Introduction to Bootstrap

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Bootstrap: What is it?
Bootstrap is a UI kit for easier development

- Created by two developers working at Twitter in 2010.
- Released to the public, received a HUGE following very quickly.
- Can be downloaded/installed locally or linked to via CDN
- Lots of applications use Bootstrap as a starting point for design.
- ASU has a library of Bootstrap components tailored to meet brand standard requirements.
Where does ASU’s Bootstrap code live?

version 3.3.7

Github: gios-asu
“Web Standards”

WebSpark
ASU Web Standards
WordPress Theme (GIOS)

version 4.x

Github: ASUEngineering
Also “Web Standards”

“Pitchfork”
ASU Engineering

“WebSpark for D8”
Why use Bootstrap?

- Fast and easy-to-use
- Mobile-first approach
- Standardized set of UI components like buttons, tabs, etc.
- Open source library with regular contributions.
- Compatible with all modern browsers
Bootstrap = the matrix. It’s all around you.
How it works
Grid system

Every row has 12 columns. Think of your div in terms of how many columns you want it to span.
Grid system

CSS classes

.container -- This is the wrapper for your grid. Already included in Drupal.

.row -- Use this to start a row

.col-x-x -- Use this to specify the columns

- The first element is your viewport size: xs (mobile); sm (tablet); md (desktop); lg (big screen)
- The second element is the number of columns to span
- **Example**: col-md-6 means that on desktop, make this div 6 columns wide.
- **Example**: col-sm-12 means that on mobile, make this span the whole row.
- You can combine these: <div class="col-md-6 col-xs-12">
Other useful classes

.hidden-XX -- Example: .hidden-xs means “hide this on a phone”

.push and .pull -- