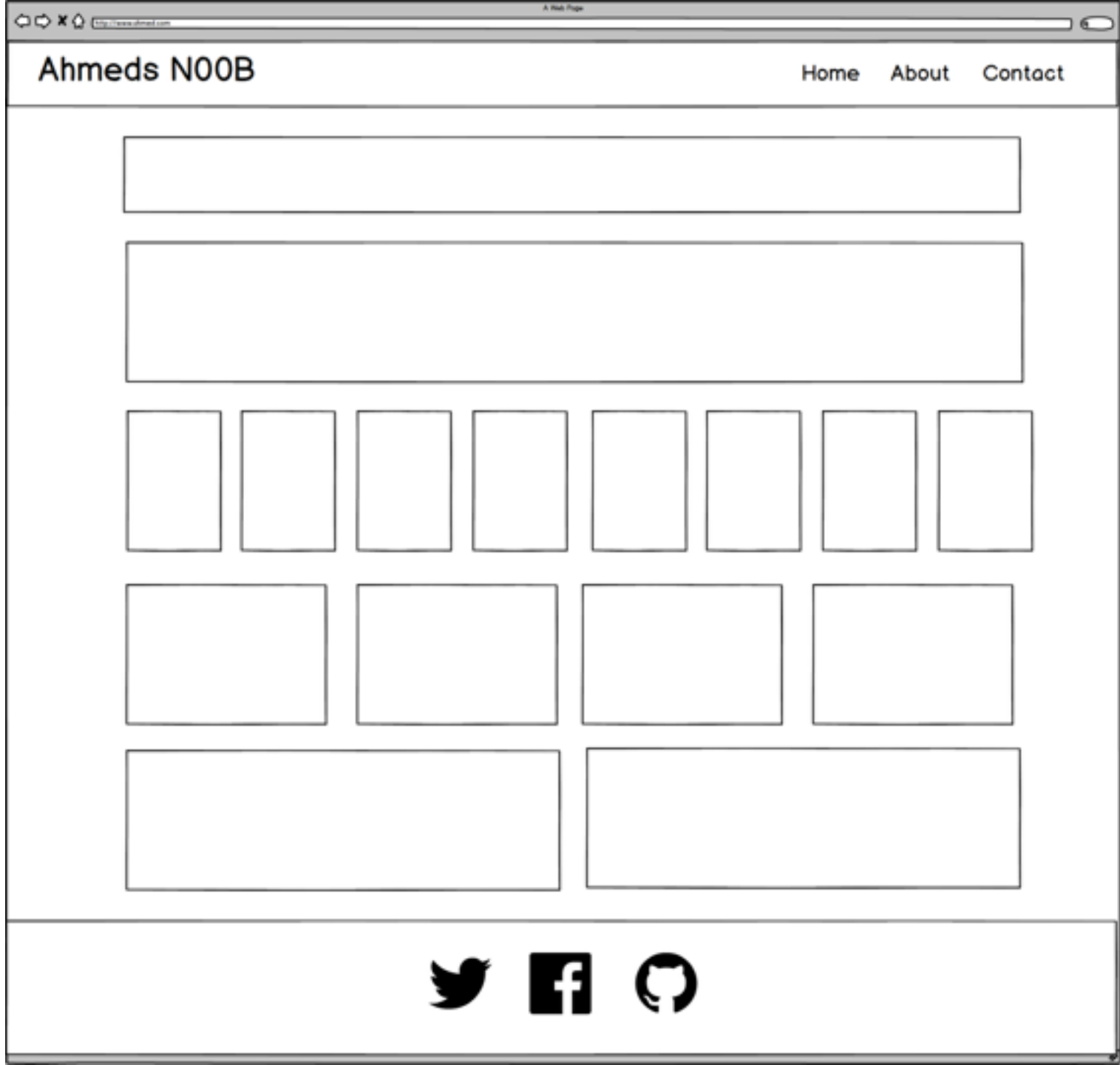
2

1



Total  
Not  
relevant

You Try!





Now, let's make it more challenging...

## Awesome Stories



### The Greatest Website Ever Made

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### The Greatest Website Ever Made

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ROWS

1

## Awesome Stories

1



### The Greatest Website Ever Made

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1



### The Greatest Website Ever Made

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1



4  
Total

COLUMNS

1

## Awesome Stories

2



## The Greatest Website Ever Made

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2



## The Greatest Website Ever Made

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1



Total  
Not  
relevant

# Level Up!

---

Now for another...

## The Greatest Website Ever Made



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## The Greatest Website Ever Made

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ROWS

1

1\*\*\*

1

1

4  
Total

COLUMNS

1

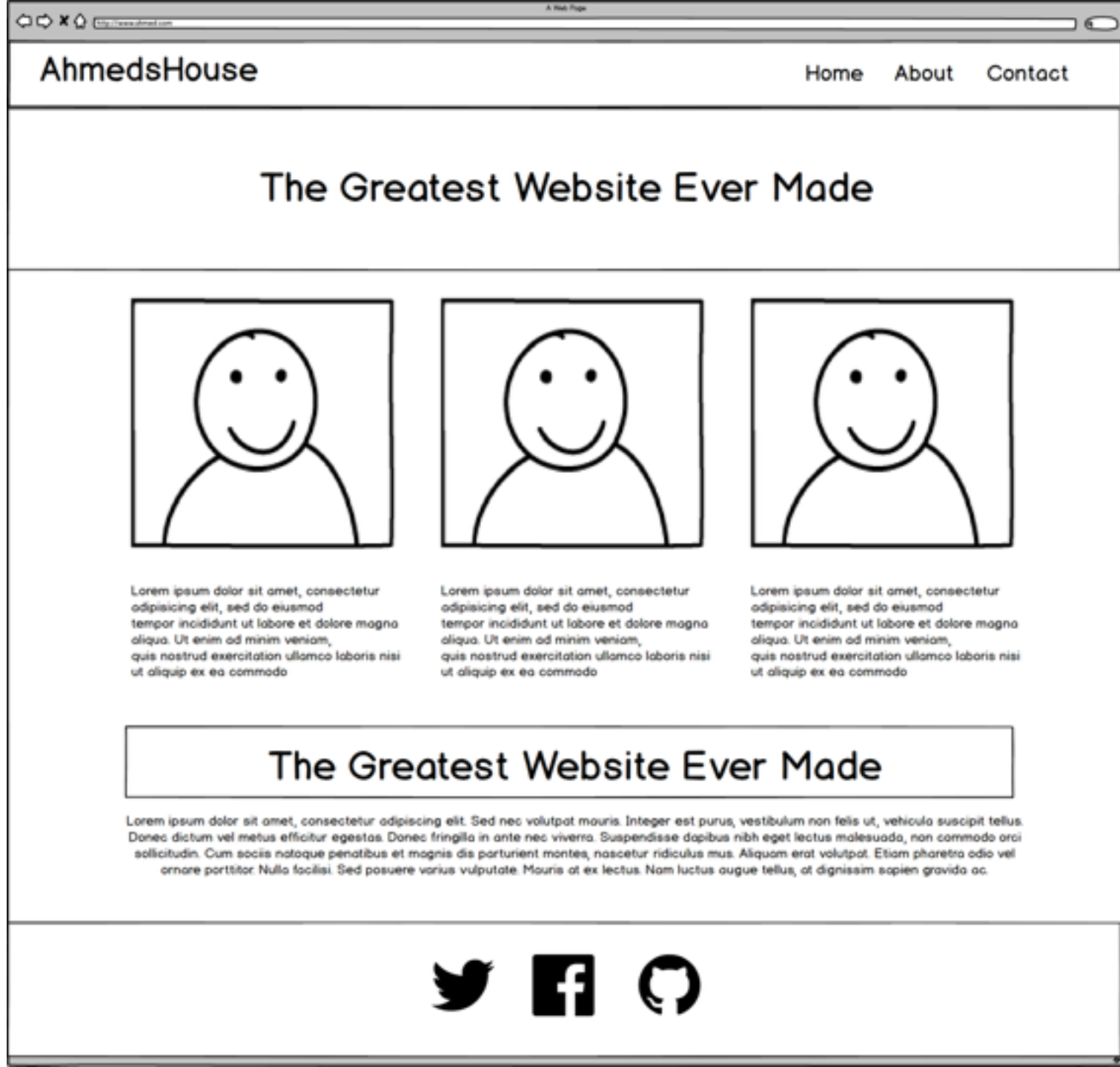
3

1

1

Total  
Not  
relevant

You Try!

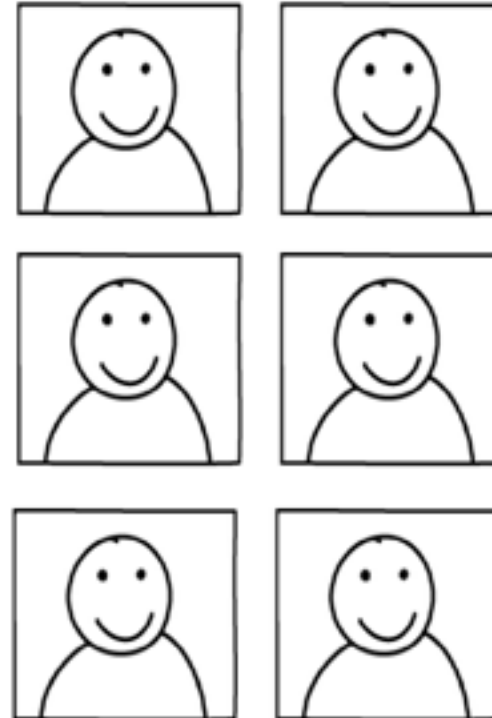


This final one is tricky...

## Awesome Photos



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Click Photo to View



Didn't quite work right?

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



[Click Photo to View](#)

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  
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COLUMNS

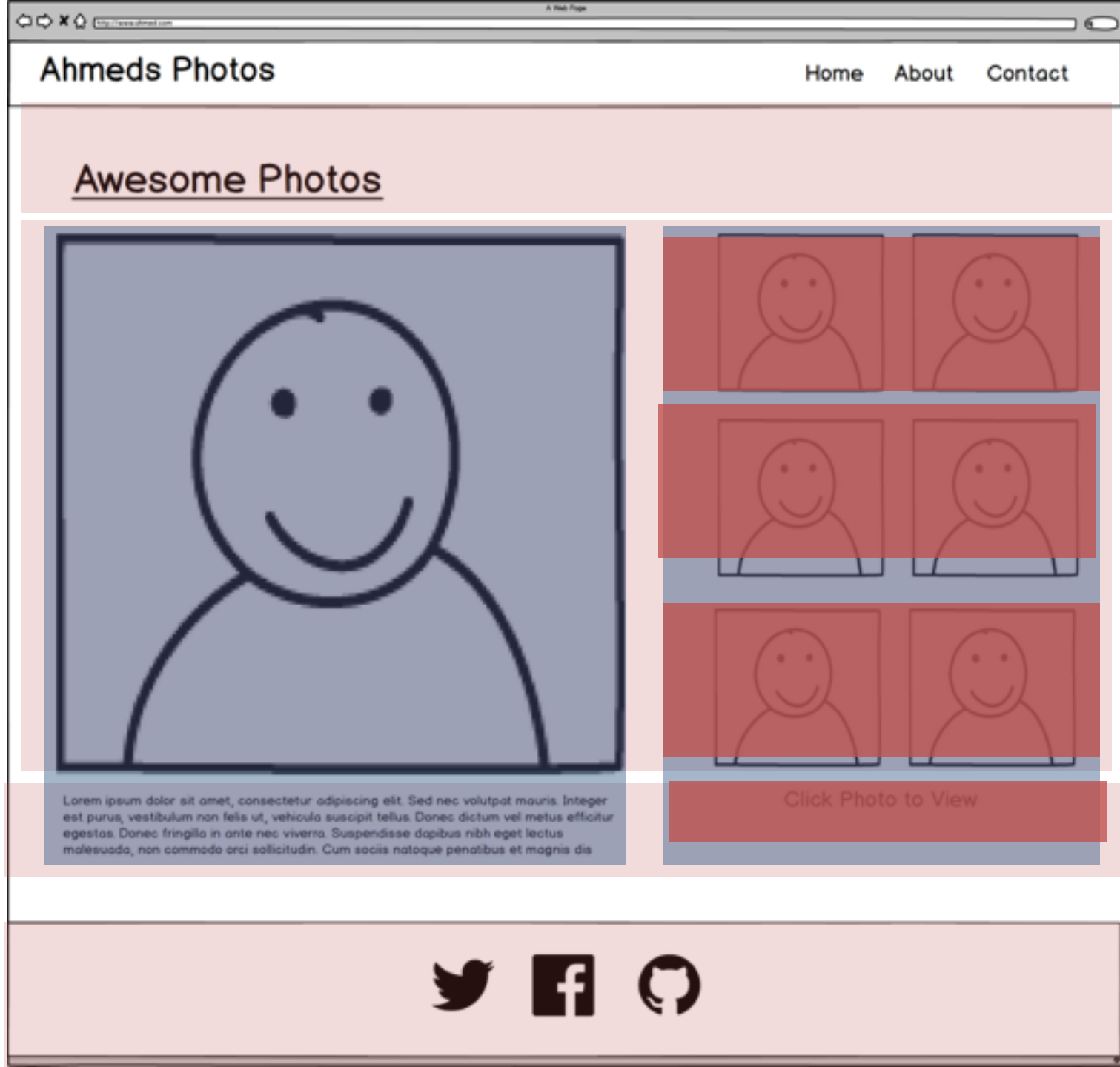
1

2

1



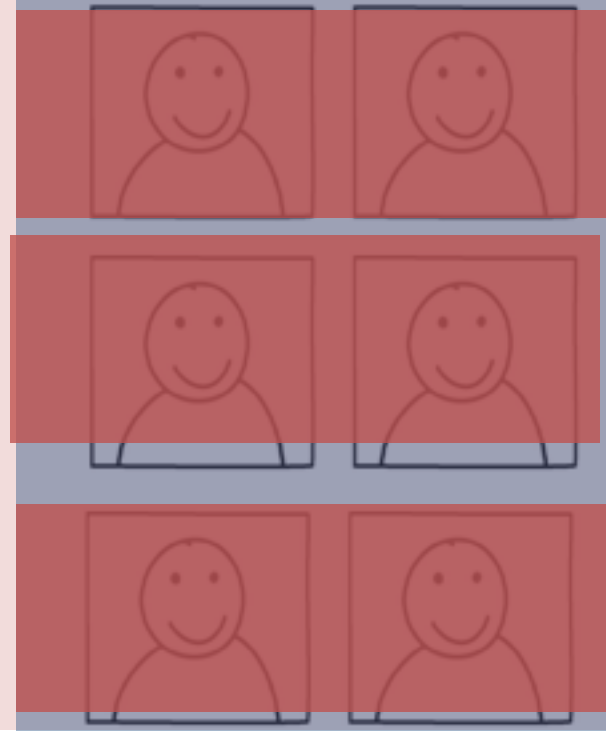
Total  
Not  
relevant



## Awesome Photos



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Click