

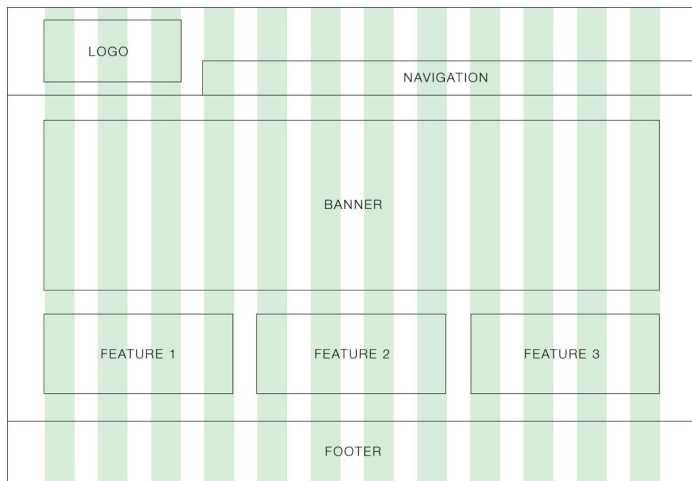


By the end of this class, you will be able to:

- ☐ Identify rows and columns in grid layouts
- ☐ Utilize Bootstrap's grid system to create complete web layouts
- ☐ Create mobile responsive websites using media queries

GRID LAYOUTS





DESIGNING WITH A GRID

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**.

Another Example...

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

TV: CNN | CNN en Español

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January 11, 2013 — Updated 2001 GMT (1401 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

SYRIAN REFUGEES »

