

A top-down photograph of a dark-stained wooden desk. In the upper-left corner, a portion of a silver laptop is visible. Next to it is a small white ceramic plate with two cookies; one is whole and the other is broken. A single nut lies on the desk surface near the plate. The word "OBJECTIVES" is printed in large, white, sans-serif capital letters in the lower-left area of the image.

# OBJECTIVES

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

- ☐ Deploy sites using GitHub Pages.
- ☐ Be able to customize your websites typography using CSS and Google Fonts
- ☐ Style elements based on state using CSS pseudo classes
- ☐ Add Bootstrap Components to your page.

# GITHUB PAGES





A Deep and Complex diagram above on how the internet works



## DEPLOYMENT

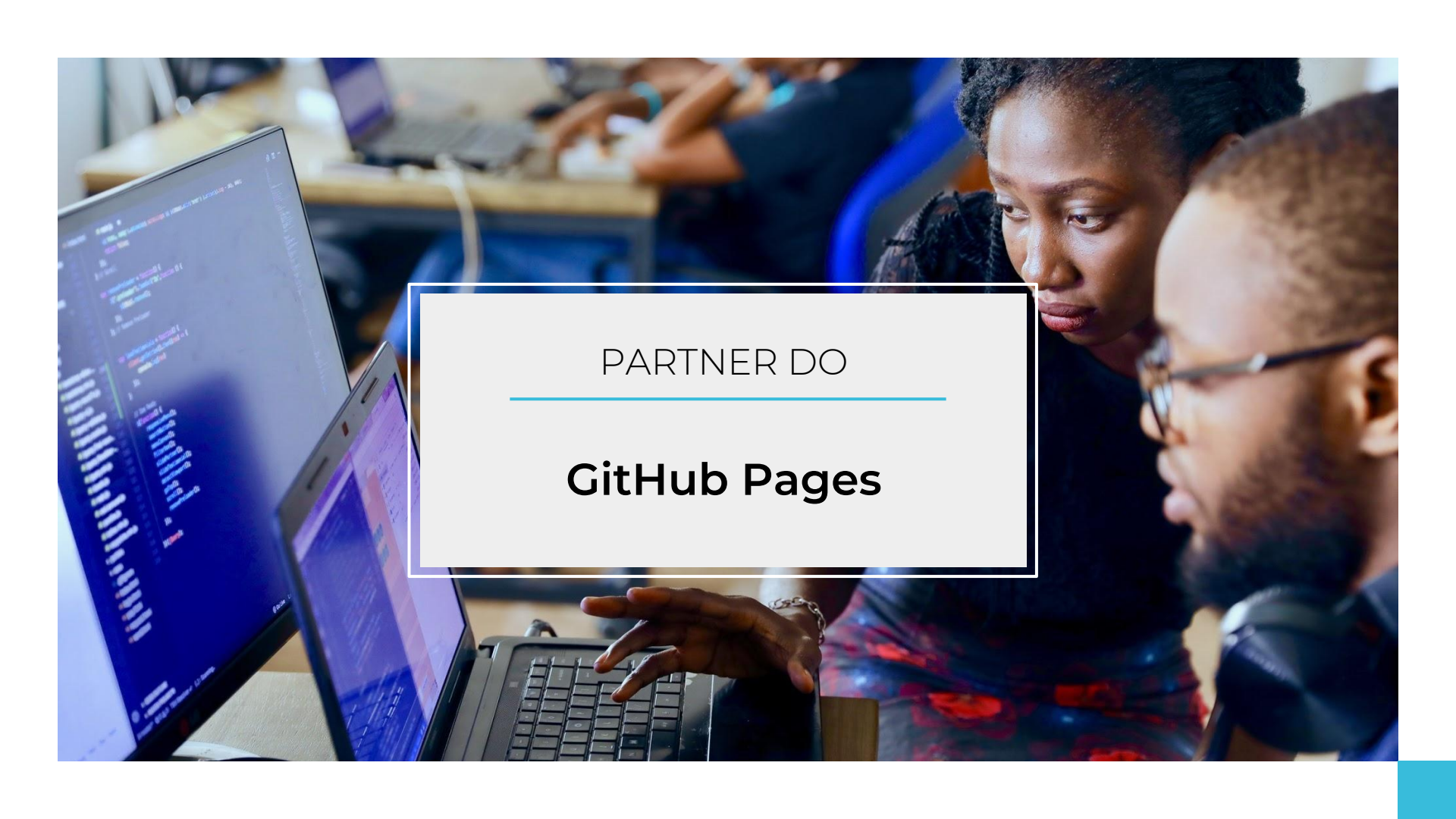
GitHub provides hosting for static websites – which means we can deploy our websites and applications onto their servers for the world to see.

The background image shows a person in a red and blue plaid shirt gesturing with their hands while sitting at a wooden desk. On the desk, there is a laptop displaying a web interface, an open notebook, and a black smartphone. The scene is set in what appears to be a classroom or office environment.

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## **GitHub Pages**



A woman and a man are looking at a laptop screen in a coding environment. The woman is pointing at the screen, and the man is looking at it. The background shows other people working at desks with laptops.

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# GitHub Pages



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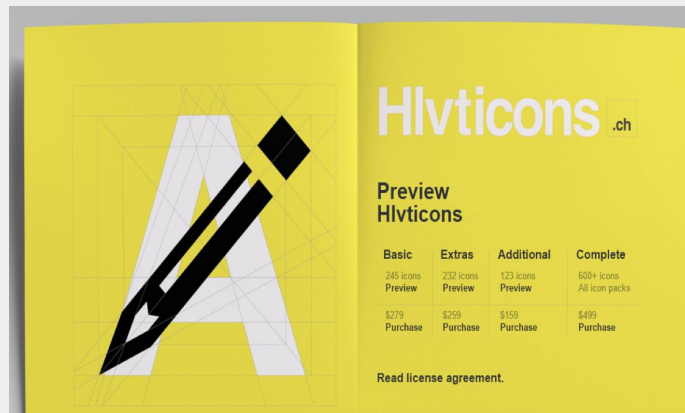
# TYPOGRAPHY





# Typography is Huge!

Typography can play a huge role in the visual aesthetic and emotional identity of a webpage.



# Typographic Properties

## Line Height

Distance between lines of text on a page (Golden Ratio of 1.5x font).

## Font-Size

Actual size of lettering. Should be at least 16 px on modern pages.

<https://www.smashingmagazine.com/2011/10/16-pixels-body-copy-anything-less-costly-mistake>

## Line Length

Not a CSS property but rather a standard. Should be about 50-75 characters per line on a desktop .

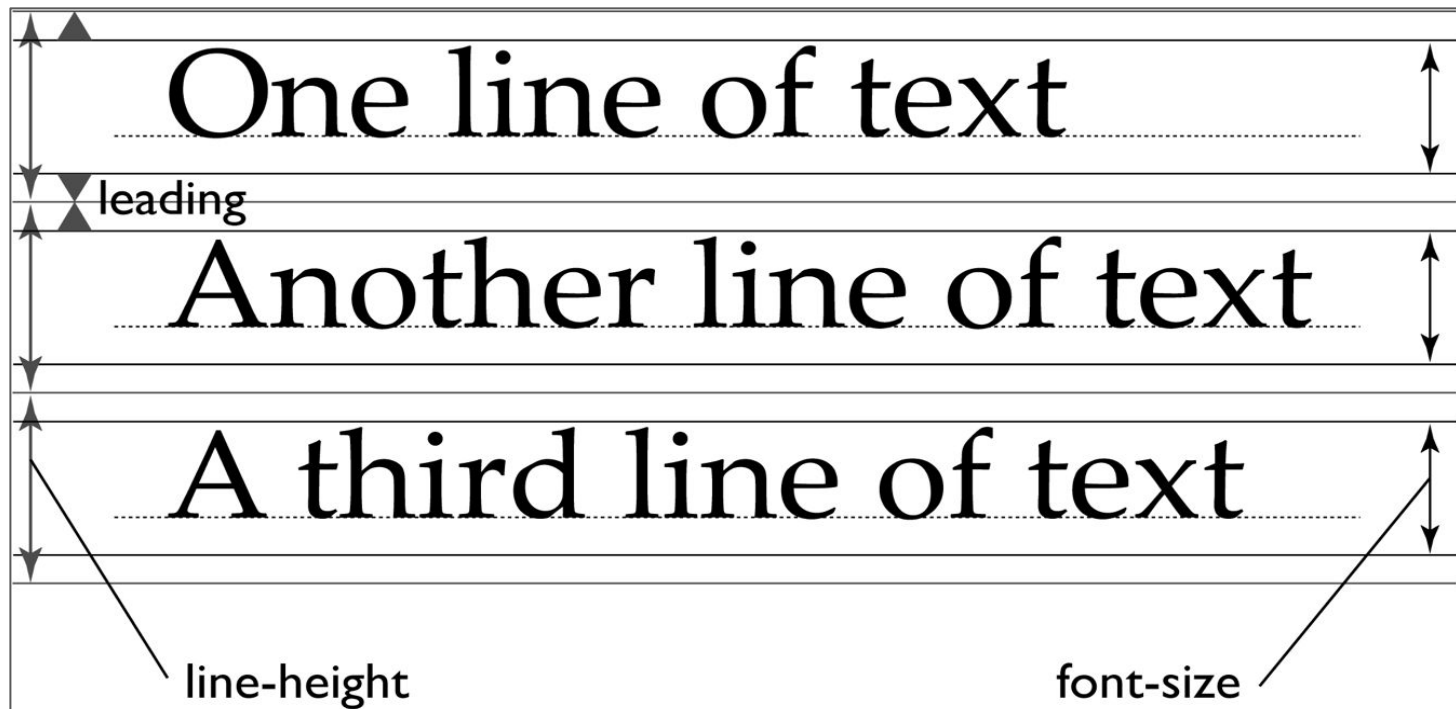
<http://baymard.com/blog/line-length-readability>

## Letter Spacing

Spacing between individual letters—try to avoid cramping

## Sans-Serif vs Serif

Sans-serif are fonts sans their serifs—no tails. They're easier to read online.



