

Behold Bootstrap!

The Coding Bootcamp

Heeeeeelp Meeeeee.....



Hhhhhblub

blub

blub

take a deep breath.

IT'S ALL GOING
TO BE OKAY.

YOU ARE
FREAKING
AWESOME



Today's Class

Objectives

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

Focus!



This stuff is important...

Recap Bootstrap

The Pains of HW 1

Your Name

About | Portfolio | Contact

About Me



Marshmallow jelly soufflé pastry biscuit
gummi bears tootsie roll tootsie roll
gingerbread. Cotton candy muffin
gingerbread fruitcake. Sweet roll soufflé
topping wafer croissant oat cake

gummi bears.

Jelly-o cheesecake dessert fruitcake ice cream brownie liquorice soufflé.
Caramels biscuit gummi bears tiramisu chupa chups. Croissant
macaroon cotton candy cake pudding.

Connect with Me



Plain HTML + CSS makes layout building challenging

© Copyright 2016 Your Name

How You (Probably) Feel About CSS

CSS in a nutshell



GIFsBOOM
.net

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>
```

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 accusantium animi magnam veniam, impedit asperiores sint consequuntur debitis fugit quibusdam dolor, iusto sed porro ab minus voluptatibus amet.



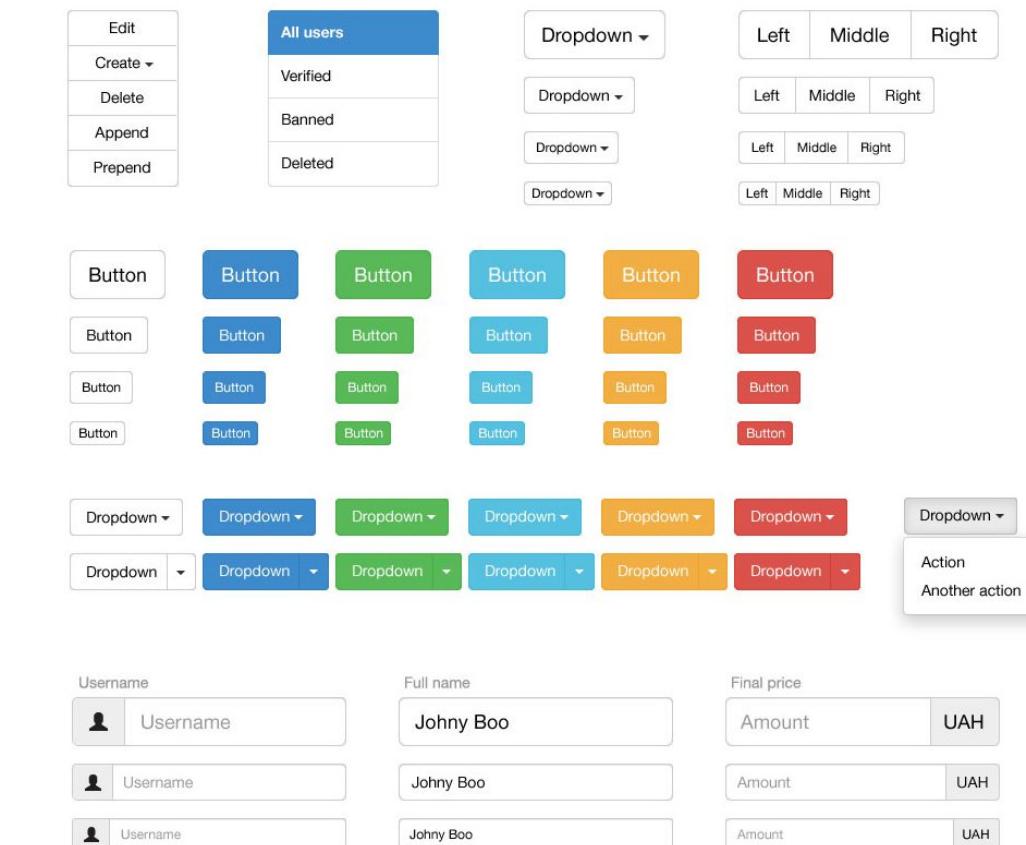
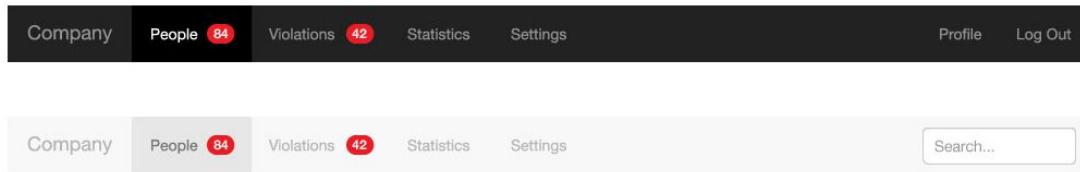
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Big Deal!!!



*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.

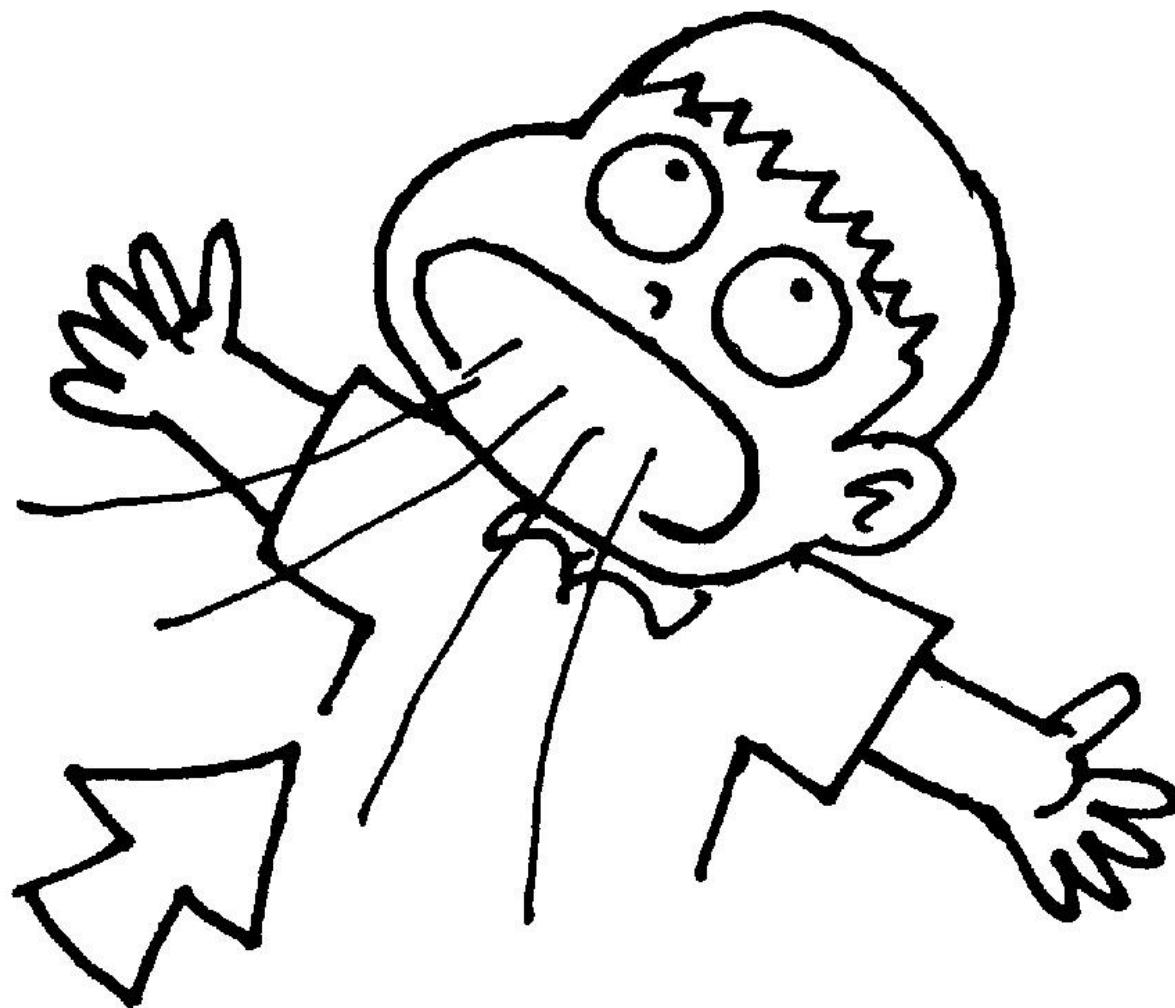
Next Phase Bootstrap

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

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

Sketching / Grid Layouts

Take a Huge Breath...



FOCUS!

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

MOST IMPORTANT ONES

in the ENTIRE program.



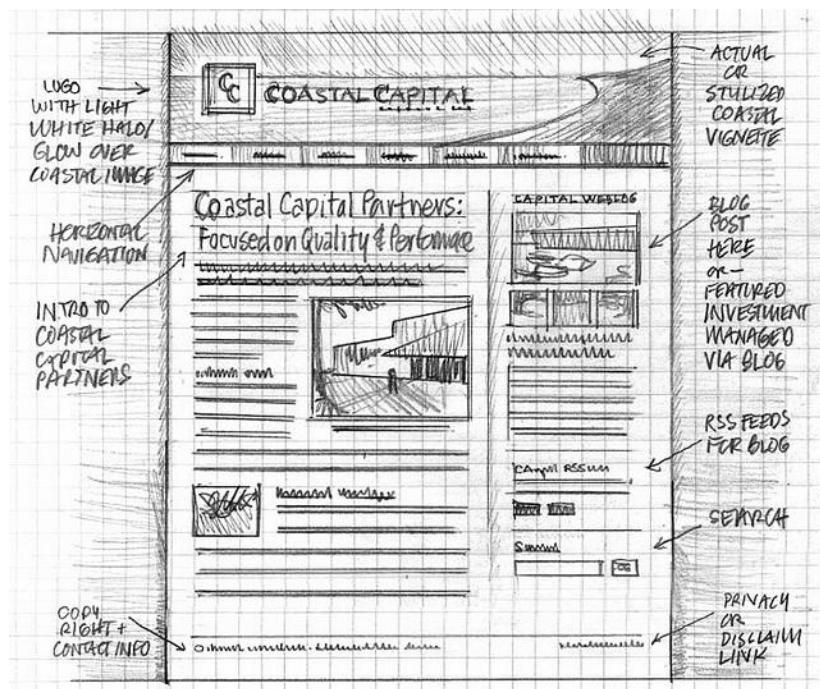
Facebook surf at your own peril (and to the peril of the galaxy)

FOCUS!

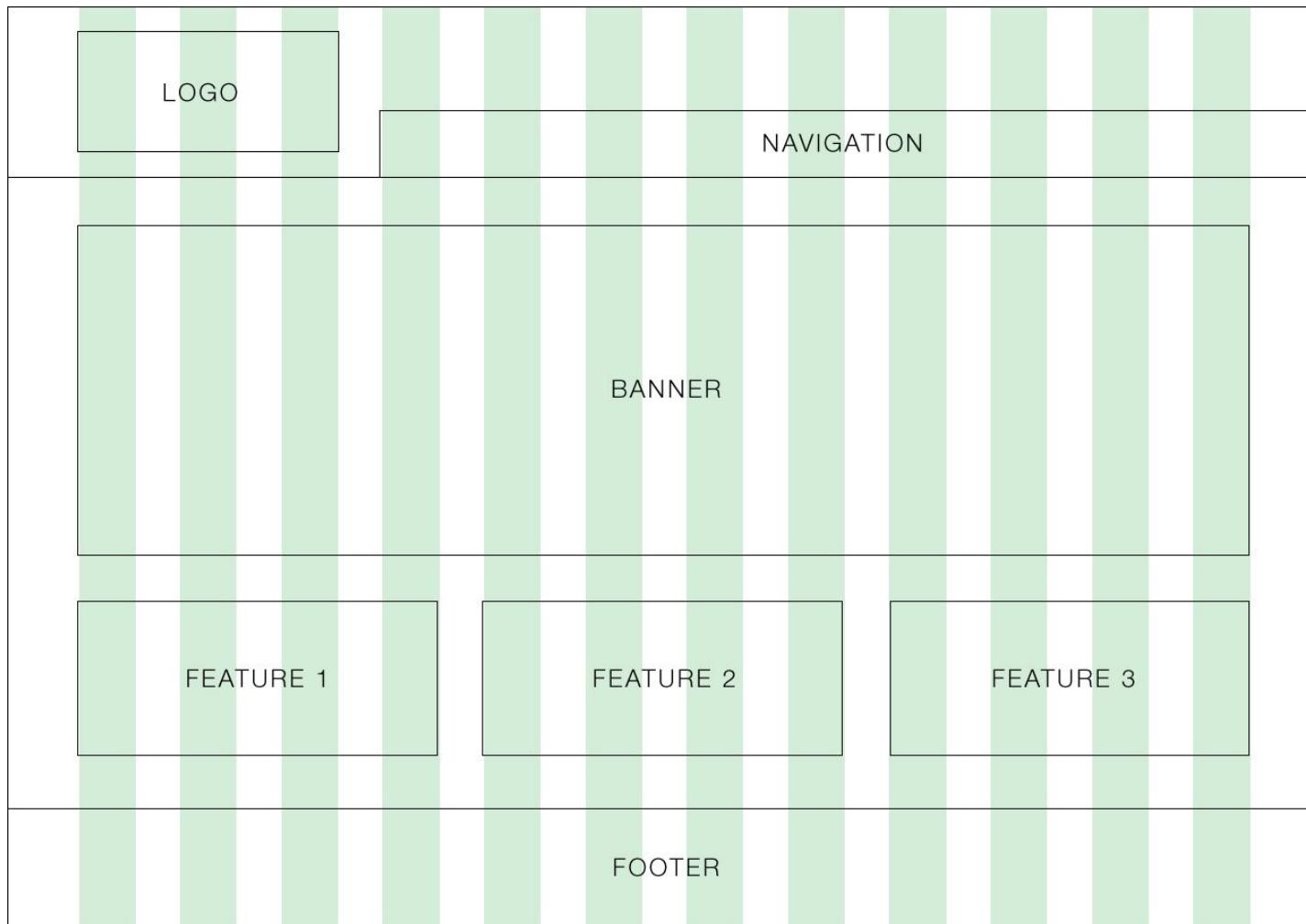
Relax. That doesn't mean it's hard.

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

A screenshot of a Facebook profile page for "Ahmed Haque". The header features a large, stylized text overlay "Listen to this wall." on a background image of a wall. Below the header is a timeline navigation bar with links for "Timeline", "About", "Friends 505", "Photos", and "More". To the right is a sidebar with a "Recent" section showing years from 2014 down to 2006. The main content area includes a status update input field, a "What's on your mind?" text box, and a news feed item from Ahmed Haque sharing a link to an article about Be My Eyes. The sidebar also lists biographical information like education and location.

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 homepage of The Guardian website, featuring a complex grid layout with multiple columns and sections.

Top Navigation: Edition: UK ▾, Sign in, Mobile, About us ▾, Today's paper ▾, Subscribe ▾.

Main Ad: A large advertisement for a Chromebook, showing a laptop with the word "chromebook" on its screen. The text "FROM £199" is prominently displayed in red, with a "Buy now" button below it.