Sheltering refugees from bitter winter
2:23

Tracking violence against women
6:58

Samir: Why I fight the Assad regime
2:03

CNN TV

Like <1.5m | Follow @cnni

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

Cloudy
Hi 5° | Lo 2°
Feels like -1°
10-day



ROWS

1

Ahmeds News

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

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





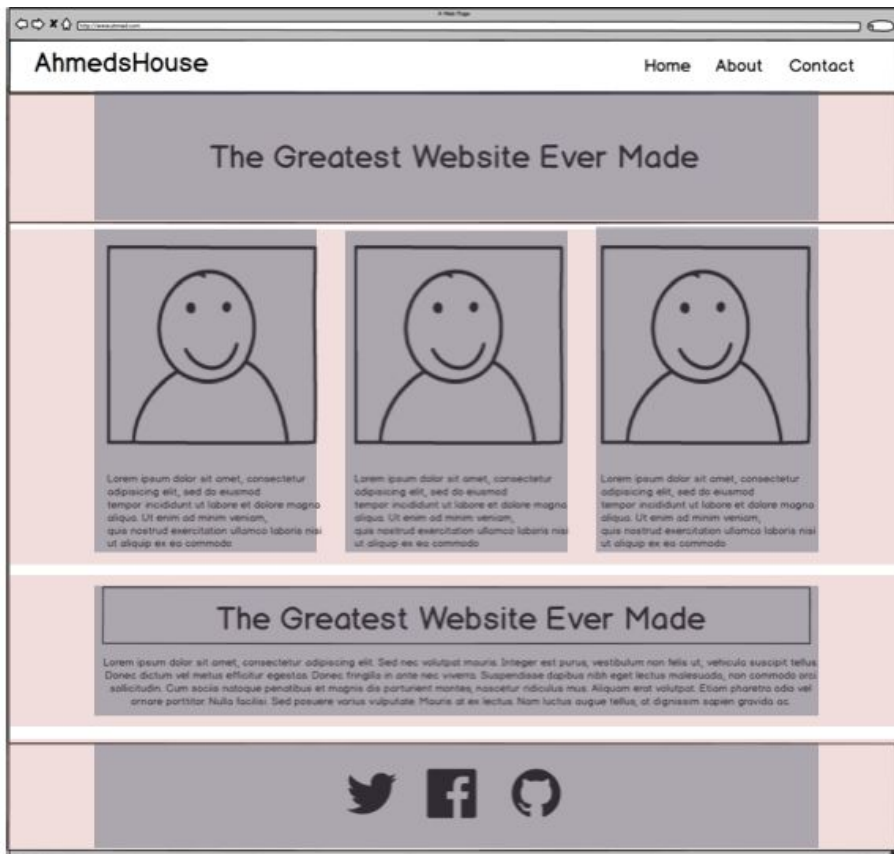
COLUMNS

1

3

1

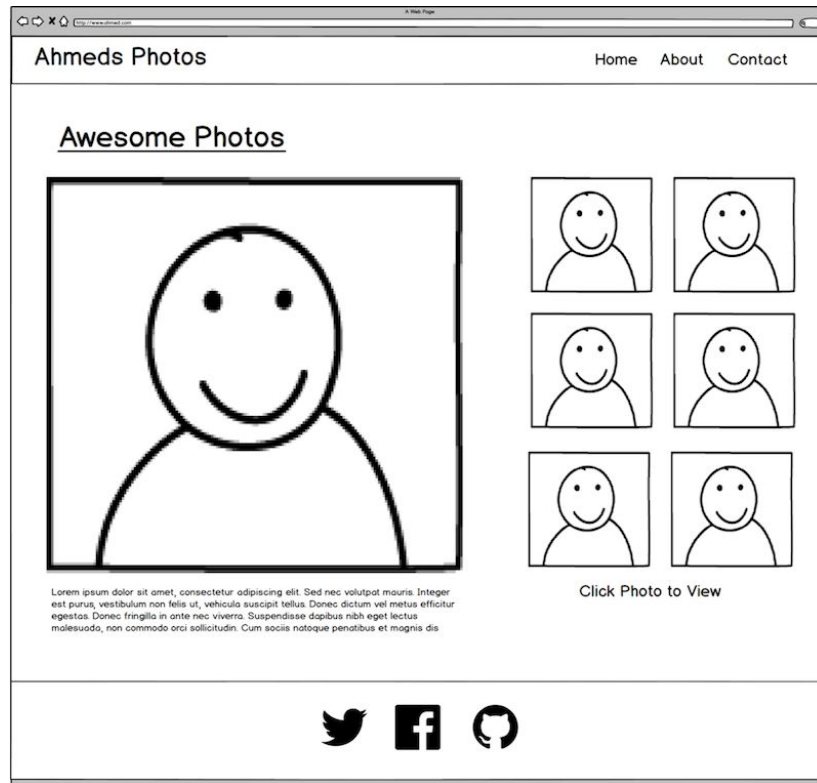
1

Total
Not
relevant



PARTNER DO

Calculate the Grid



CALCULATE THE GRID

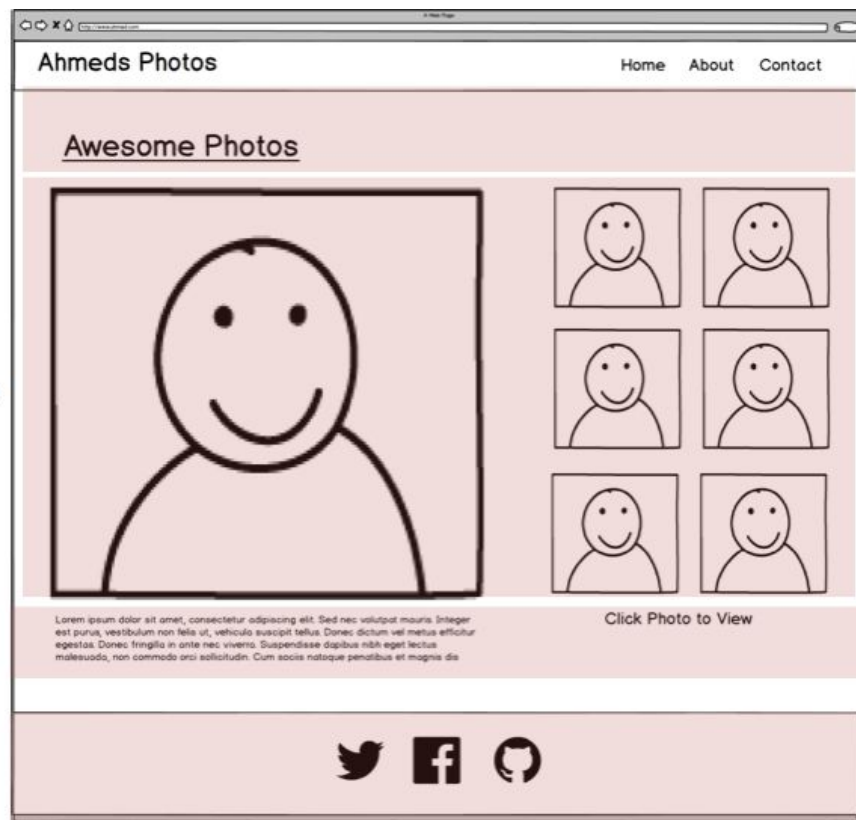
ROWS

1

1***

1***

1



4

Total

COLUMNS

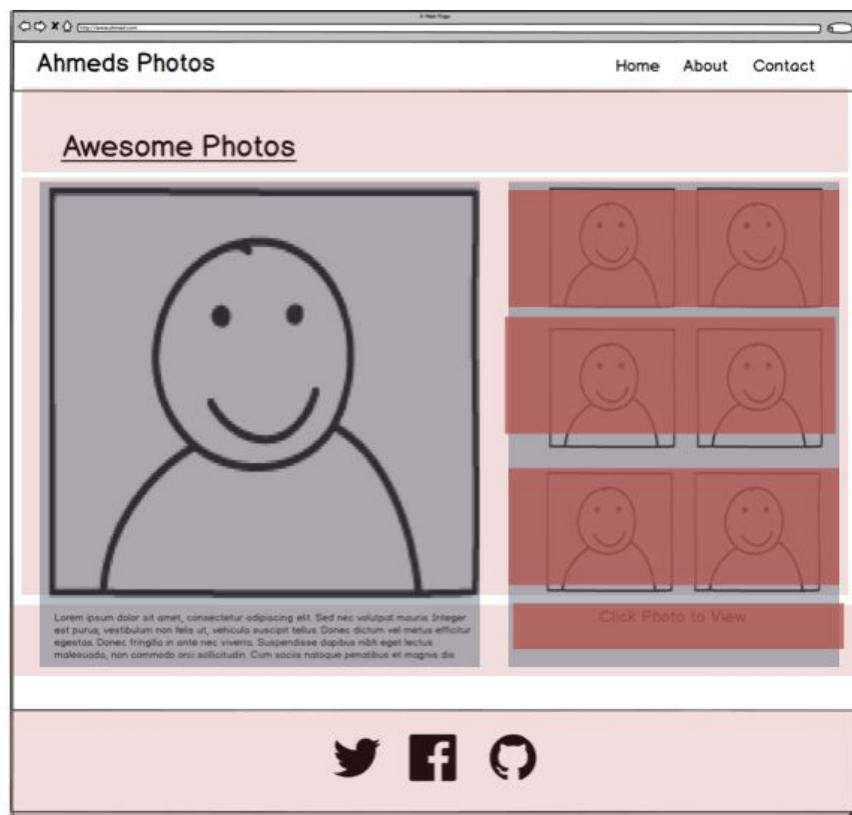
1

2

1



Total
Not
relevant



SUB-
ROWS