Photo to View

SUB-  
ROWS

1

1

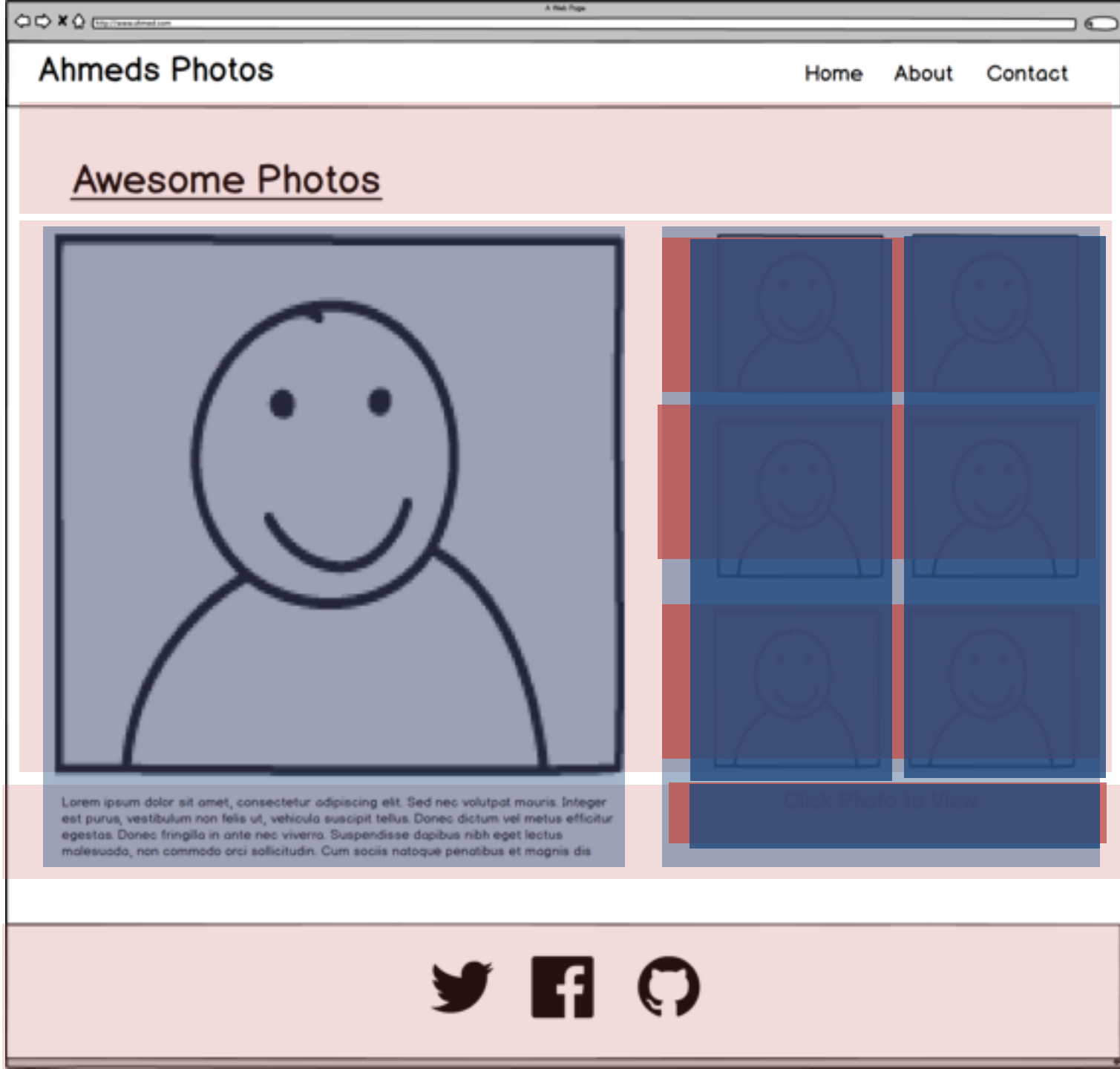
1

1

4

Total

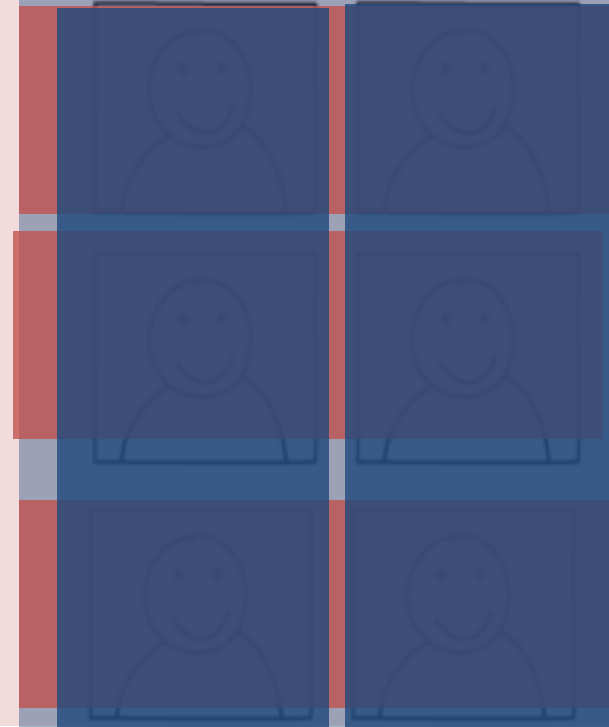