Header: Website of the year | 24 January 2013 | Last updated less than one minute ago. Your search terms... The Guardian ▾ Search. Weather | London | 2°C | -4°C.

Logo: theguardian

News Categories: News | Sport | Comment | Culture | Business | Money | Life & style | Travel | Environment | Tech | TV | Video | Dating | Offers | Jobs. 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.

Articles:

- Cameron takes on tax avoiders in Davos speech** (Thumbnail: David Cameron at the WEF)
 - 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
- Denzel Washington interview 'I don't want movie-star friends'** (Thumbnail: Denzel Washington)
- Iran fakes blogs to smear journalists** (Thumbnail: BBC Persian staff)
- BBC Persian staff become victims of online identity theft designed to discredit them**

Right Sidebar:

- guardianjobs**
 - Guardian Schools Jobs
 - Advertise all your jobs here for a year from £350
 - [click here »](#)
- Online dating**
 - Find your soulmate with the Guardian's dating site

A More Complex Grid...

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

 BULENT 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](#)



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

SYRIAN REFUGEES »

Sheltering refugees from bitter winter 2:23 | **Tracking violence against women** 5:58 | **Sami: Why I fight the Assad regime** 2:03

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:

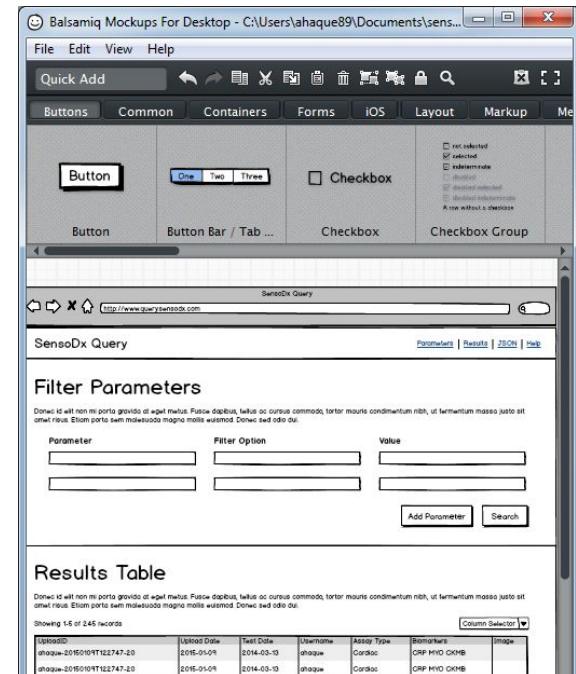
- Balsamiq***: <https://balsamiq.com/>
- Framebox: <http://framebox.org/>