A woman and a man are looking at a laptop screen in a coding environment. The woman is pointing at the screen, and the man is looking at it. The background shows other people working at desks with laptops.

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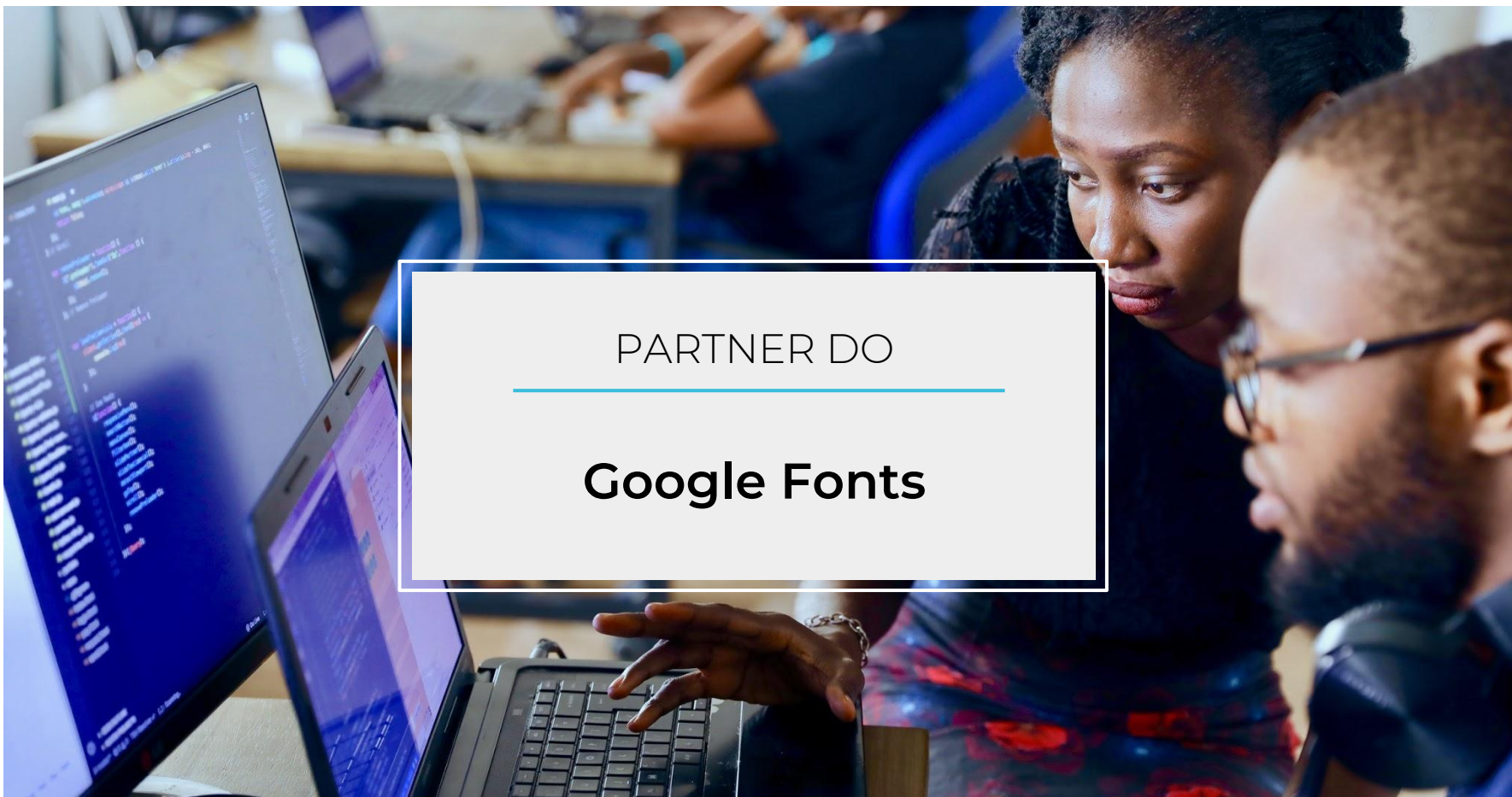
## CSS Typography



