

Day 6

Behold Bootstrap!

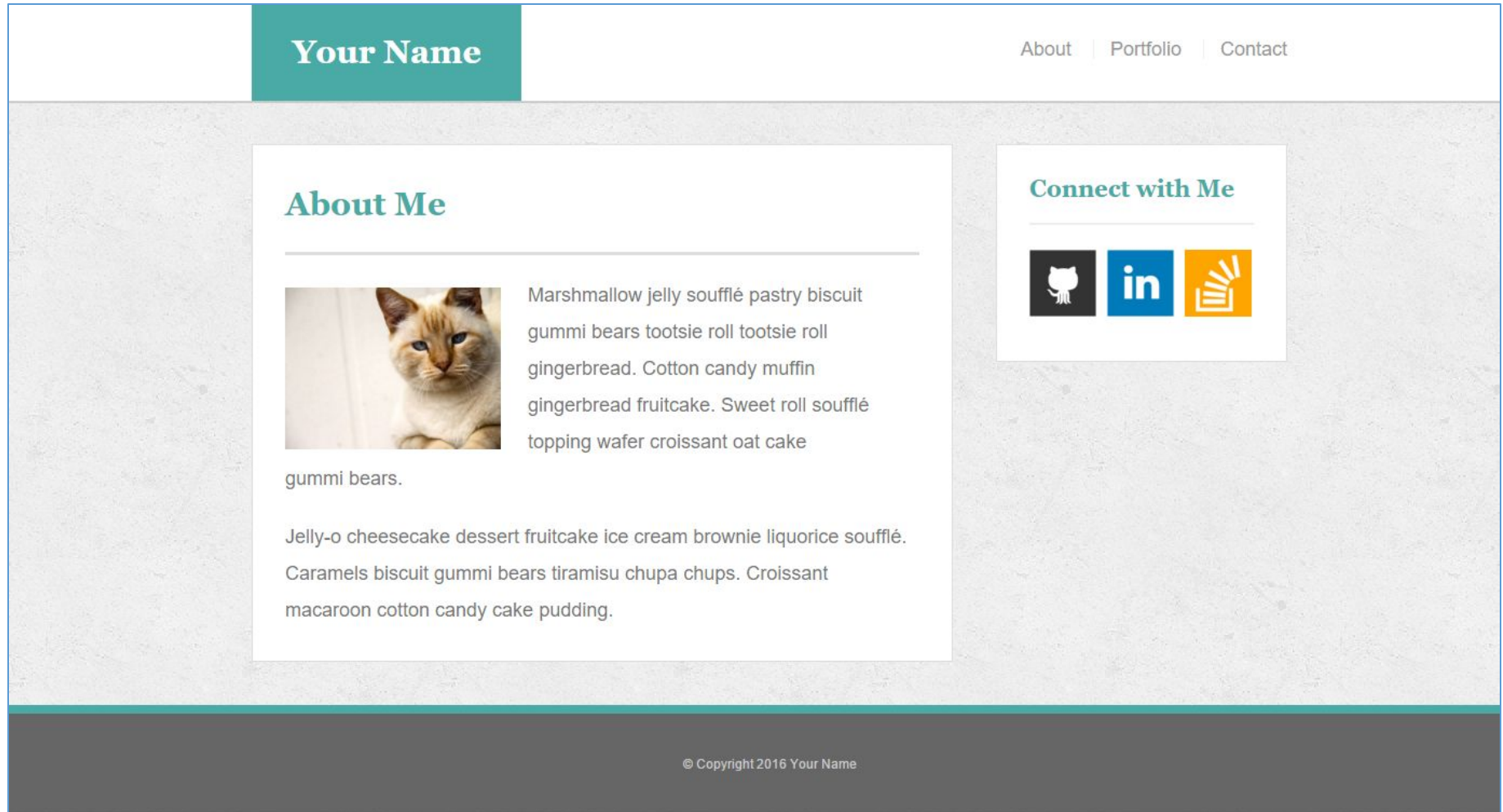
The Coding Bootcamp | July 22nd, 2016

Objectives

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

Recap Bootstrap

The Pains of HW 1



Plain HTML + CSS makes layout building challenging

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



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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>
```

Awesome Header

Smaller Awesome Header

Even Smaller Header

✉ [Learn more](#)

class="jumbotron"



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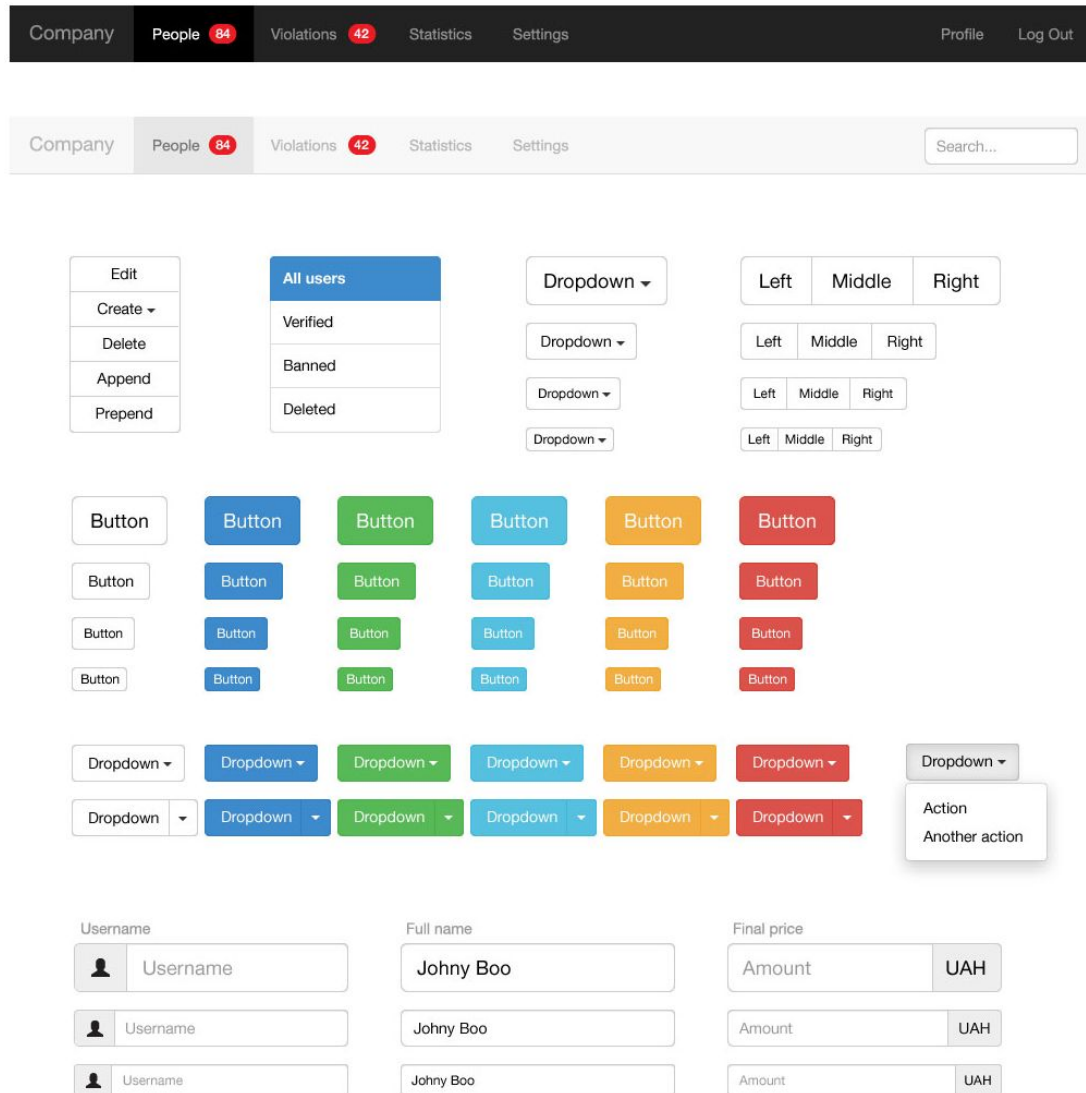
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Big Deal!!!



***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.

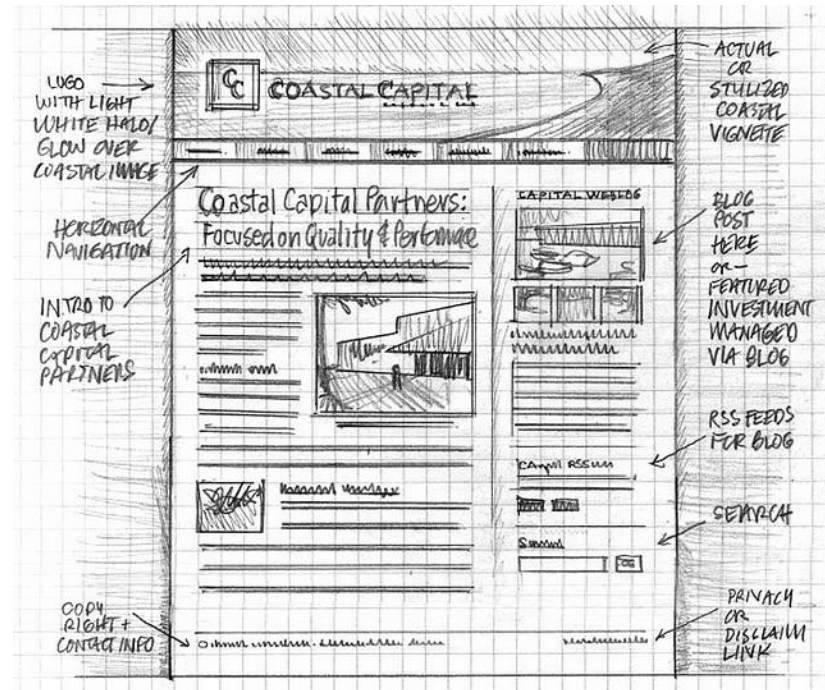
Last class, we focused on Bootstrap Components (like buttons and tables).

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

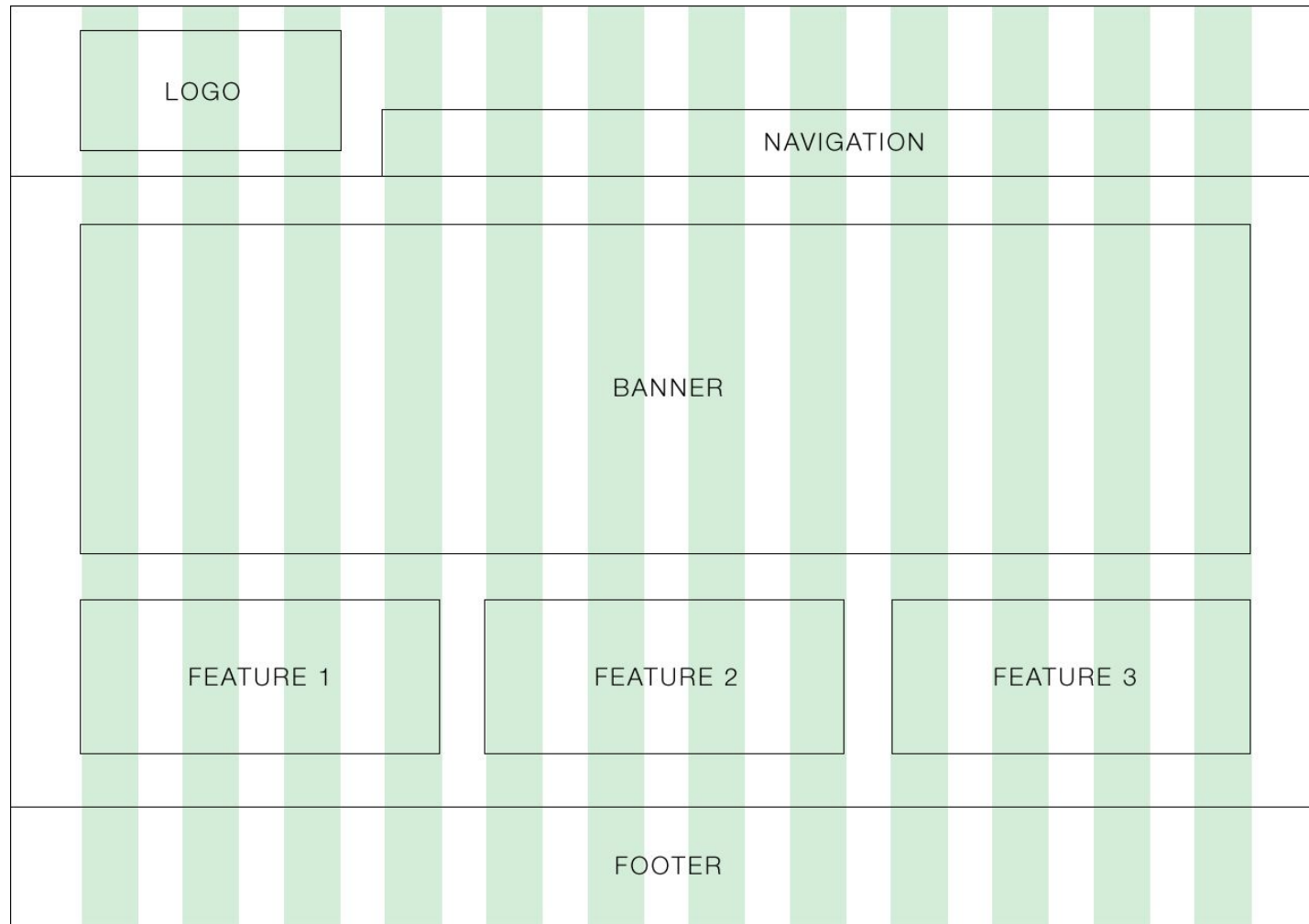
Sketching / Grid Layouts

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**

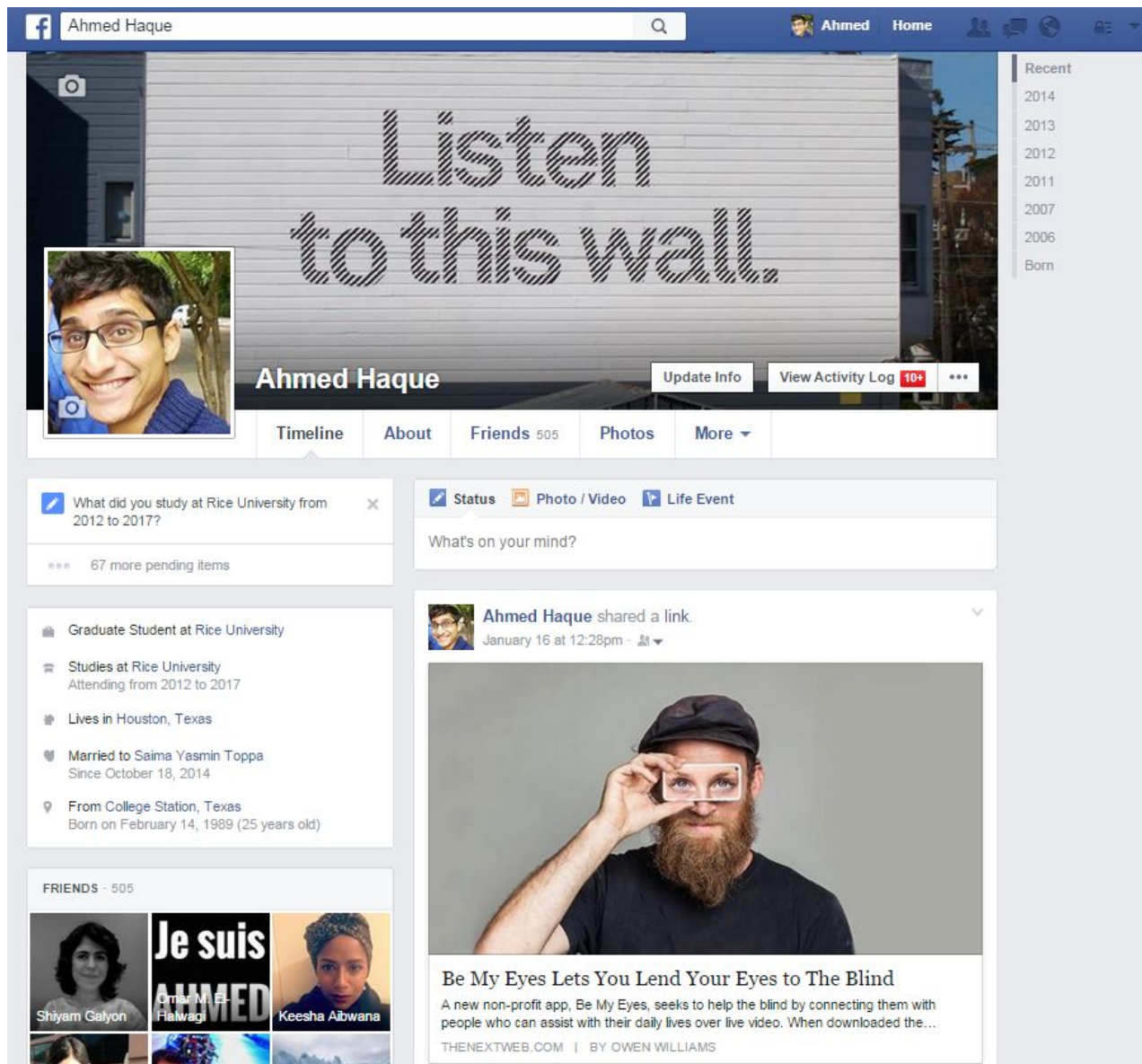


Designing with a Grid in Mind



- 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...

Edition: **UK** ▾


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[News](#) ▾ [UK](#) | [World](#) | [Development](#) | [US](#) | [Politics](#) | [Media](#) | [Education](#) | [Society](#) | [Science](#) | [Women](#) | [Law](#) | [Data](#) | [Football](#) | [Observer](#)

Breaking news: Mississippi's sole abortion clinic faces fresh legal fight to stay open [»](#)

Cameron takes on tax avoiders in Davos speech



Prime minister strongly attacks companies that avoid paying tax as he lays out agenda for G8 summit in June

478 comments


- LIVE** Davos 2013: day two - live coverage
- Richard Murphy: Tax avoidance starts at home
- Let's talk, says Merkel, after Cameron's EU speech
- Politics Weekly: Cameron promises referendum
- EU's legacy in workplaces is not to be sniffed at

Iran fakes blogs to smear journalists

BBC Persian staff become victims of online identity theft designed to discredit them

Denzel Washington interview


'I don't want movie-star friends'



guardianjobs

Guardian Schools Jobs
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Online dating



Find your soulmate with the Guardian's dating site

A More Complex Grid...

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

TV: CNN | CNN en Español

Set edition preference

CNN

Sign up | Log in

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



EBULENT KILIC/AFP/GETTY IMAGES


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



Click to play

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

5:58



Sami: Why I fight the Assad regime

2:03

SYRIAN REFUGEES »



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°

Feels like -1°

10-day

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Tools for Sketch / Grid Creation

Wireframing Tools:

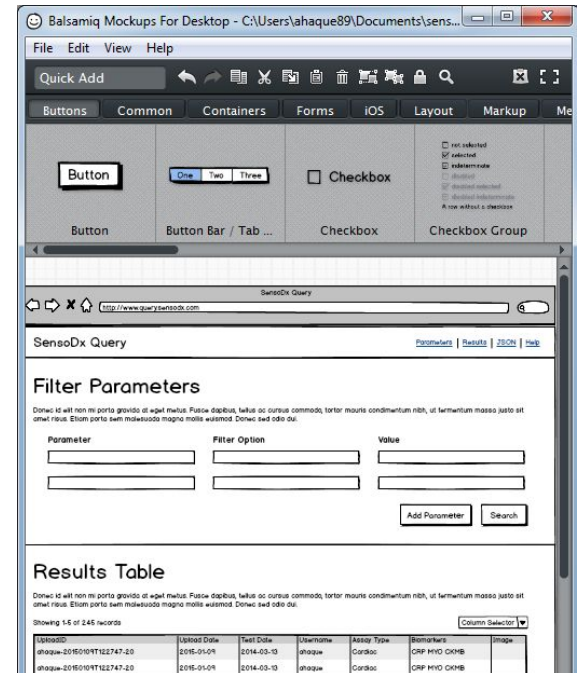
- Balsamiq***: <https://balsamiq.com/>
- Framebox: <http://framebox.org/>
- Pen and Paper: Your notebook

Grids for Photoshop / Illustrator:

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

Designing with Grids Guides:

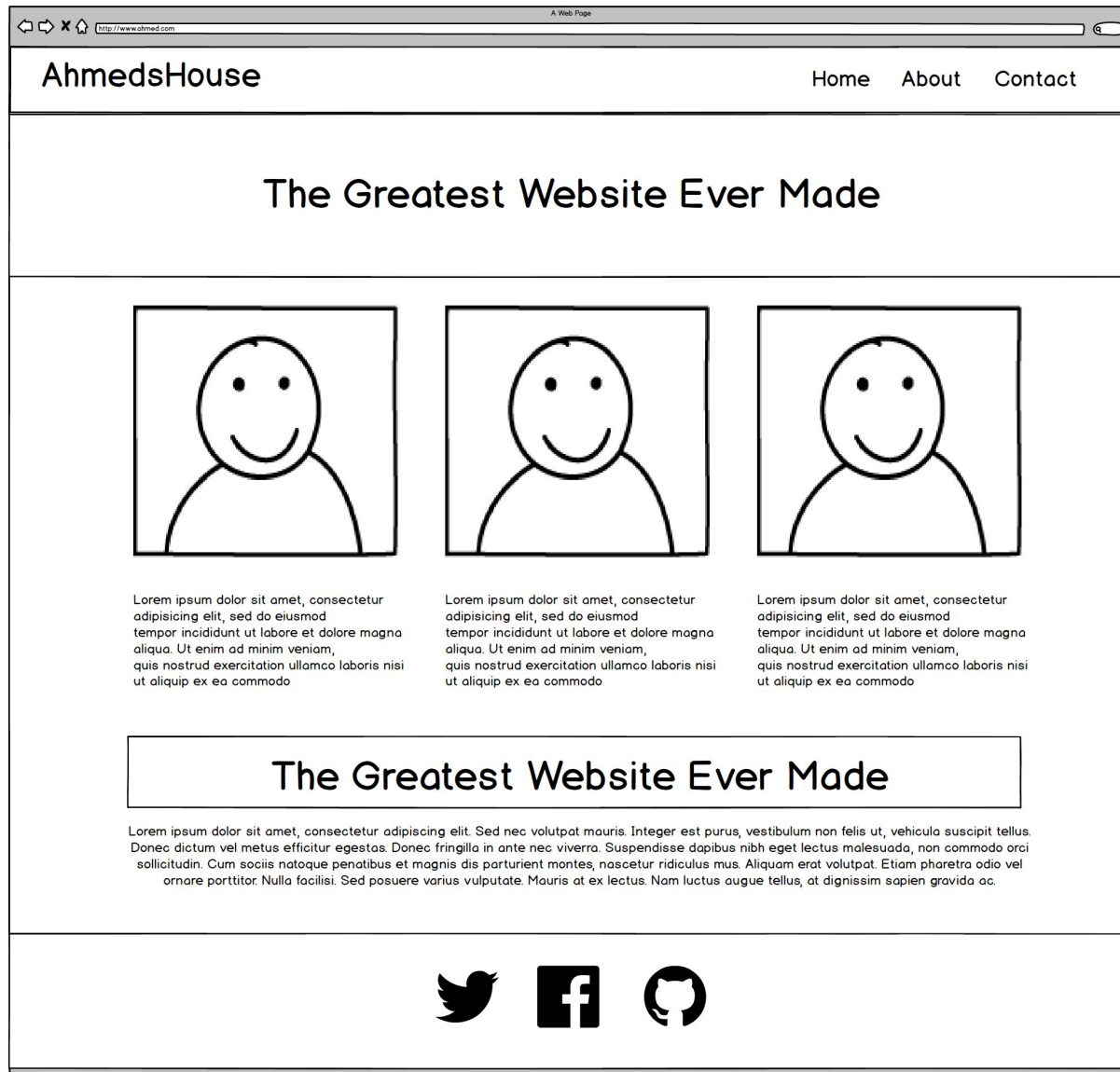
- 960 Grid System Made Easy: <http://bit.ly/1sjYaFC>
- Design by Grid: <http://www.designbygrid.com/>
- Designing with Grid-Based Approach: <http://bit.ly/1CM4Hzo>



Rows and Columns

Workshop

Web Design Fundamentally = Wireframes

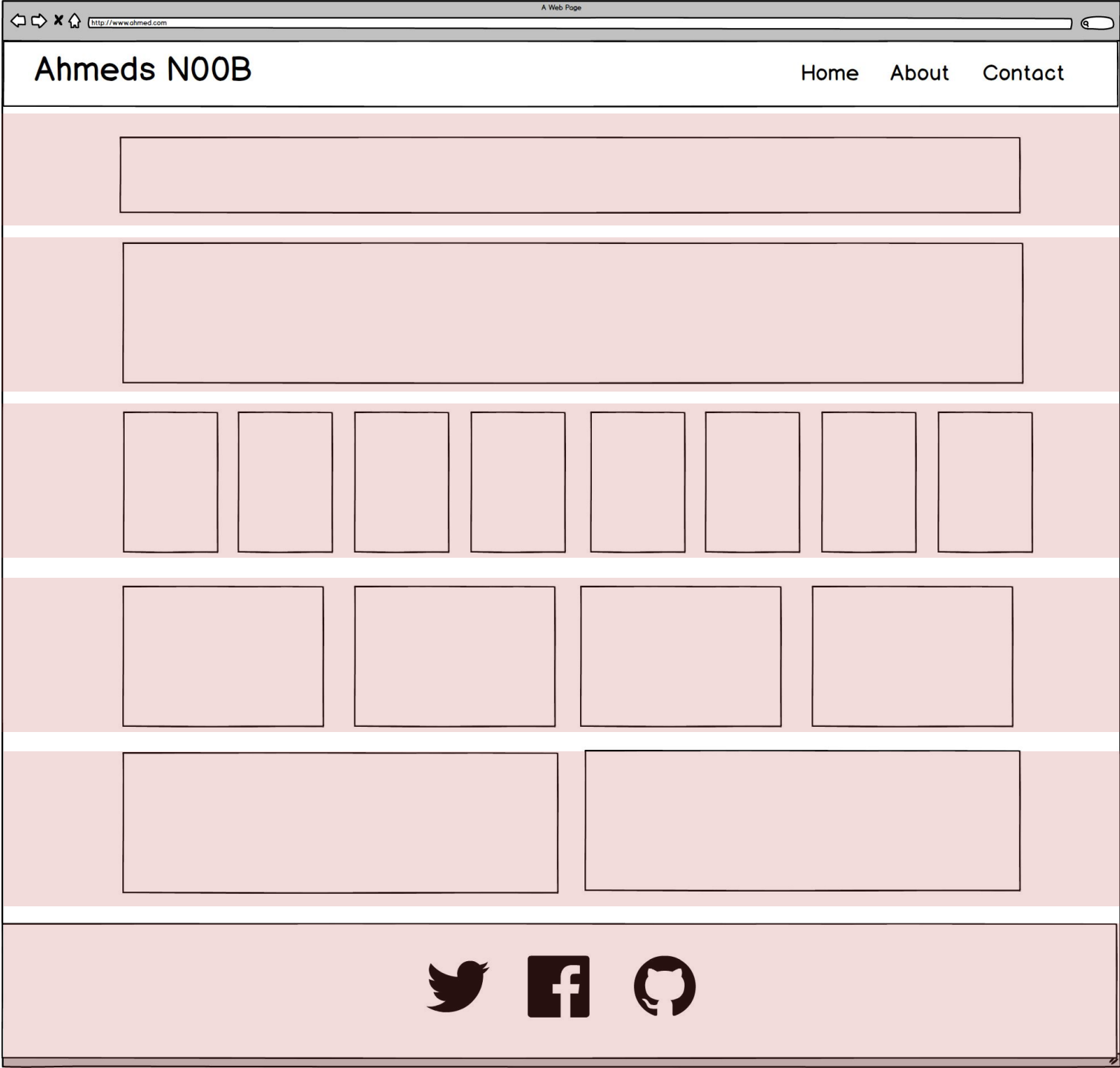


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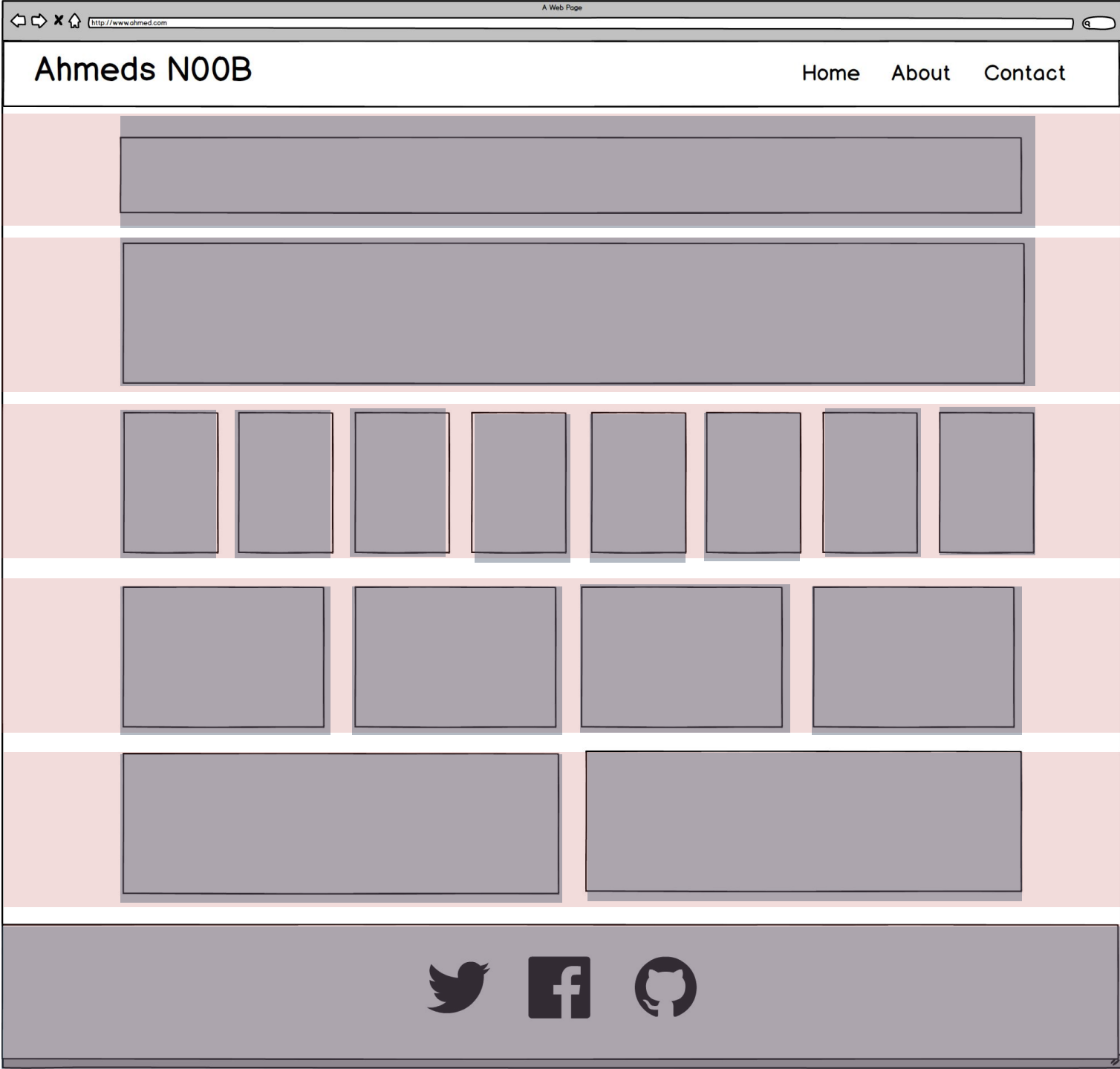
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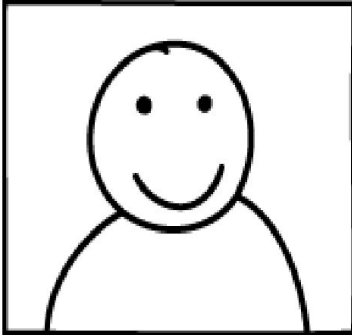


You
Try!

Level Up!

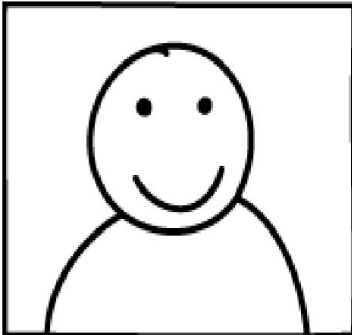
Now, let's make it more challenging...

Awesome Stories



The Greatest Website Ever Made

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The Greatest Website Ever Made

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http://www.ahmed.com

A Web Page

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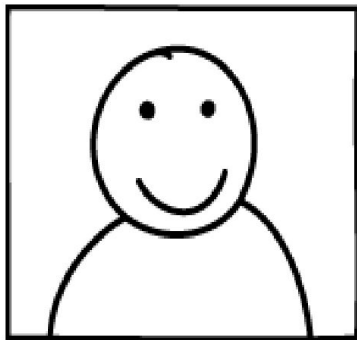
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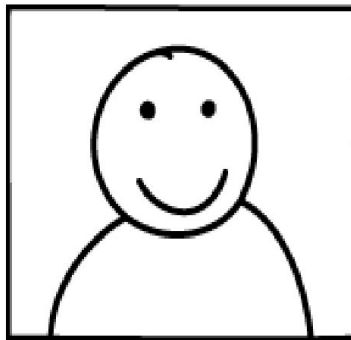
Level Up!

Now for another...

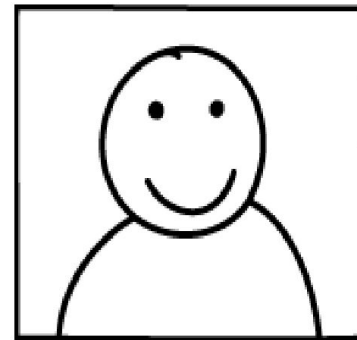
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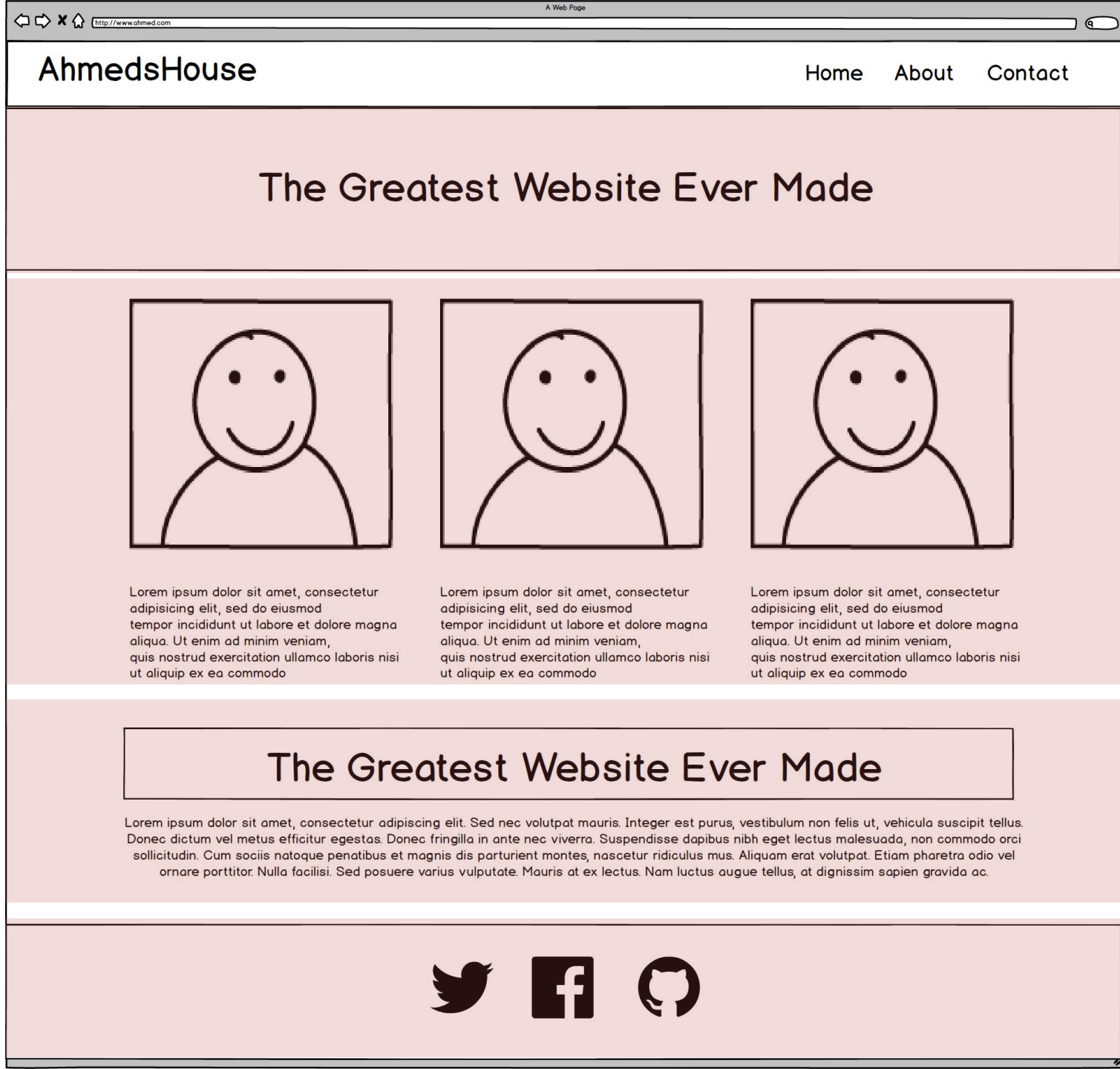


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The Greatest Website Ever Made

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ROWS

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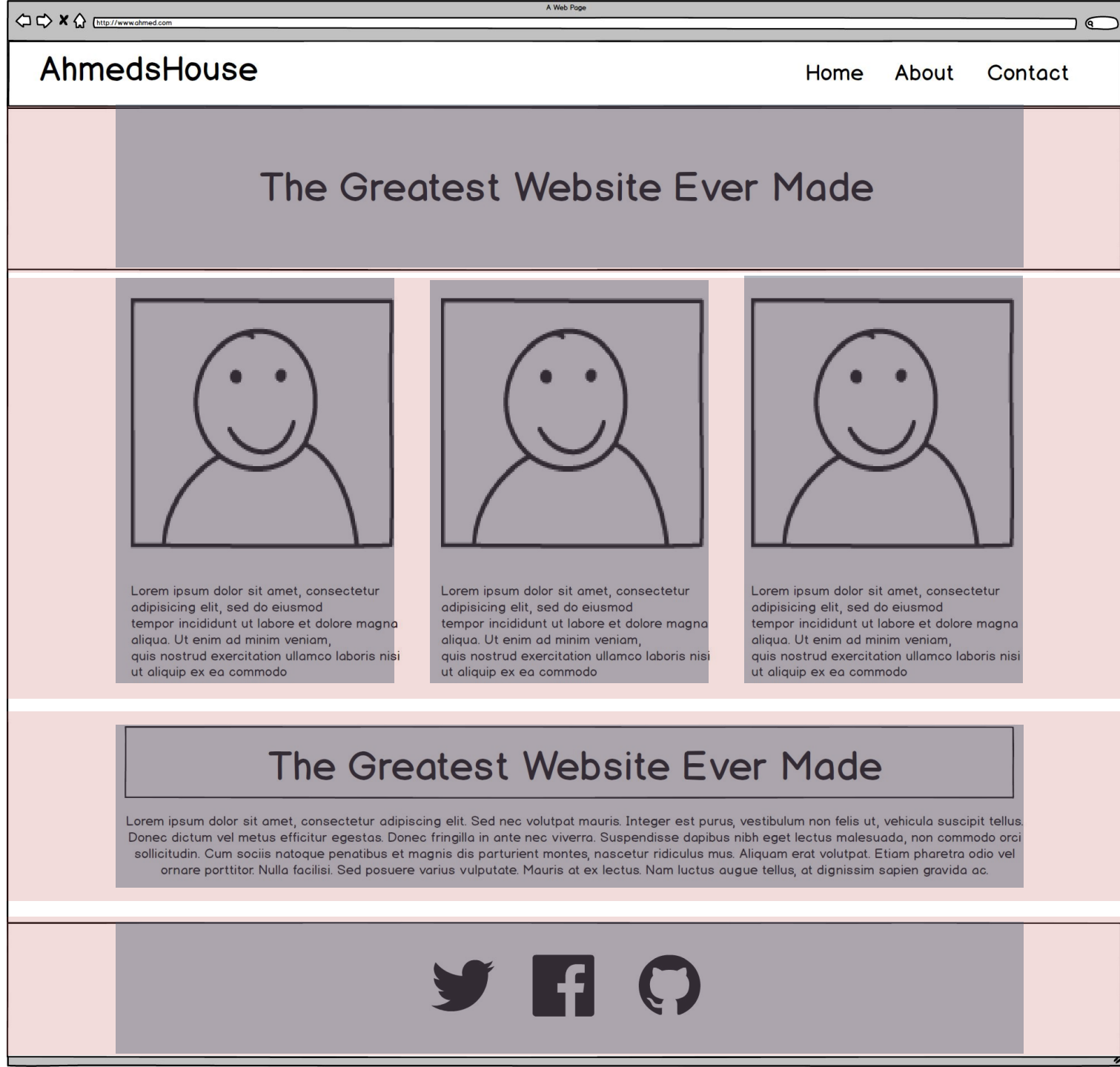
COLUMNS

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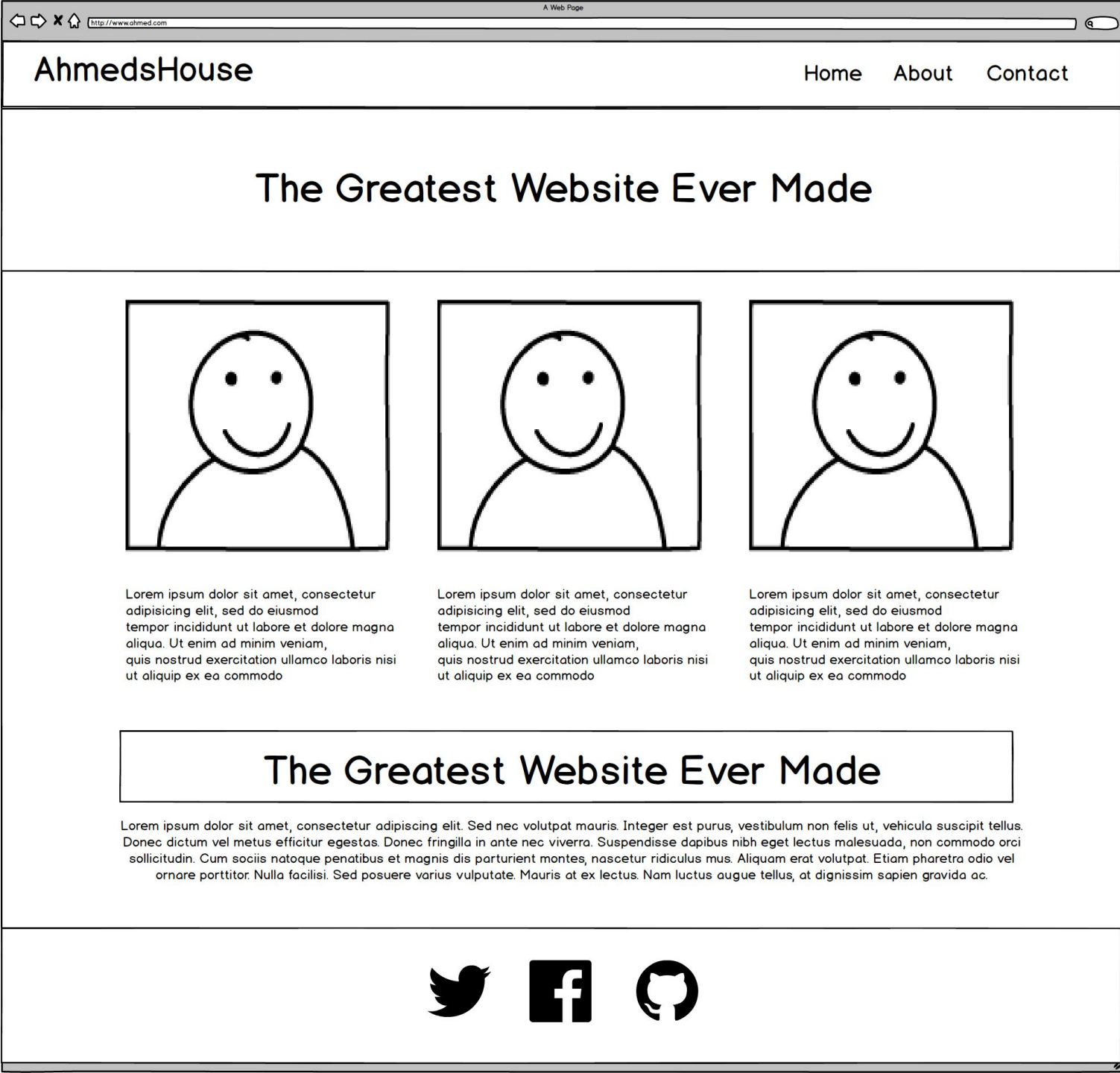
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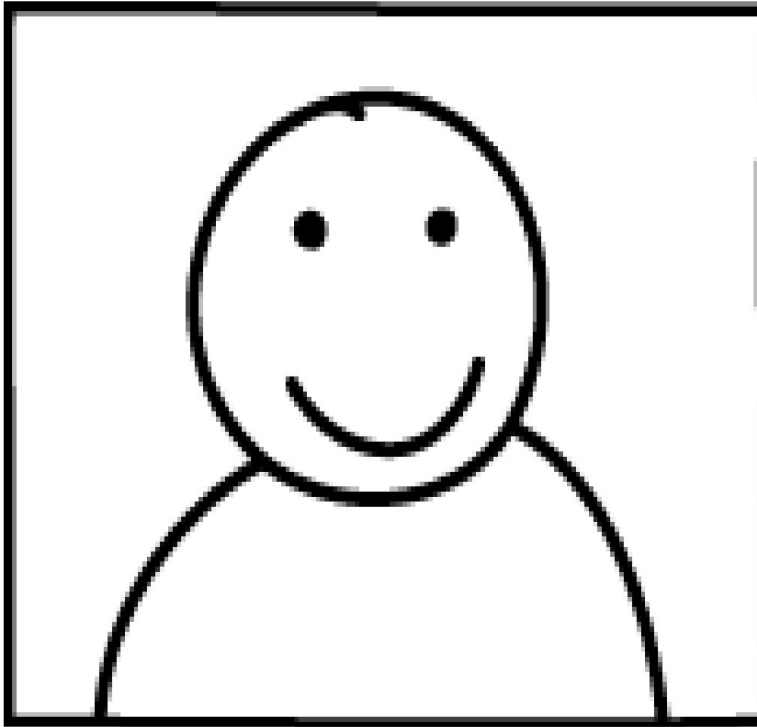
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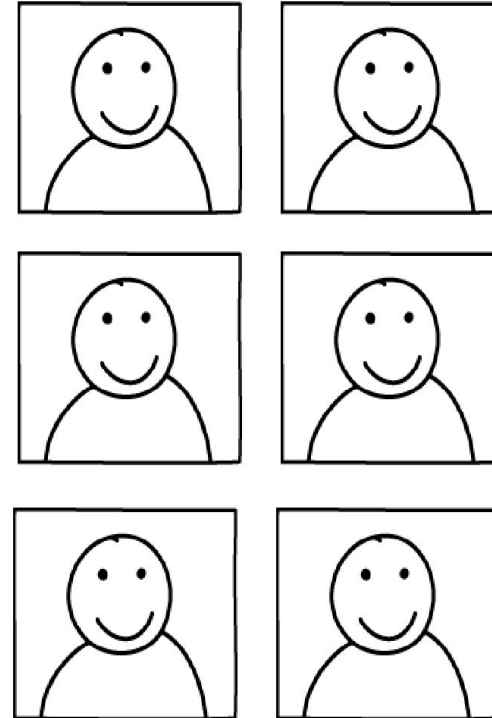


This final one is tricky...

Awesome Photos



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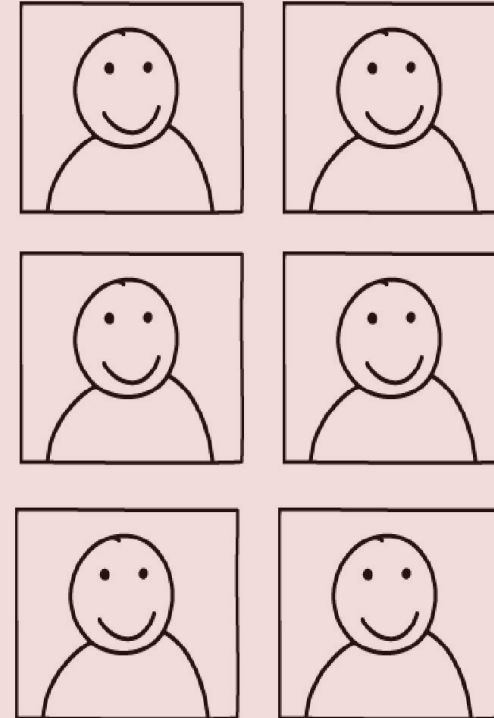


[Click Photo to View](#)

Didn't quite work right?

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

Awesome Photos



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Click Photo to View



COLUMNS

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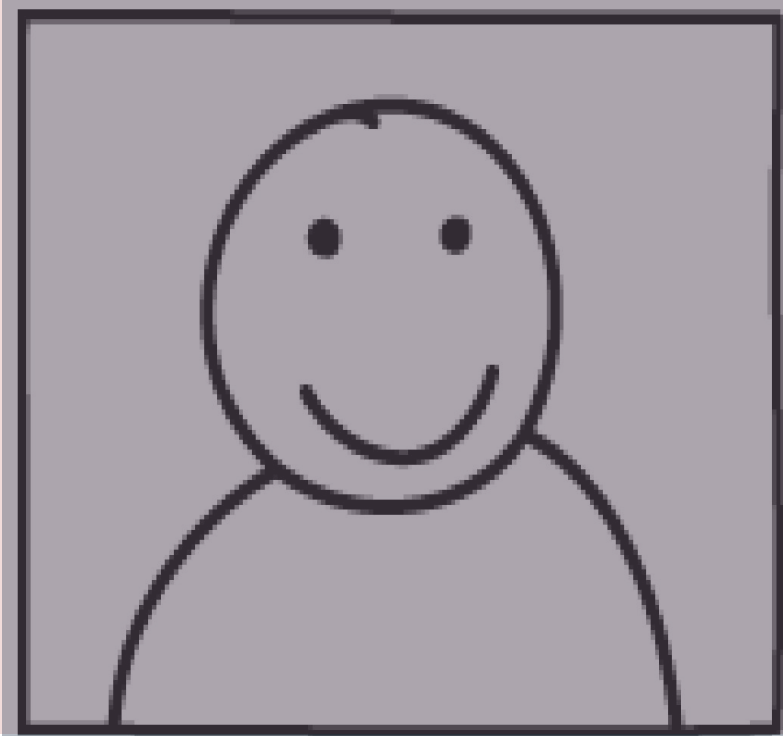
2

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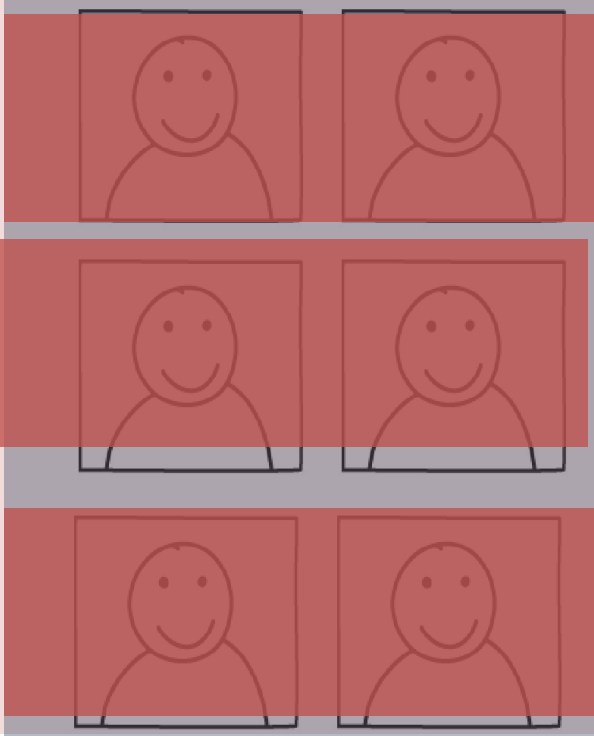


Total
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Awesome Photos



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SUB-
ROWS

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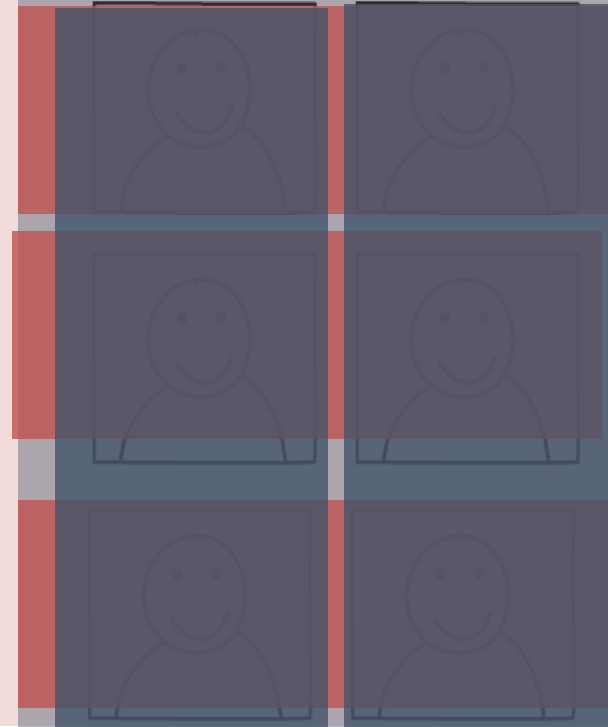
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Awesome Photos



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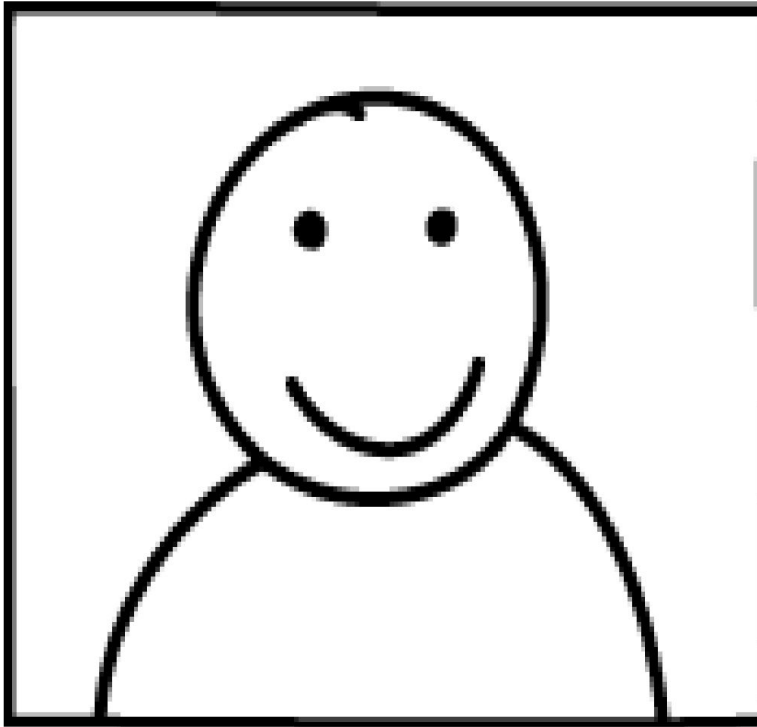