- Pen and Paper: Your notebook

Grids for Photoshop / Illustrator:

- 960 GS: <http://960.gs/>
- GuideGuide: <https://guideguide.me/>

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

A wireframe representation of a web page. At the top, a header bar shows a back button, forward button, refresh button, and a close button. The URL bar contains 'http://www.ohmed.com'. The title 'A Web Page' is centered above the main content area. The main content area has a header 'AhmedsHouse' and a navigation menu with links 'Home', 'About', and 'Contact'. Below this is a large section with the heading 'The Greatest Website Ever Made'. Underneath this heading are three identical placeholder images of a smiling person's head and shoulders, enclosed in separate boxes. Below each image is a block of placeholder text (Lorem ipsum). A central call-to-action button also features the heading 'The Greatest Website Ever Made'. At the bottom of the page is a footer section containing social media icons for Twitter, Facebook, and GitHub.

A Web Page

http://www.ohmed.com

AhmedsHouse

Home About Contact

The Greatest Website Ever Made

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The Greatest Website Ever Made

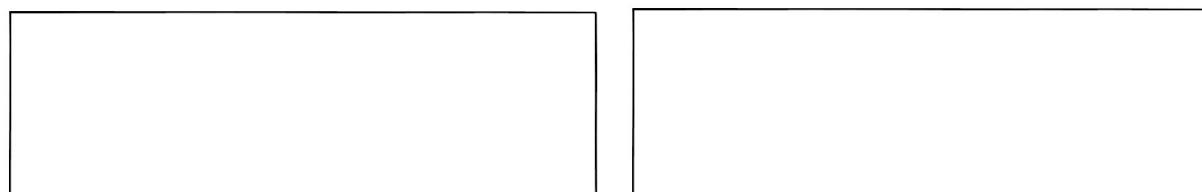
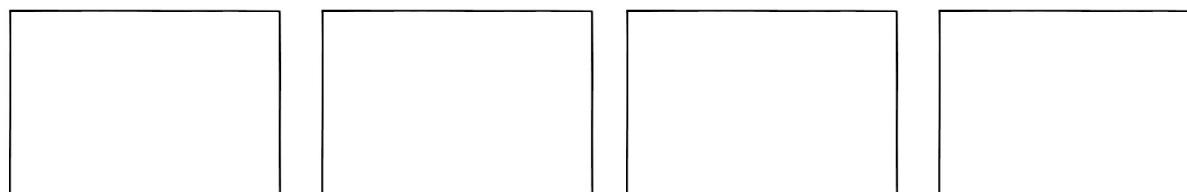
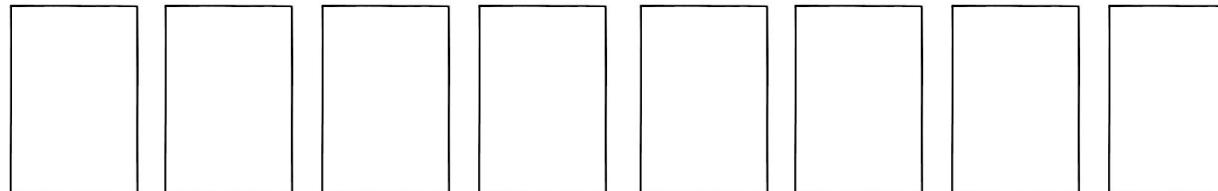
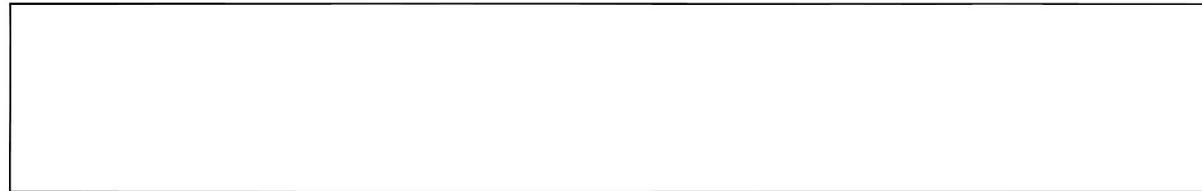
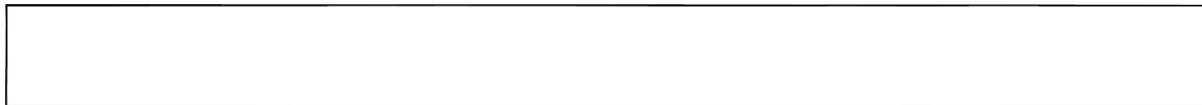
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Ahmeds N00B

[Home](#) [About](#) [Contact](#)



ROWS

Ahmeds N00B

Home About Contact

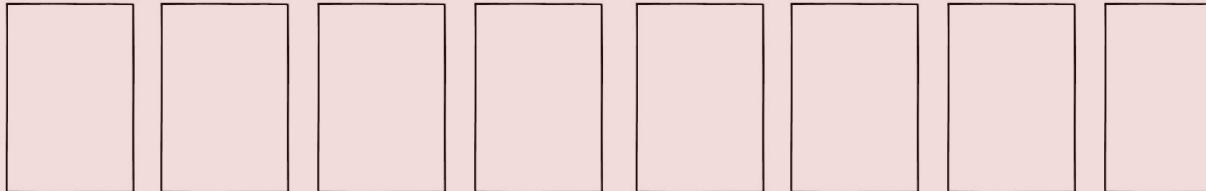
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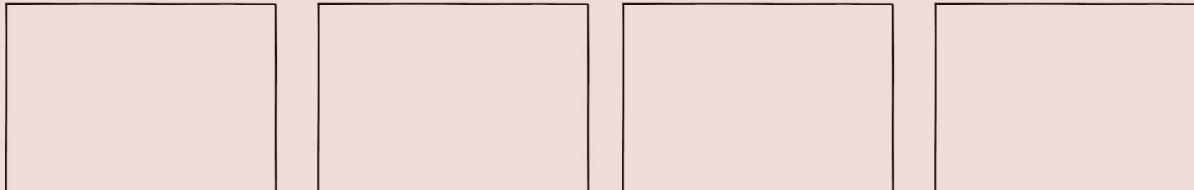
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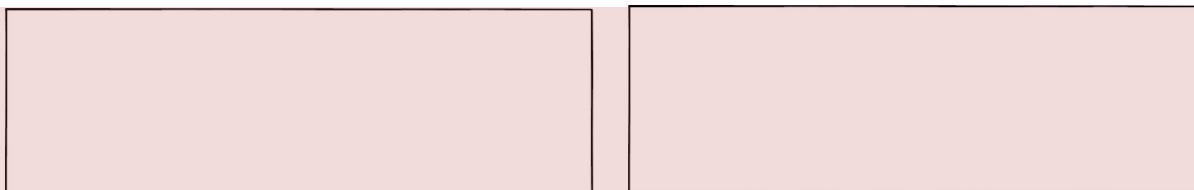
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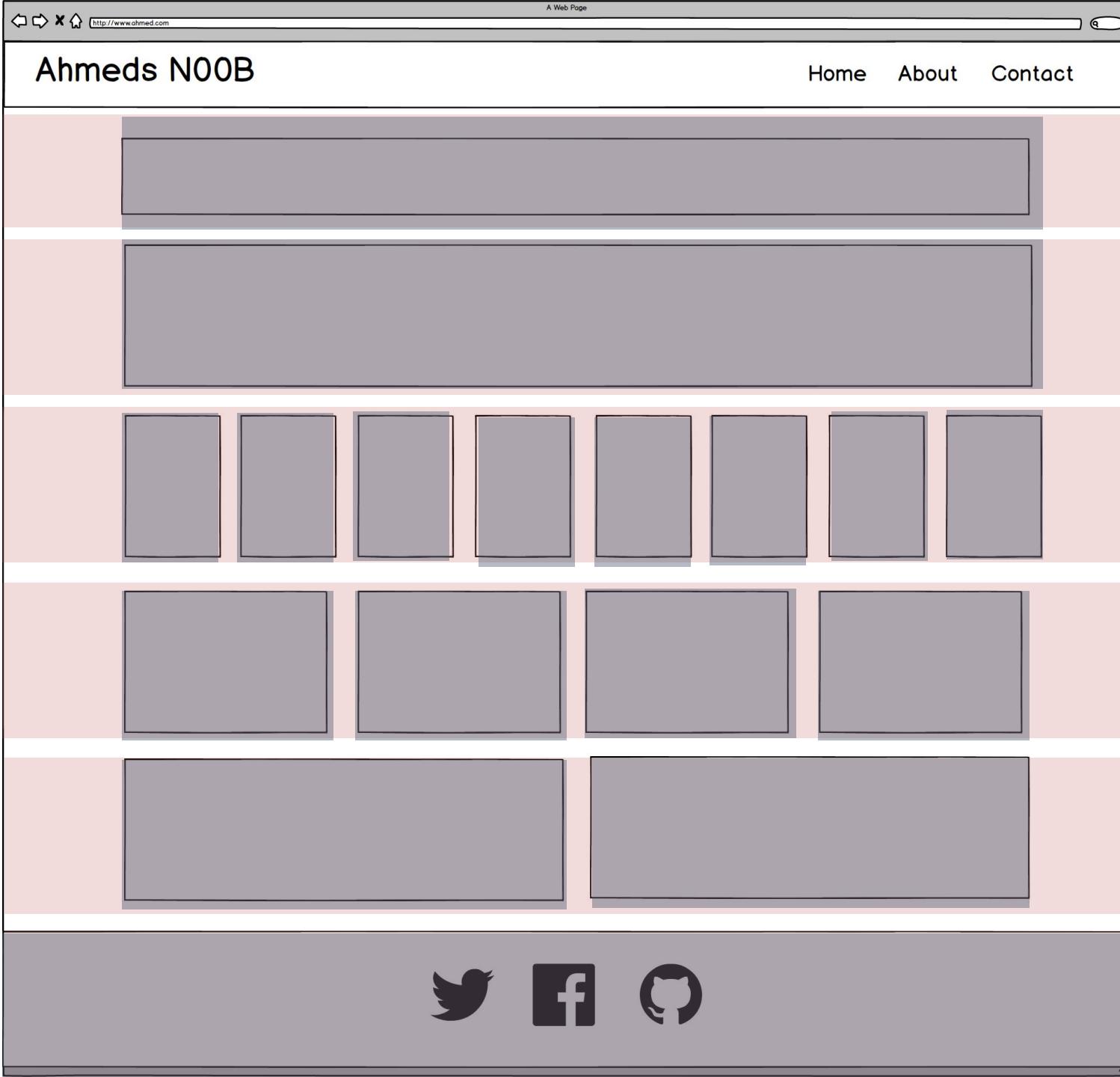
1



6

Total

COLUMNS



Ahmeds N00B

[Home](#) [About](#) [Contact](#)

You
Try!



Level Up!

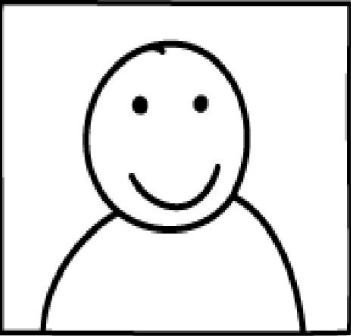
Now, let's make it more challenging...

A Web Page
http://www.ahmed.com

Ahmeds News

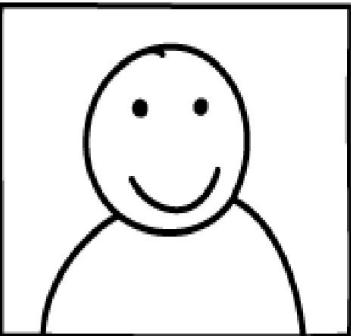
Home About Contact

Awesome Stories



The Greatest Website Ever Made

LOREM IPSUM DOLOR SIT AMET, CONSECTETUR ADIPISCING ELIT. SED NEC VOLUTPAT MAURIS. INTEGER EST PURUS, VESTIBULUM NON FELIS UT, VEHICULA SUSCIPIT TELLUS. DONEC DICTUM VEL METUS EFFICITUR EGESTAS. DONEC FRINGILLA IN ANTE NEC VIVERRA. SUSPENDISSE DAPIBUS NIHBI EGRET LECTUS MALESUADA, NON COMMODO ORCI SOLICITUDIN. CUM SOCIIS NATOQUE PENATIBUS ET MAGNIS DIS PARTIUNT MONTES, NASCETUR RIDICULUS MUS. ALIQUAM ERAT VOLUTPAT. ETIAM PHARETRA ODO VEL ORNARE PORTTITOR. NULLA FACILISI. SED POSUERE VARIUS VULPUTATE. MAURIS AT EX LECTUS. NAM LUCTUS AUGUE TELLUS, AT DIGNISSIM SAPIEN GRAVIDA AC.



The Greatest Website Ever Made

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ROWS

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	<h2>Awesome Stories</h2>			
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Awesome Stories

