

INTRODUCTION TO CSS FRAMEWORKS

CSEC WEB DIVISION

WHAT ARE CSS FRAMEWORKS?

- Also called frontend frameworks
- Pre-Prepared abstract CSS packages made up of files of standardized code
- Packages contain pre-made HTML, CSS and JS files
- Allows you to work with HTML and CSS much easier and less tedious
- Provides a common structure of code so it doesn't have to be rewritten again
- Has a grid for responsive design

WHAT CAN WE DO WITH THEM?

- Easily make responsive websites
- Allow more creativity with web designs

BOOTSTRAP



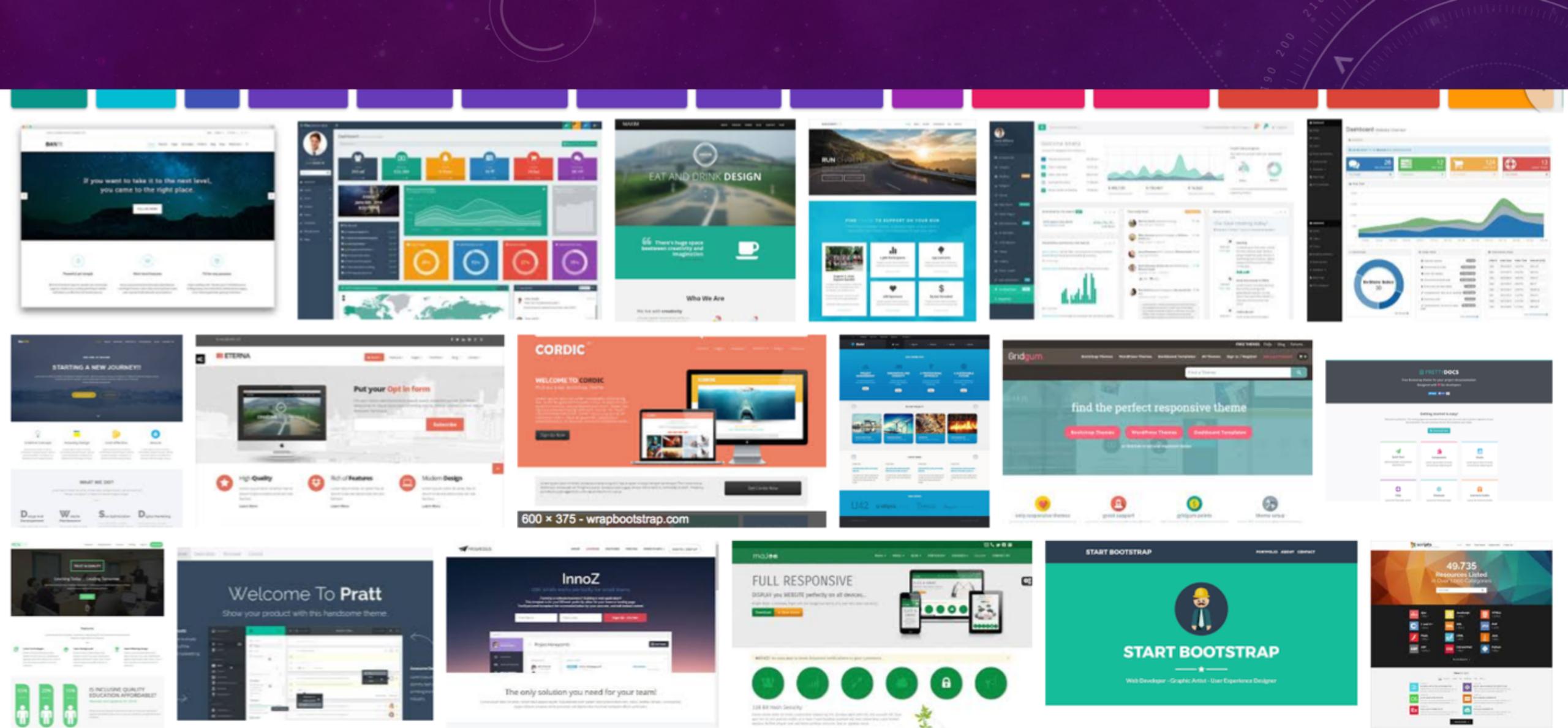
BOOTSTRAP

- One of the most popular CSS frameworks
- Mobile First Design
- Originally created by a team at Twitter
- Known for its simplicity in making elements



DISADVANTAGES FOR BOOTSTRAP

- Bootstrap is widely popular but suffers many disadvantages
- Has a very sub-standard generic look
- Doesn't have much customizability without plugins
- Slow loading times *If you include all the features



POPULAR CSS FRAMEWORKS

- Bootstrap
 - Example: csec.club
- Materialize
- Foundation
 - Examples: <https://zurb.com/responsive>
- Semantic
 - Example: web.csec.club

DIFFERENCES BETWEEN CSS FRAMEWORKS

Code Syntax (Ex. Bootstrap vs Semantic)

Primary Secondary Success Danger Warning Info Light Dark Link

```
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>
```

Example

Save

Discard

```
<button class="ui primary button">
  Save
</button>
<button class="ui button">
  Discard
</button>
```

Features (Semantic)

Example

Like 1,048

Forks 1,048

```
<div class="ui labeled button" tabindex="0">
  <div class="ui red button">
    <i class="heart icon"></i> Like
  </div>
  <a class="ui basic red left pointing label">
    1,048
  </a>
</div>
```

HOW DO WE USE THEM IN OUR SITE?????????

CDN

- A **content delivery network** or **content distribution network (CDN)** is a geographically distributed network of proxy servers and their data centers. The goal is to distribute service spatially relative to end-users to provide high availability and high performance. CDNs serve a large portion of the Internet content today, including web objects (text, graphics and scripts), downloadable objects (media files, software, documents), applications (e-commerce, portals), live streaming media, on-demand streaming media, and social networks.

HOW DO WE USE THEM?

- Import the Framework's dependency files i.e HTML, CSS and JS files
- Two Options:
- Adding the CDN links
 - Example
 - ```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/css/bootstrap.min.css">
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" ></script> <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.3/umd/popper.min.js" ></script> <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/js/bootstrap.min.js" ></script>
```
- Adding a local copy of a css framework
  - ```
<link rel="stylesheet" href="bootstrap/bootstrap.min.css"
```

DOCUMENTATION

- Reading the documentation is the easiest way to learn how to use the framework
- A lot of CSS frameworks has extensive documentation
- Code as you go

LIVE DEMO