## Awesome Photos



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Click Photo to View

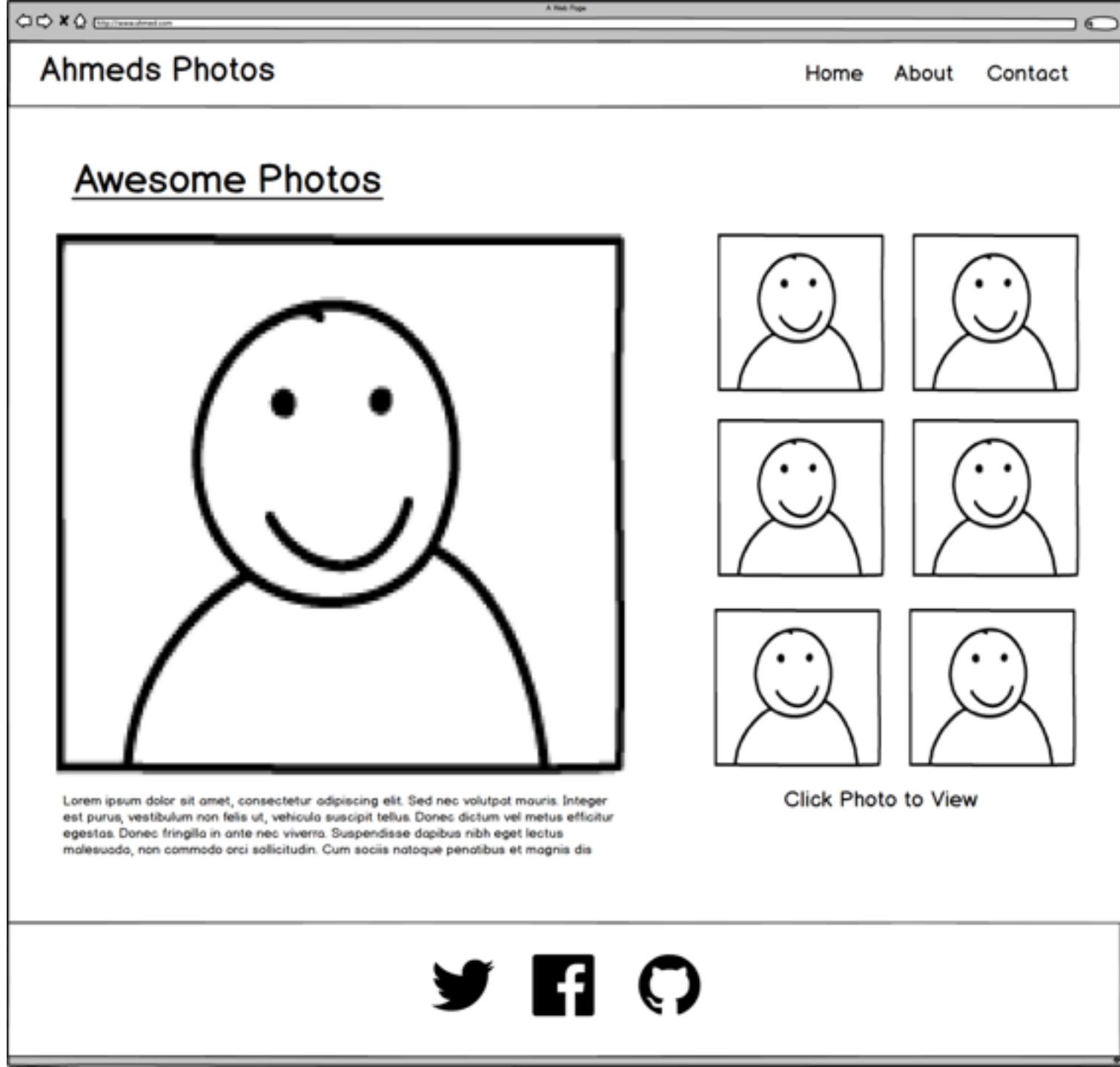


SUB-COLUMNS

2

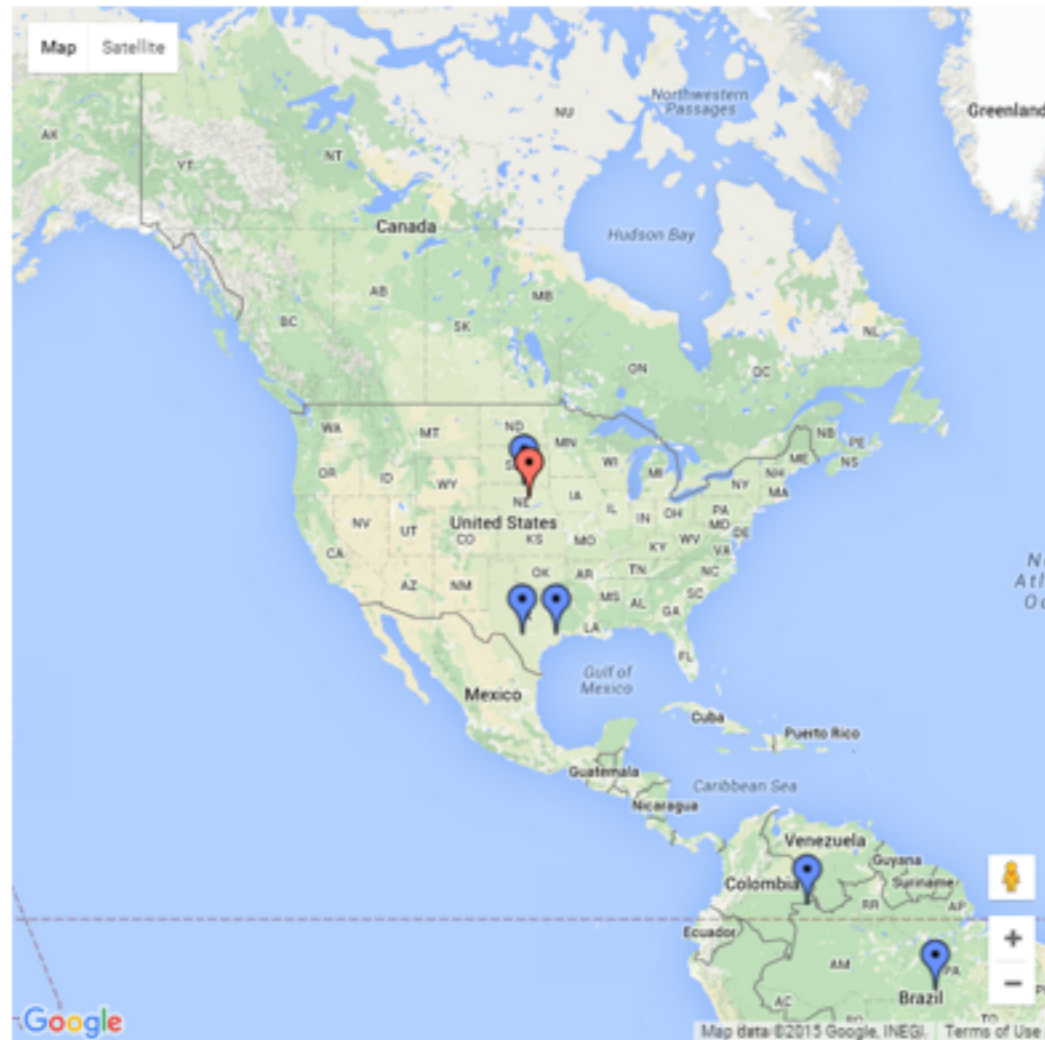
1

You Try!