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The Greatest Website Ever Made

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The Greatest Website Ever Made

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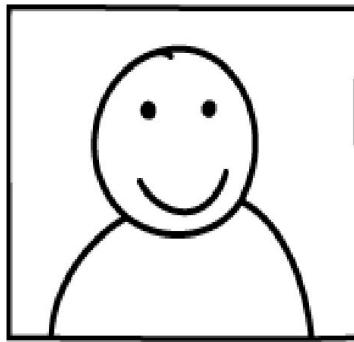


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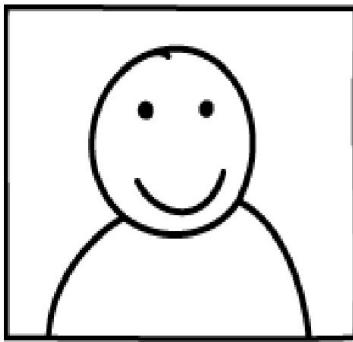
Level Up!

Now for another...

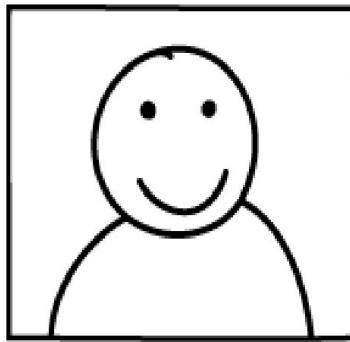
The Greatest Website Ever Made



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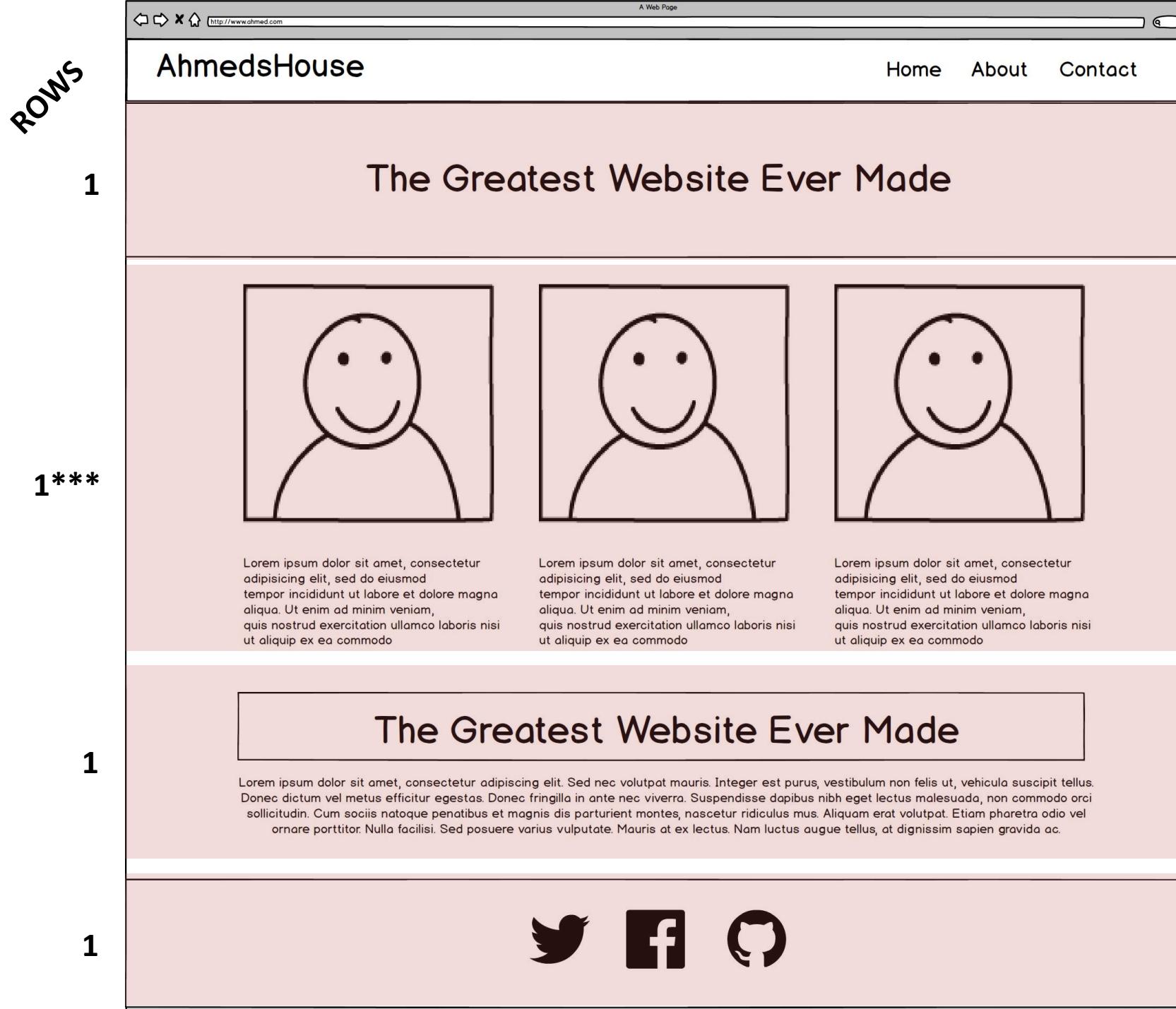
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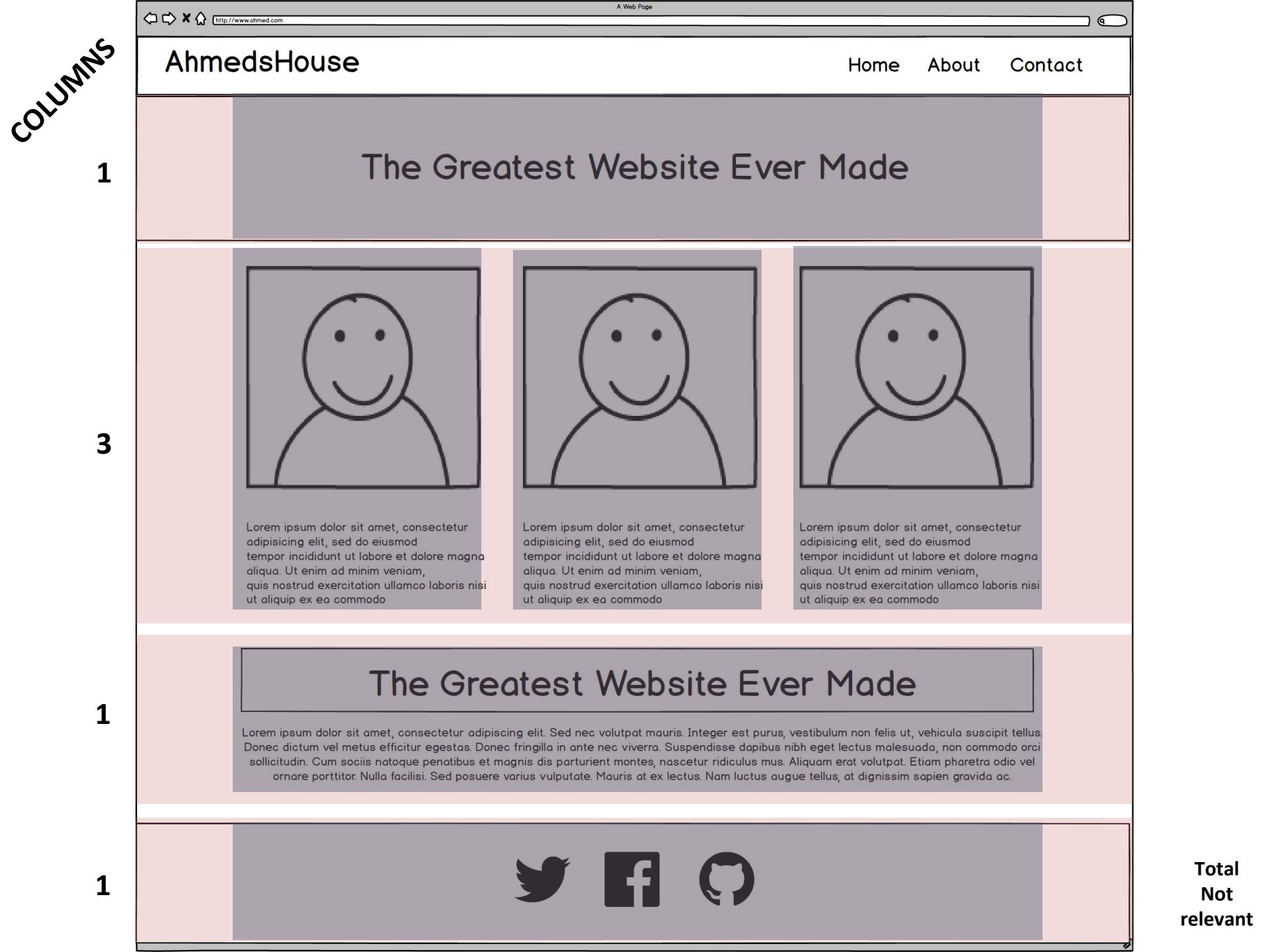
The Greatest Website Ever Made

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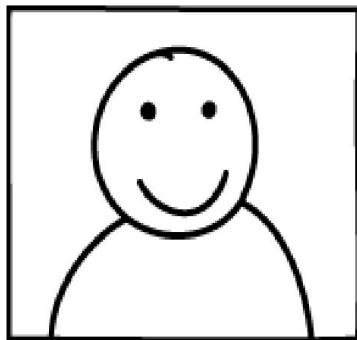
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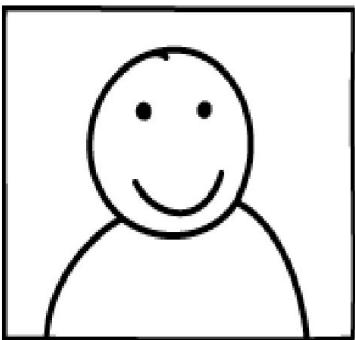


You
Try!

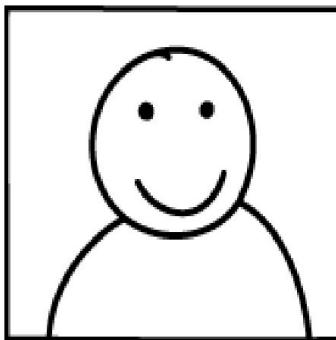
The Greatest Website Ever Made



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The Greatest Website Ever Made

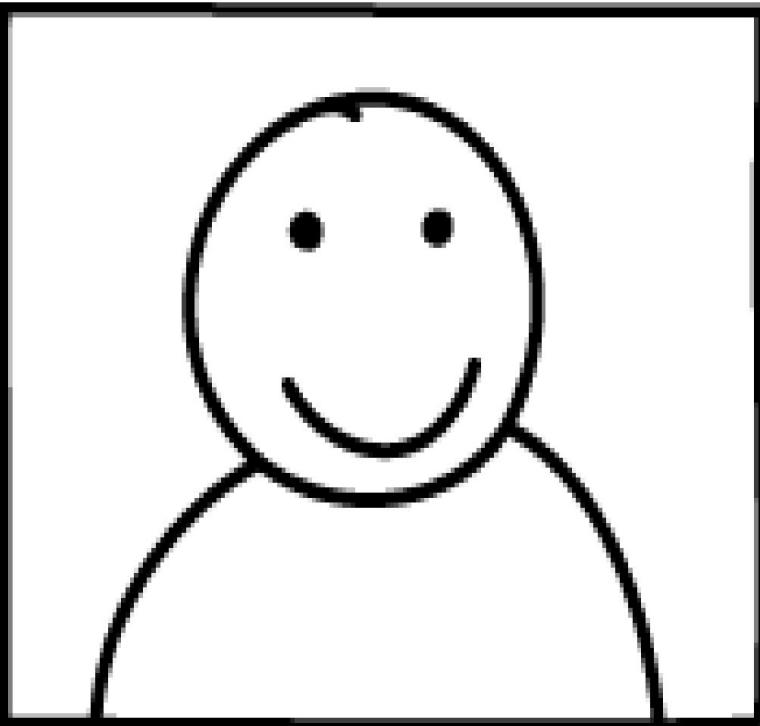
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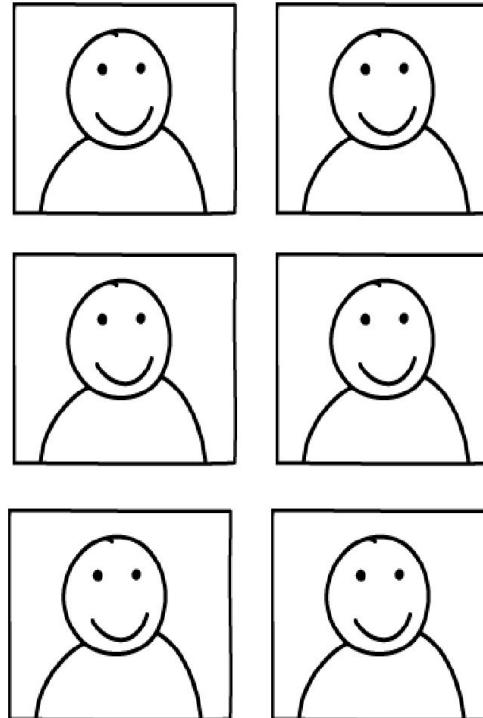
Level Up!

This final one is tricky...

Awesome Photos



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Click Photo to View

Level Up!

Didn't quite work right?

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

1

Awesome Photos



1 ***

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[Click Photo to View](#)

1



4

Total

1

Awesome Photos



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[Click Photo to View](#)

1



Total
Not
relevant

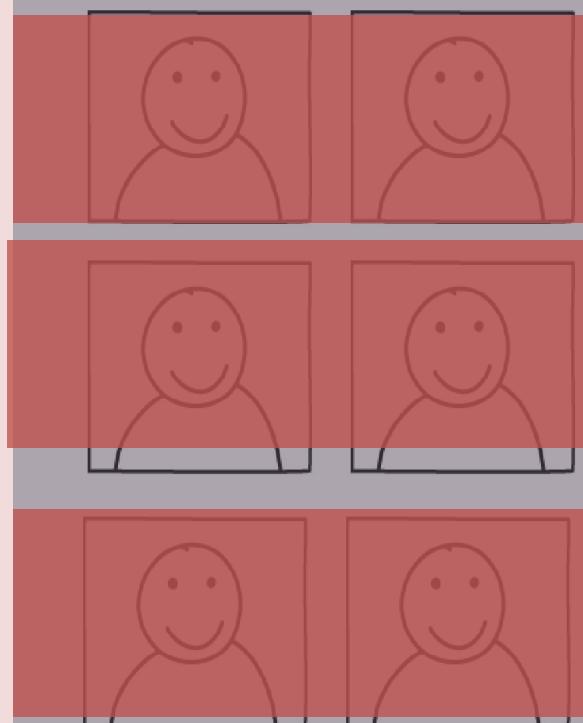
Ahmeds Photos

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Awesome Photos



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Click Photo to View

SUB-
ROWS

1

1

1

1

4

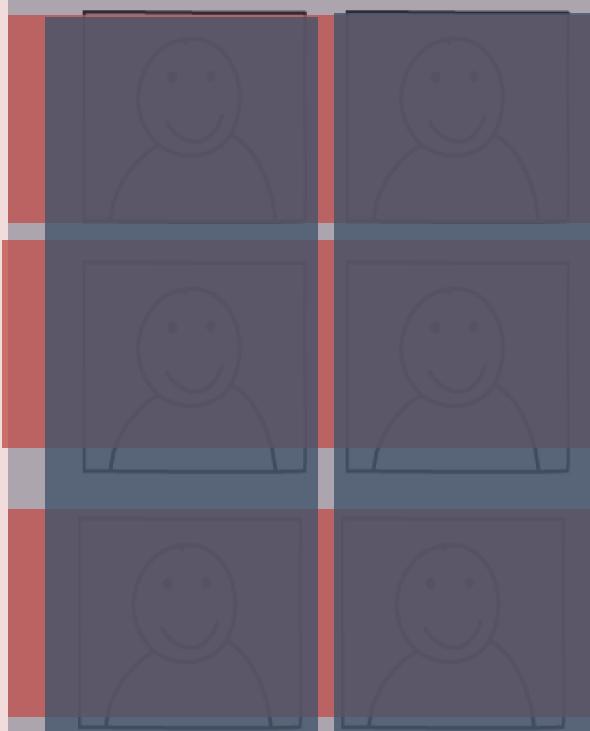
Total



Awesome Photos



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Click Photo to View

2

1

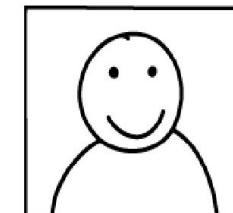
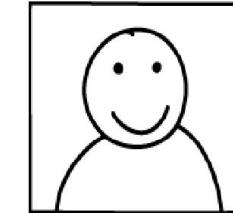
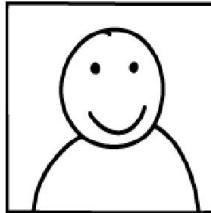
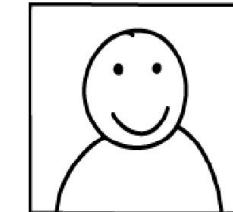
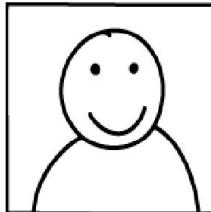
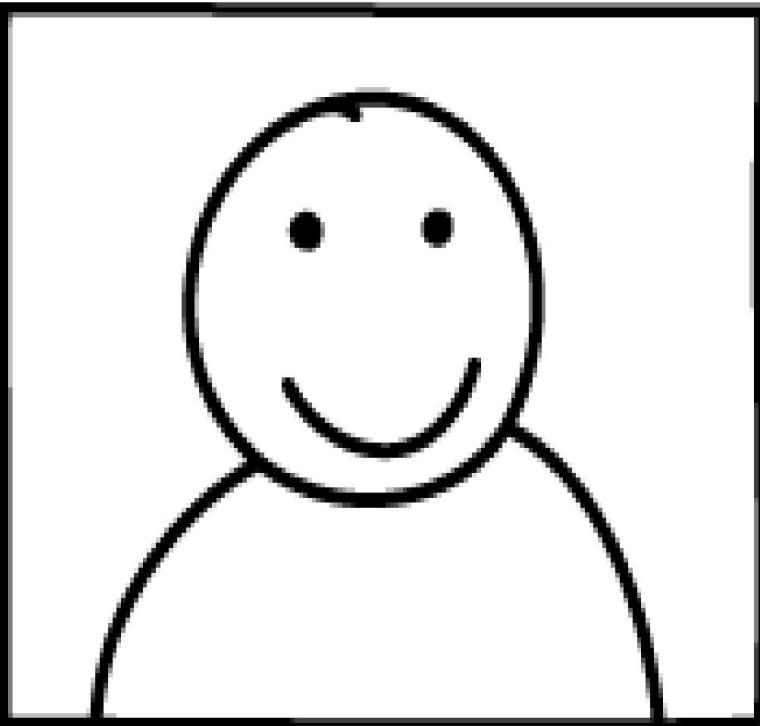
SUB-COLUMNS

You
Try!

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[Click Photo to View](#)



**YOU
MADE
IT**

Grid Design with Bootstrap

More Genius Time!

Warning!

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



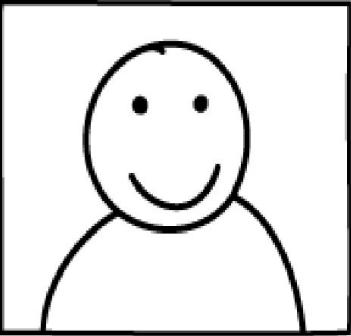
Time to channel that inner genius.

A Web Page
http://www.ahmed.com

Ahmeds News

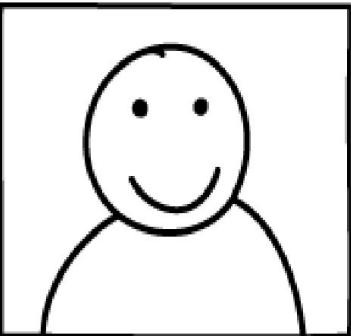
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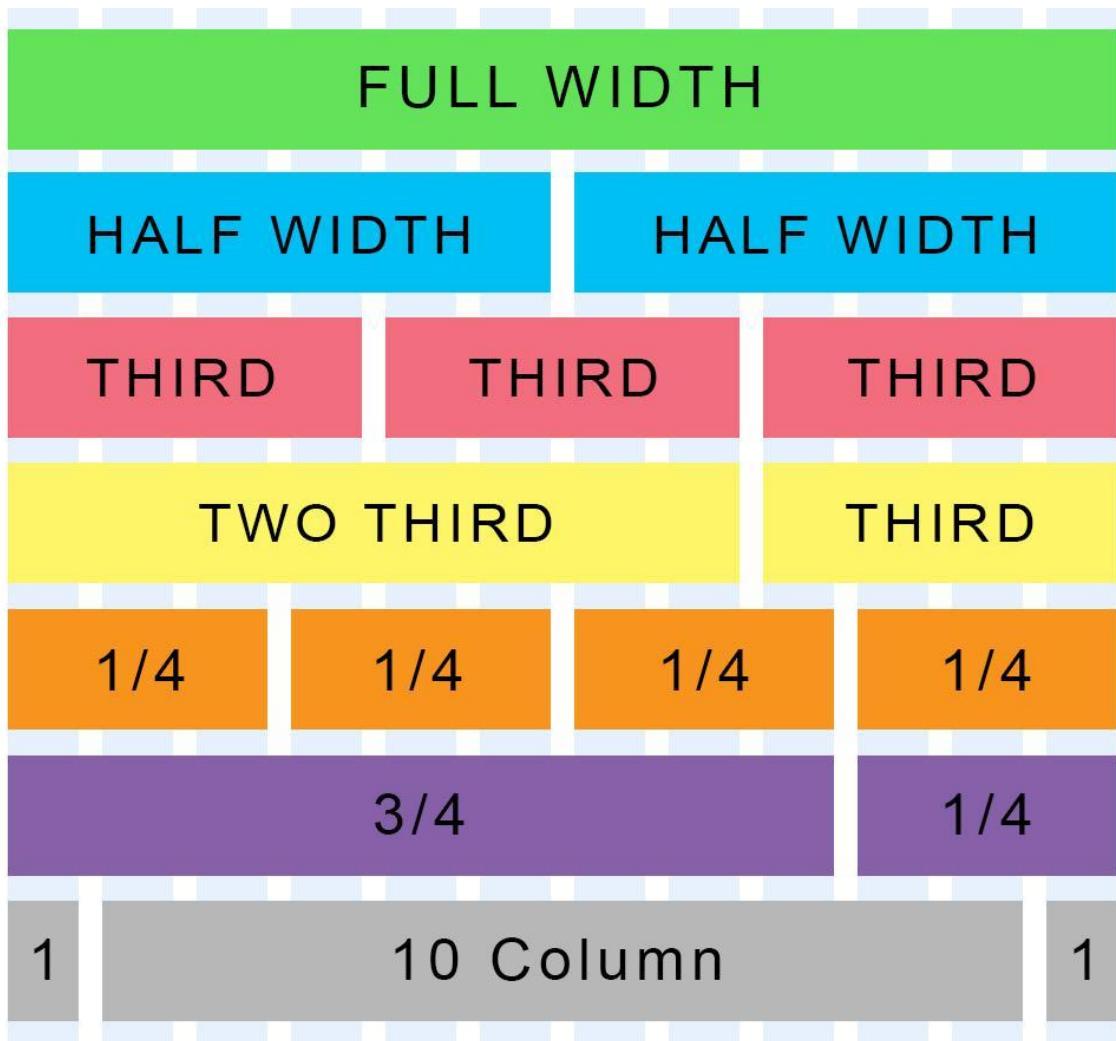


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Bootstrap Grid



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 Grid 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!

Instructor: Demo
(quickgrid.html | 13-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