1

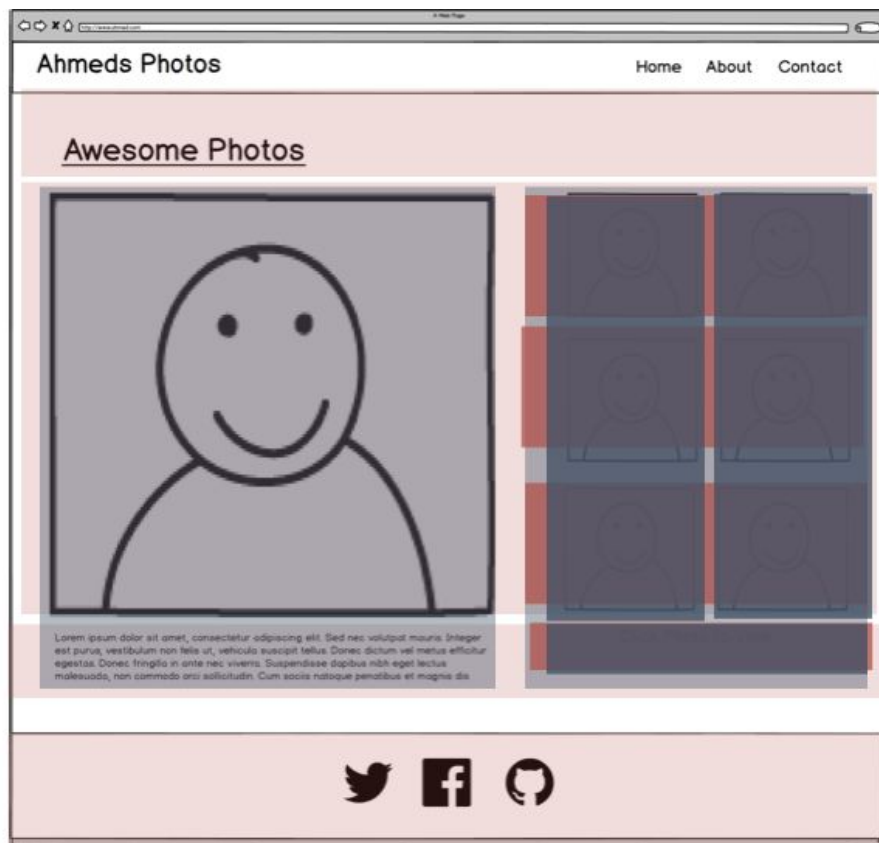
1

1

1

4

Total



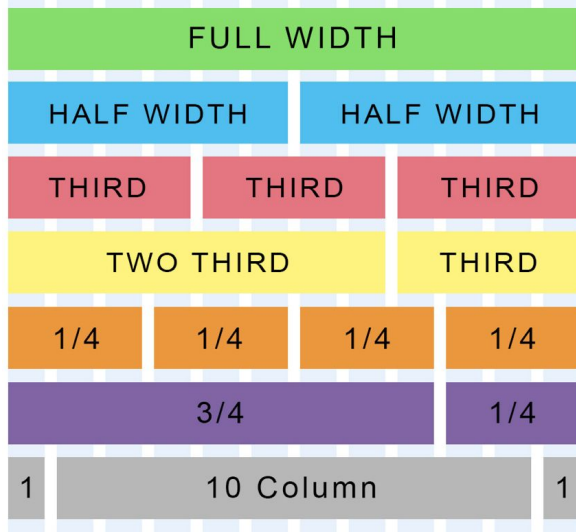


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GRIDS AND BOOTSTRAP





BOOTSTRAP GRID

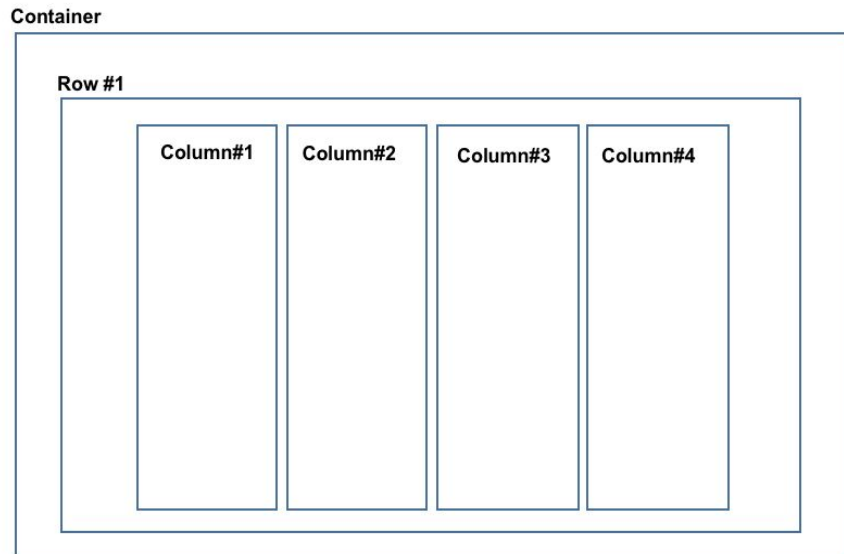
Bootstrap lets you organize content based on the “number of columns” a div spans – out of a total 12 columns.

EXAMPLE:

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

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

BOOTSTRAP GRID



Each of these elements is implemented by creating a div with a specific class name.

Every Bootstrap Grid is made up of...

containers - which wrap the entire grid

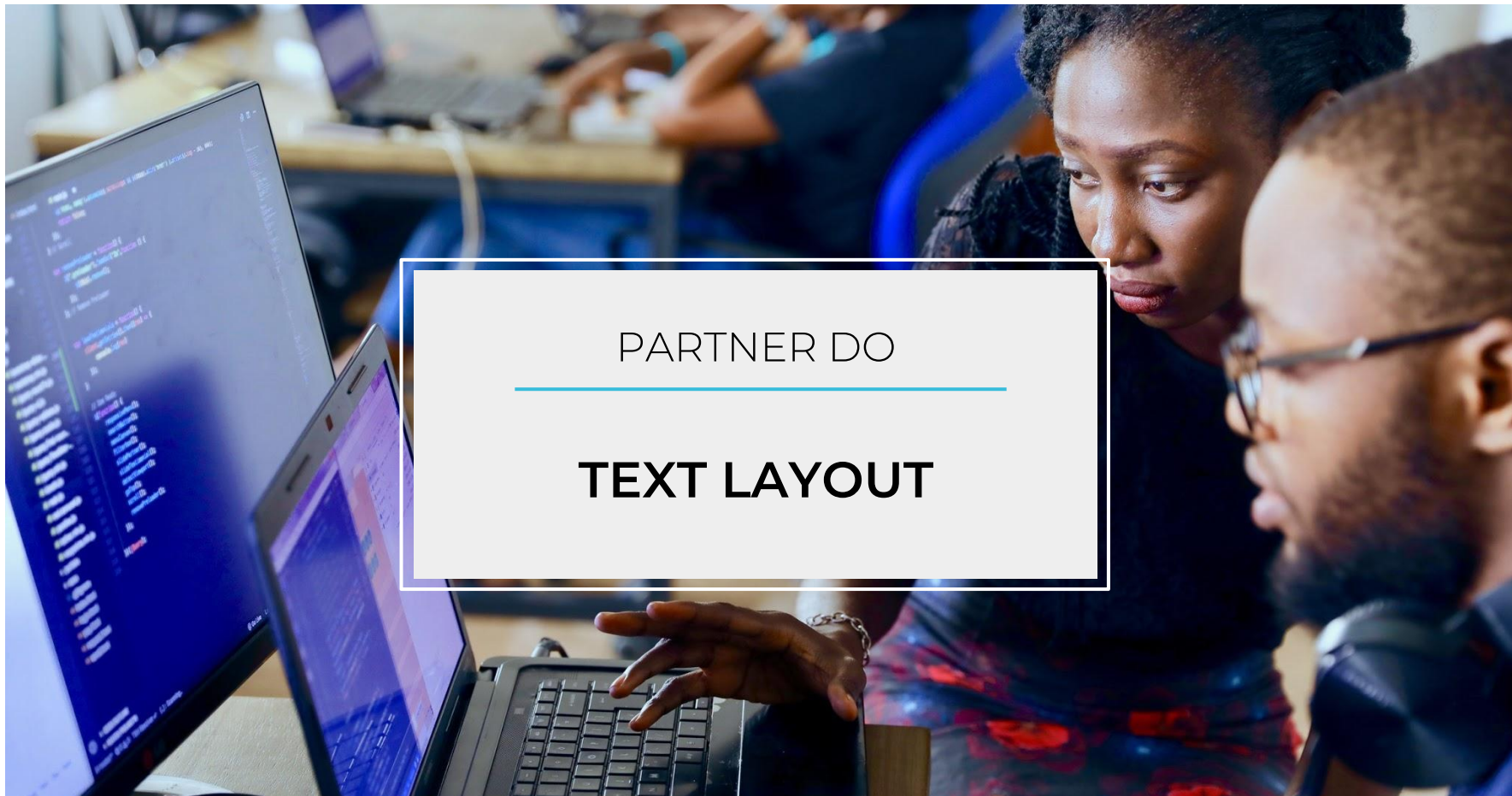
rows - which are defined first and are just rows

columns - which are defined within rows and specify the columns. The sum total of all columns within a row must add up to 12.



INSTRUCTOR DO

Coding Grids



PARTNER DO

TEXT LAYOUT

Header

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Create this Layout with Bootstrap's Grid

A person in a red and blue plaid shirt is gesturing with their hands while presenting. In the background, a laptop displays a wireframe design, and a smartphone lies on a notebook on a wooden table.

INSTRUCTOR DO

Bootstrap Wireframe



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MEDIA QUERIES



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).

MEDIA QUERIES

Bootstrap extensively uses media queries under the hood to help you create mobile responsive websites.

But remember! Media queries must be declared last.



INSTRUCTOR DO

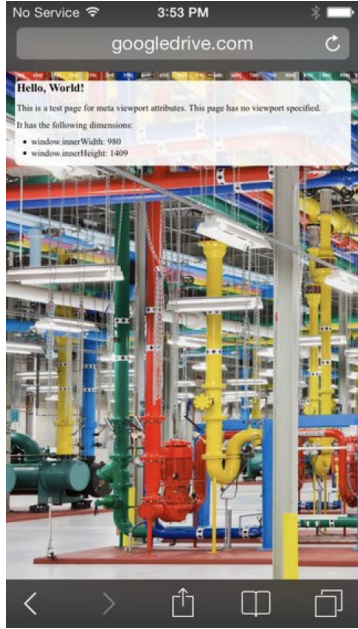
Media Queries

A woman and a man are looking at a laptop screen in a classroom setting. The woman is pointing at the screen, and the man is looking at it. The background shows other students at their desks.

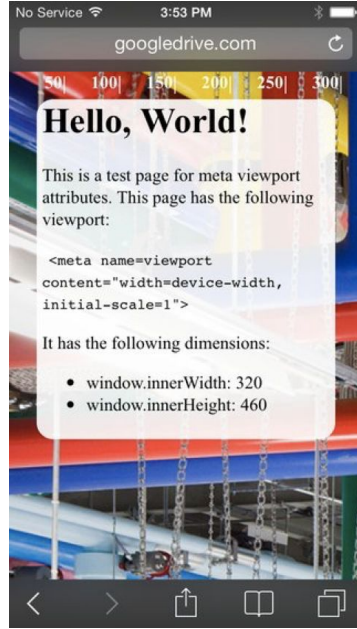
PARTNER DO

Media Query

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">
```

Then include media queries for various sized screens:

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

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




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Terminal/Git Bash Checkpoint

Behavioral Interview Prep