SUB-COLUMNS

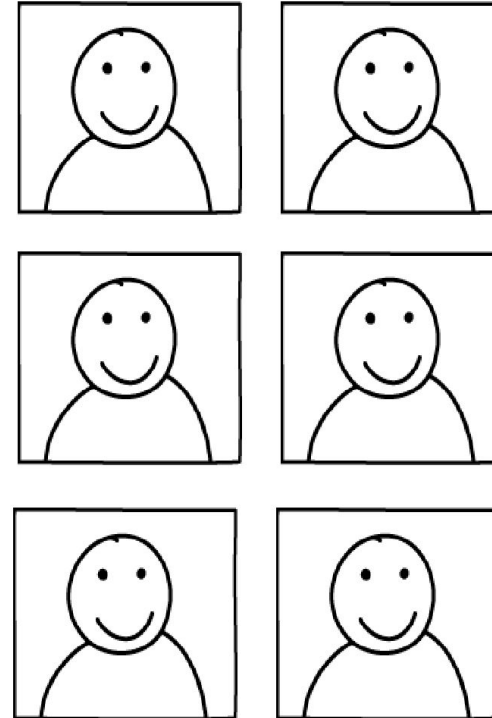
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You
Try!

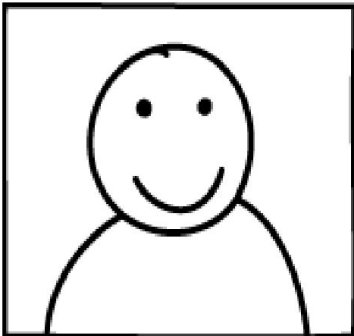
YOU

MADE

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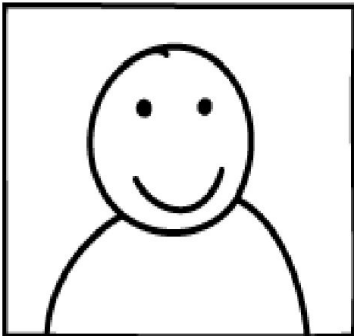
Grid Design with Bootstrap

Awesome Stories



The Greatest Website Ever Made

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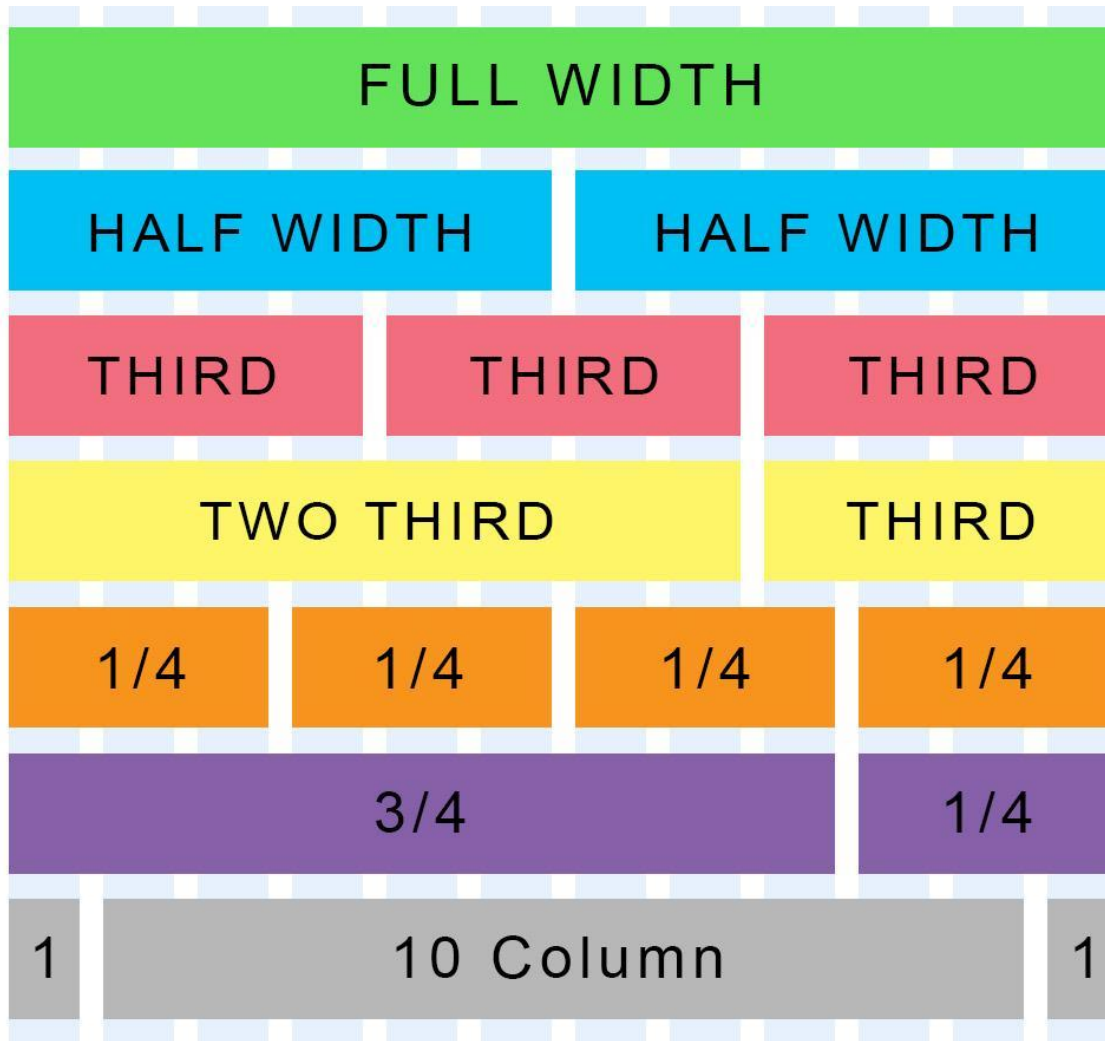


The Greatest Website Ever Made

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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.
- Ipsum Generator: <http://www.lipsum.com/>

> YOUR TURN!!

Header

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Building Bootstrap Layouts

Instructor: Demo

(InClass-DemoLayout.html | 4-InstructorLayout)

> 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.

> YOUR TURN!!

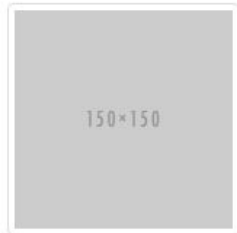
Your Name

About

Portfolio

Contact

About Me



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Sidebar

Sidebar content

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.

2. **Can I just avoid having a container?**