```
        <!-- I'm in Column 1 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 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!

Instructor: Demo
(InClass-DemoLayout.html | 15-InstructorLayout)

> YOUR TURN!!

Activity:

Working in pairs and using Bootstrap make the following design.

Be sure to note the:

- **Grid Layout**
- **Navbar**
- Sidebar **card**
- **Thumbnail**

Additional details will be sent to you via slack.

> YOUR TURN!!

Navbar About Portfolio Contact

About Me



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Card title

Card subtitle

Some quick example text to build on the card title and make up the bulk of the card's content.

Common Questions

1. Can I reverse the order (i.e. rows inside columns)?

Not usually. Columns should 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 won't behave as expected. 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 in this row will fill up the empty space (sometimes without your intention).

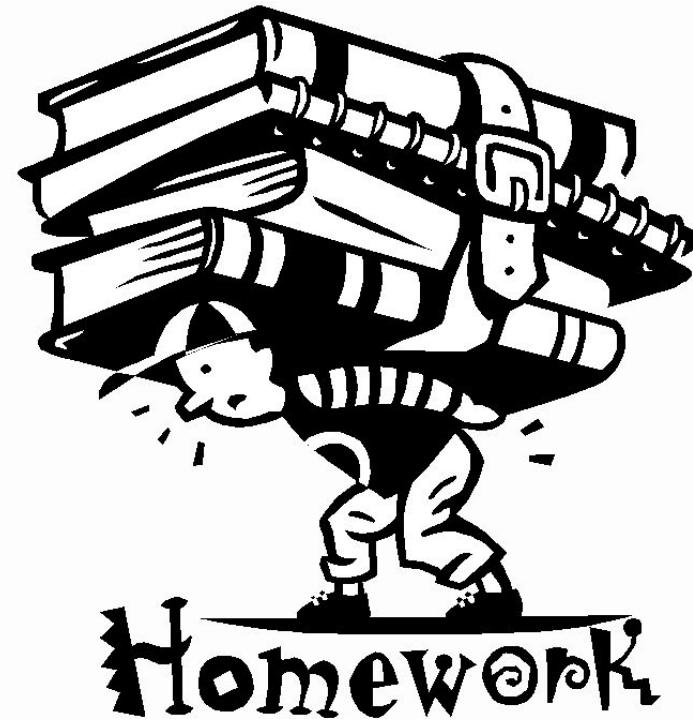
take a deep breath.

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 device viewport.
- Through media queries we can change the way a web page is displayed based on width, height, orientation, and even media type (screen, paper, braille, etc).
- Bootstrap extensively uses media queries under the hood to help you create mobile responsive websites.
- But remember! Media queries must be declared last.

INSTRUCTOR DEMO!

Instructor: Demo
(17-InstructorMedia)

Quick Demo

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Nunc in laoreet nunc. Quisque accumsan tincidunt neque, at
dictum turpis. In hac habitasse platea dictumst.

> 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.

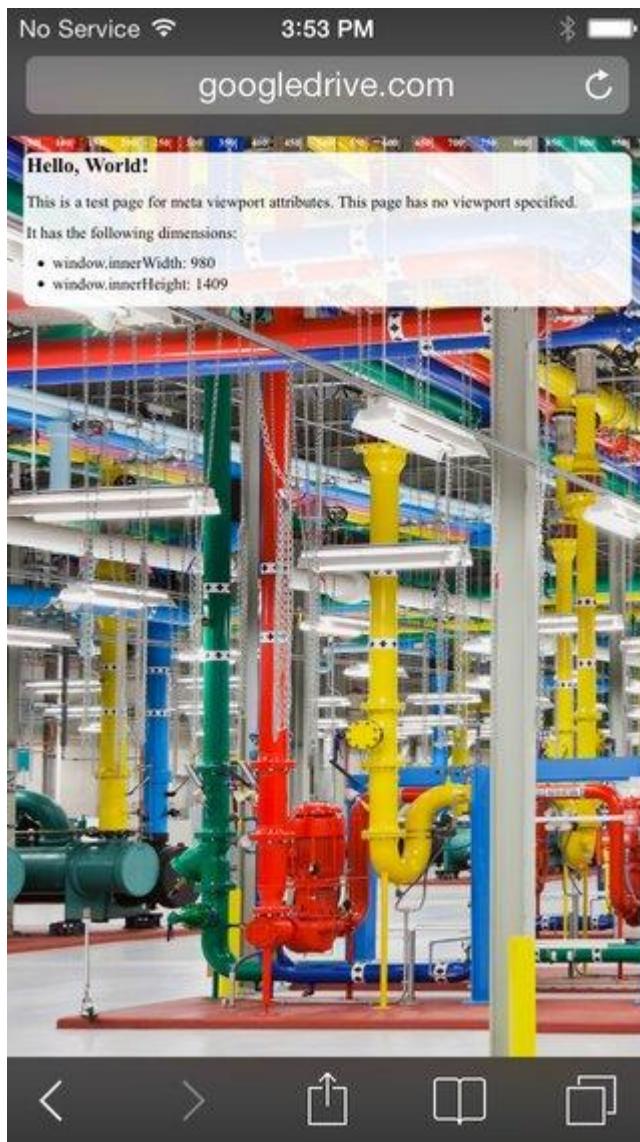
Just follow the steps sent to you via Slack.

Viewport

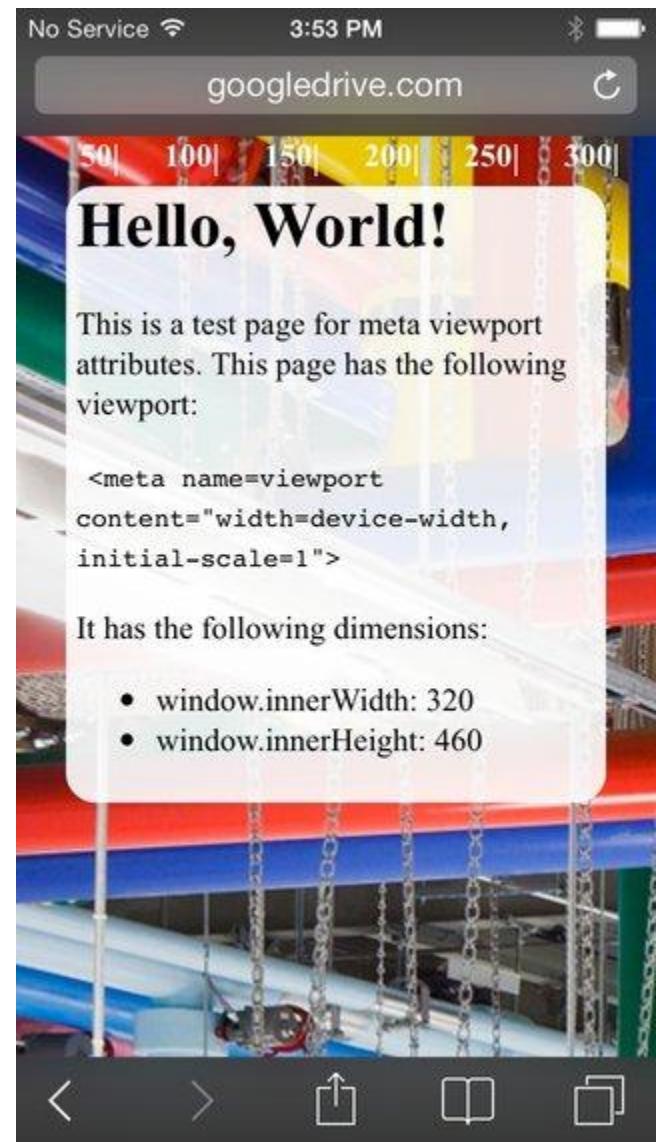
- **Viewport** refers to the display being used to view the website.
- By default, mobile devices with small screen, high resolution viewports may render content at a typical desktop screen ratio (scaled down at the smaller screen size).
- We can specify that a web page should scale its content to the width of its current viewport using a `meta` tag.

Viewport

No Viewport Content Scaling



Yes Viewport Content Scaling



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

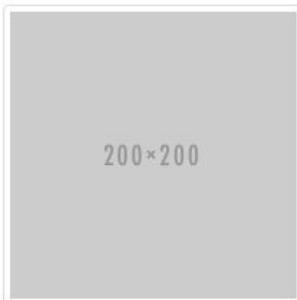
> YOUR TURN!!

Activity:

With those around you (and using Bootstrap CSS), 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



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