## Real Example App

<https://mean-google-maps.herokuapp.com/>



## Join the Scotch Team!

Username **Required**

Gender

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

Age

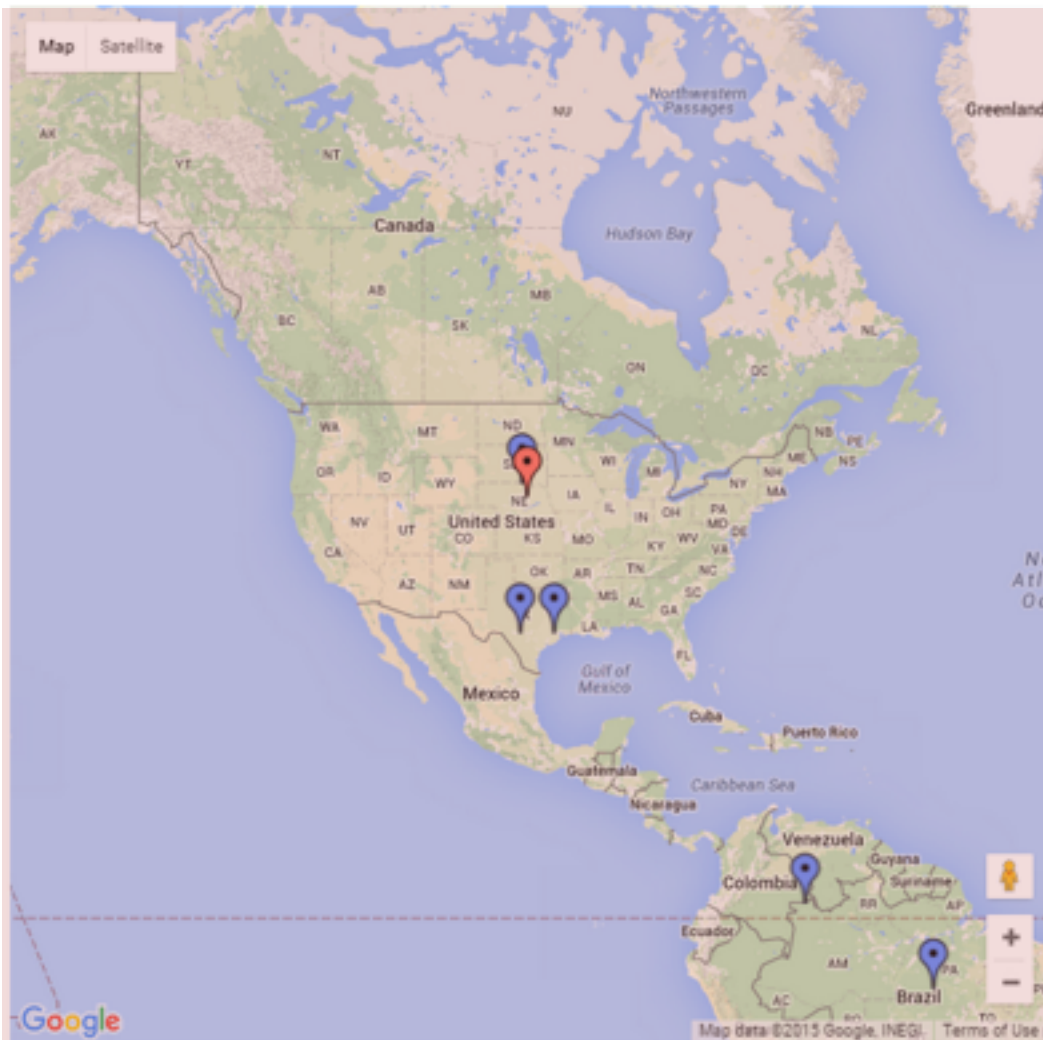
Favorite Language

Latitude

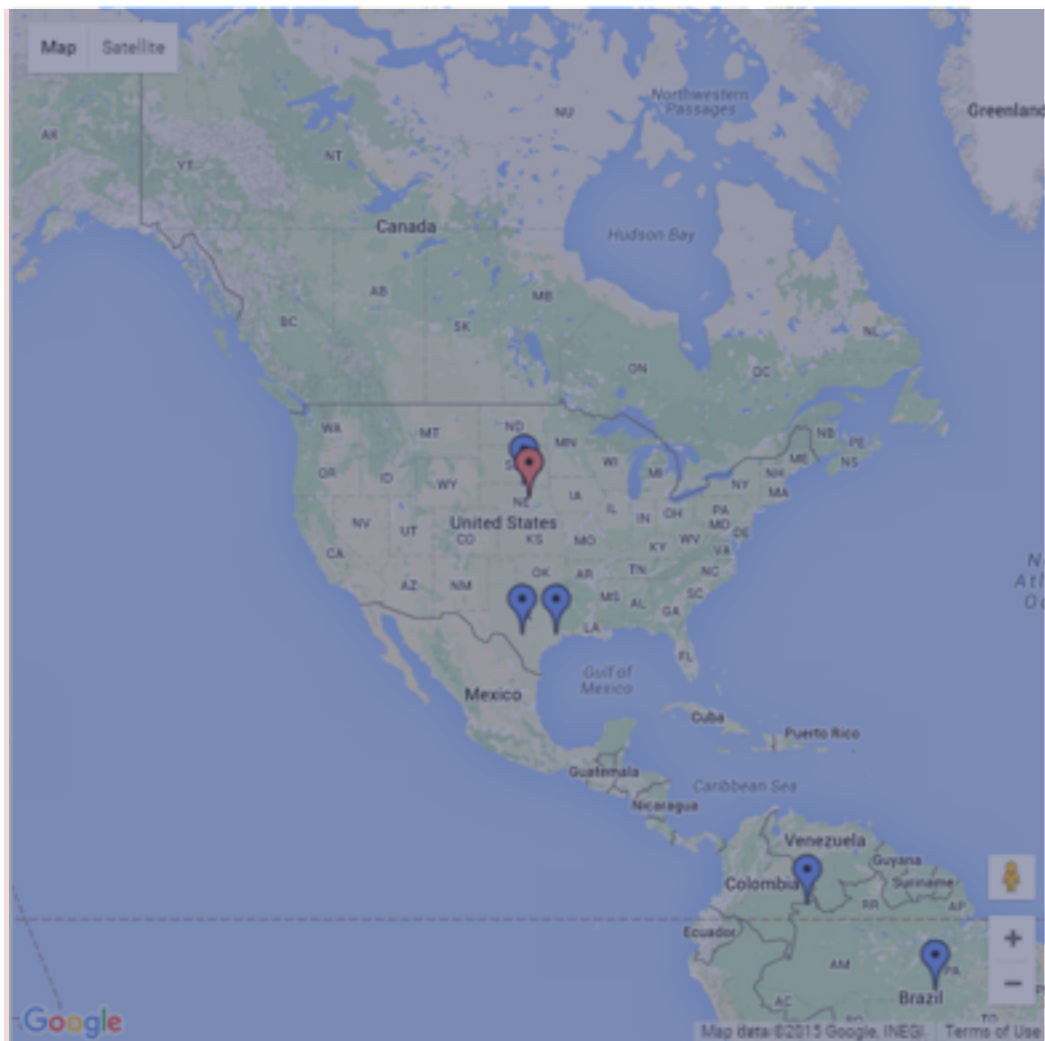
Longitude

HTML5 Verified Location?





## The Scotch MEAN MapApp

[Join the Team](#)[Find Teammates](#)

Join the Scotch Team!

**Username** Required

**Gender**

☐ Male

☐ Female

☐ What's it to ya?

**Age**

**Favorite Language**

**Latitude**

**Longitude**

**HTML5 Verified Location?**

**YOU**

**MADE**

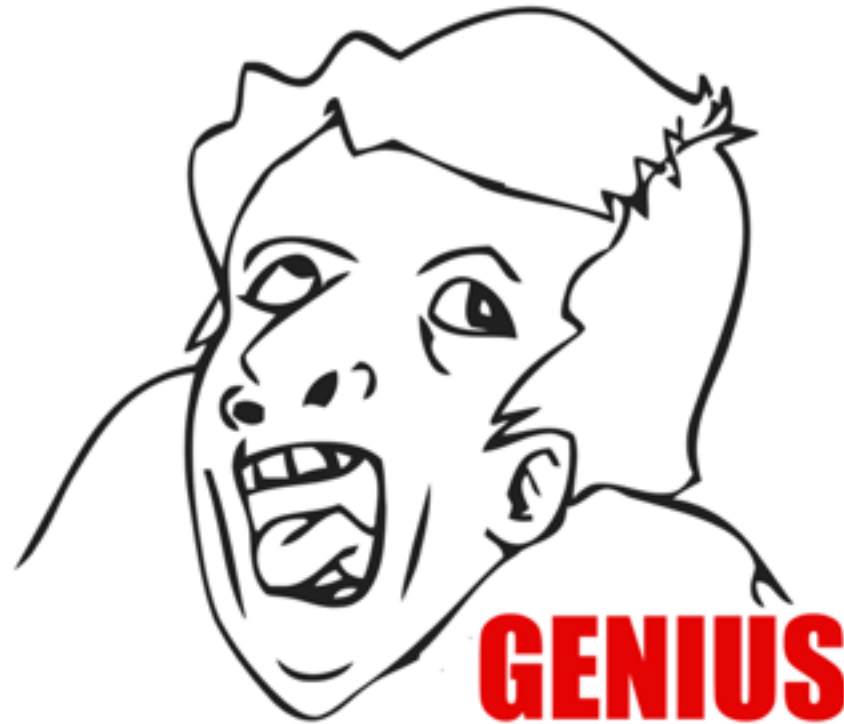
**IT**

# ***Grid Design with Bootstrap***

# More Genius Time!

## Warning!

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



Time to channel that inner genius.

## Awesome Stories



### The Greatest Website Ever Made

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### The Greatest Website Ever Made

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# Bootstrap Grid



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

## Example:

`<div class="col-md-12">`  
(Spans full width)

`<div class="col-md-4">`  
(Spans 1/3 of full width)



# 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.

# Defining Columns

Container

Row #1

Column#1

Column#2

Column#3

Column#4

# > 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)
2. The syntax for each.
3. The specific syntax details for columns.

# *Coding Grids*

---

***Instructor: Demo***  
***(quickgrid.html | 2-InstructorGrids)***

# 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

# Bootstrap Grid

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

  <!-- First Row -->
  <div class="row">
    <!-- First (and only column) -->
    <div class="col-lg-12">
```

file:///C:/Users/ahmed.LAB-OATMEAL/Desktop/BootstrapQuick.html

Apps Inbox (695) - ba... LearnerNation

I'm in Column 1 of 1. I stretch the entire width. And keep going.

I'm in Column 1 of 2

I'm in Column 2 of 2

```
</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



# 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.



# 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.

# 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 column 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)

## > 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.

# > YOUR TURN!!

## Header

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# Break!