You could... But it will mess things up. Just throw in a container.

3. **What if I have columns that go past 12?**

Then your bootstrap grid will behave wildly. Don't go past 12.

4. **What if I don't add up to 12?**

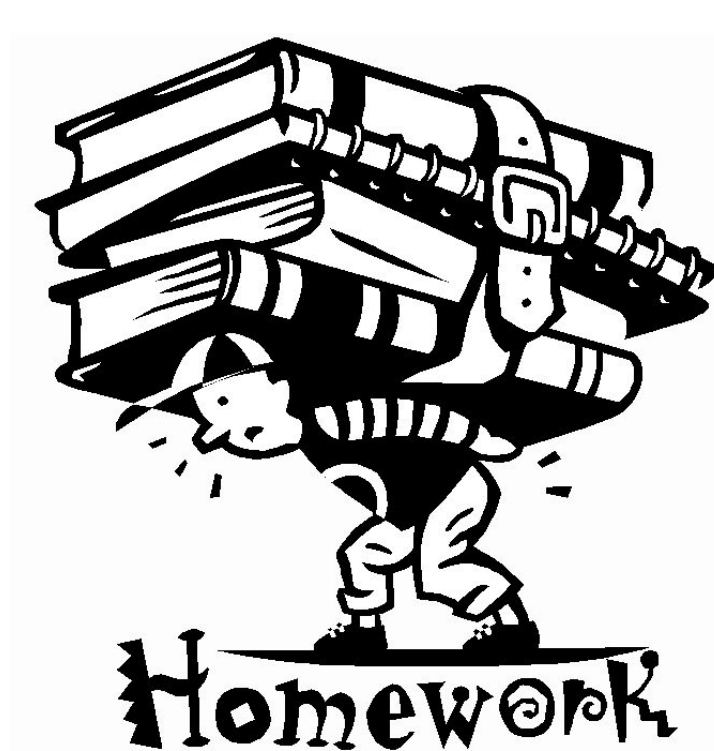
Nothing. You will have empty space at the end. But be careful, because the next column you add will fill up the empty space (sometimes without your intention).

Mobile Responsive (HW)

Still No Facebook Time

Warning!

This next section matters a lot for your homework



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.

Instructor: Demo
(6-InstructorMedia)

Quick Demo

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> 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;  
  }  
}
```

> YOUR TURN!!

Activity:

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

Just follow the steps sent to you via Slack.

Viewport

- **Viewport** is the user's visible area of a webpage.
- Viewport controls how a webpage is displayed on a mobile device. Without this, mobile devices would render the page at a typical desktop screen (scaled down).

Viewport

No Viewport



Yes Viewport



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) {
```

> 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.

Questions?

Extra Challenge

Time Permitting

> YOUR TURN!!

Activity:

With those around you (and using Twitter Bootstrap), create a complex layout of your own.

You can use the layout provided to you as a guide, starting point, inspiration, or not at all.

Awesome Stories

A square placeholder image with a light gray background and a thin white border. The text "200x200" is centered in a light gray font.

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A square placeholder image with a light gray background and a thin white border. The text "200x200" is centered in a light gray font.

The Greatest Website Ever Made

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A small square placeholder image with a light gray background and a thin white border. The text "50x50" is centered in a light gray font.A small square placeholder image with a light gray background and a thin white border. The text "50x50" is centered in a light gray font.A small square placeholder image with a light gray background and a thin white border. The text "50x50" is centered in a light gray font.