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**Google Fonts**





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**Google Fonts**



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# CSS PSEUDO CLASSES



# Pseudo Classes

CSS has keywords that can be added to selectors. These highlight the **special states** of the selected element.

Great example: CSS can hook onto the specific moment when a link is **hovered over** using the **:hover** pseudo-class.

Complete list of pseudo-classes found here:

<https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-classes>

# Pseudo Classes

:active

:any

:checked

:default

:dir()

:disable

:empty

:enabled

:first

:first-child

:first-of-type

:fullscreen

:focus

:hover

:indeterminate

:in-range

:lang()

:last-child

:last-of-type

:left

:link

:not()

:nth-child()

:nth-last-of-type()

:nth-of-type()

... the list goes on

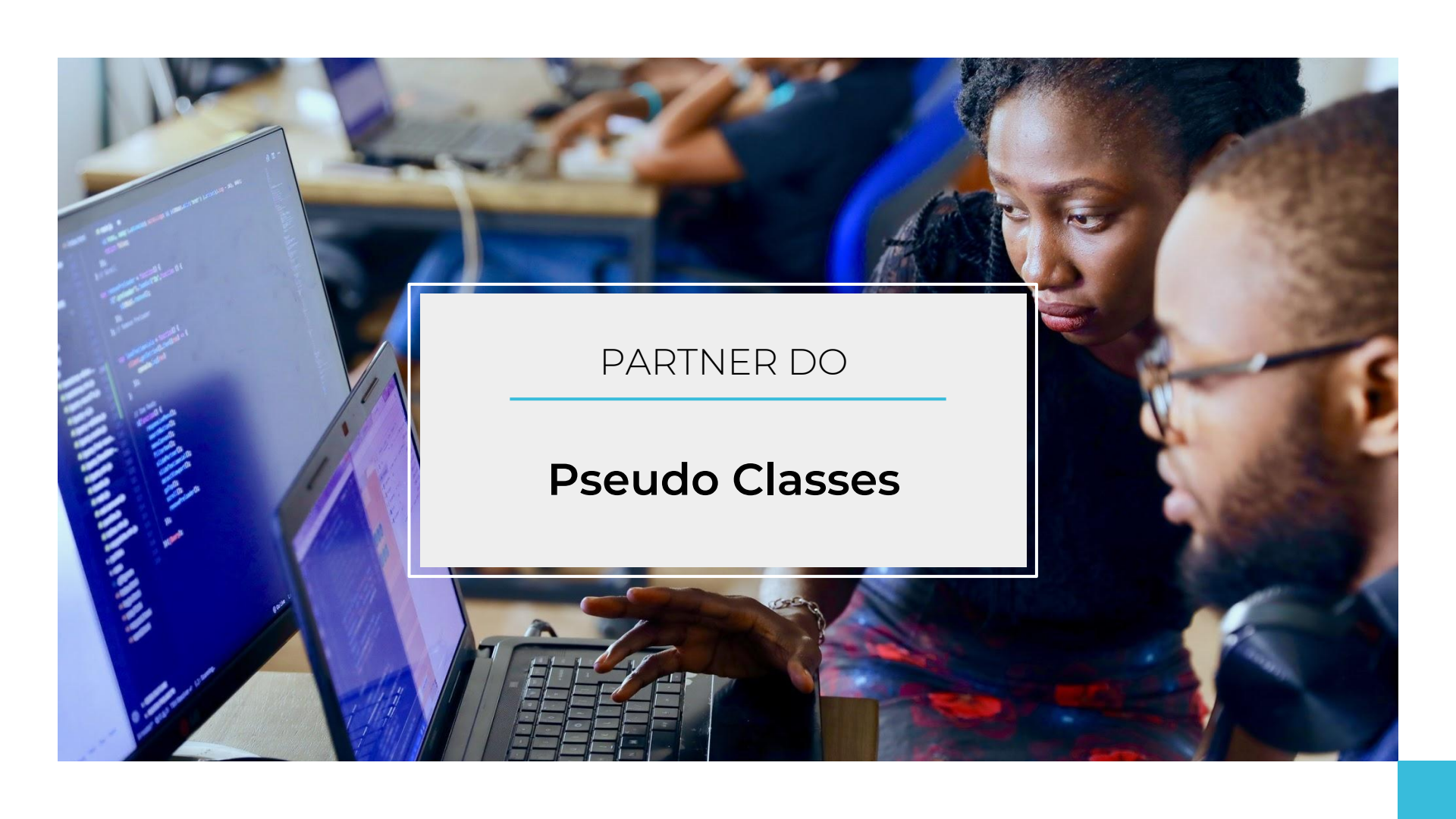


The background image shows a classroom setting. On the left, a person wearing a red and blue plaid shirt is gesturing with their hands. In the center, a white rectangular box with a thin blue border contains the text 'INSTRUCTOR DO' and 'Pseudo Classes'. To the right, a laptop is open on a wooden desk, displaying a webpage with blue and red elements. In front of the laptop, an open notebook and a black smartphone are visible. The overall scene is slightly blurred, focusing attention on the text overlay.

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## Pseudo Classes

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 screen displays code and a list of items. The background shows other students at desks.

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# Pseudo Classes



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# Intro to Bootstrap





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**Where's The CSS?**



## EXTERNAL CSS LINK

```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css">
```

## PRE-DEFINED CSS CLASSES

```
<!-- Jumbotron element -->
```

```
<div class="jumbotron">
```

```
  <!-- centered text -->
```

```
  <h1 class="text-center"><strong>Awesome Header</strong></h1>
```

```
  <h2 class="text-center">Smaller Awesome Header</h2>
```

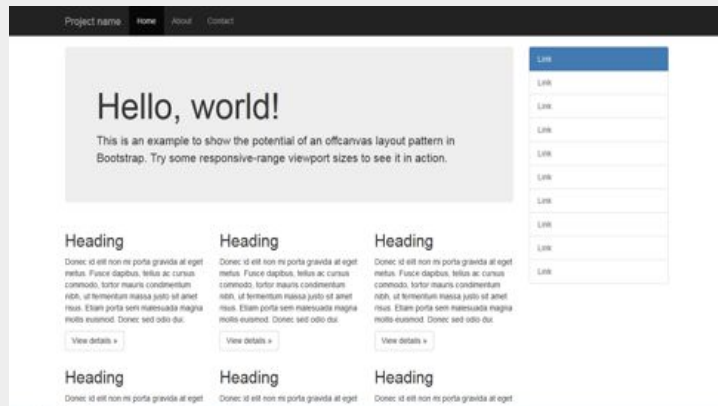
```
  <h3 class="text-center">Even Smaller Header</h3>
```

```
</div>
```

Twitter Bootstrap is a free collection of tools for creating websites and web applications.

It comes with a pre-built design template for typography, forms, buttons, navigation, UI elements and JavaScript.

Documentation here: <http://getbootstrap.com/>

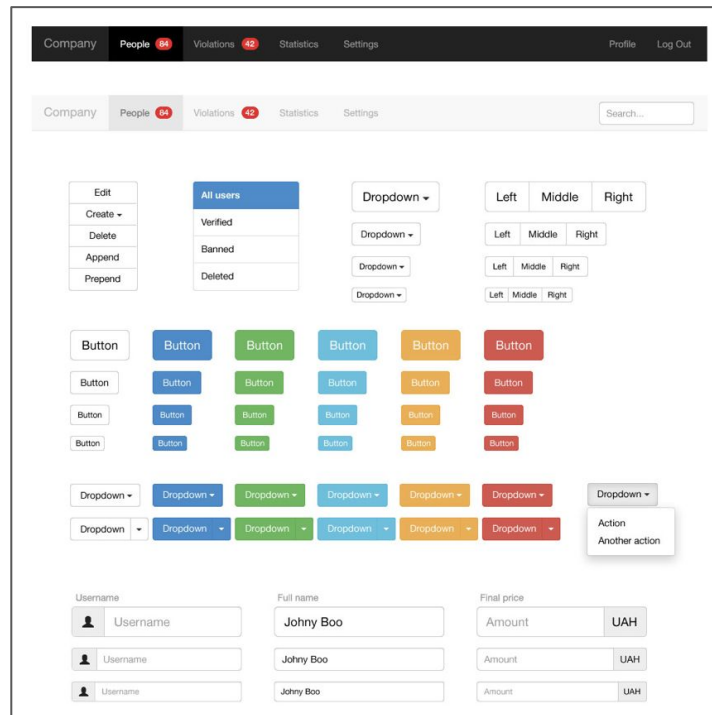


# WHY BOOTSTRAP?

## It's a 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.



# JUMBOTRON

## Hello, world!

This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

[Learn more](#)

```
<div class="jumbotron">
  <h1>Hello, world!</h1>
  <p>...</p>
  <p><a class="btn btn-primary btn-lg" href="#" role="button">Learn more</a></p>
</div>
```

# FORM

Email address

Password

File input

No file chosen

Example block-level help text here.

☐ Check me out

```
<form>
  <div class="form-group">
    <label for="exampleInputEmail1">Email address</label>
    <input type="email" class="form-control" id="exampleInputEmail1" placeholder="Enter email">
  </div>
  <div class="form-group">
    <label for="exampleInputPassword1">Password</label>
    <input type="password" class="form-control" id="exampleInputPassword1" placeholder="Password">
  </div>
  <div class="form-group">
    <label for="exampleInputFile">File input</label>
    <input type="file" id="exampleInputFile">
    <p class="help-block">Example block-level help text here.</p>
  </div>
  <div class="checkbox">
    <label>
      <input type="checkbox"> Check me out
    </label>
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```



## WHY BOOTSTRAP?

### 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



A person wearing a red and blue plaid shirt is gesturing with their hands while sitting at a wooden desk. On the desk, there is a laptop displaying a website, an open notebook, and a black smartphone. The background is blurred, showing other people in a classroom or meeting setting.

INSTRUCTOR DO

## **Bootstrap Components**

A woman and a man are looking at a laptop screen in a coding environment. The woman is pointing at the screen, and the man is looking at it. The background shows other people working at desks with laptops.

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## Bootstrap Components

A top-down photograph of a dark-stained wooden desk. In the upper-left corner, a portion of a silver laptop is visible. To its right, a small white ceramic plate holds a single chocolate chip cookie, with a few crumbs scattered nearby. The word "OBJECTIVES" is printed in large, white, sans-serif capital letters across the lower half of the image.

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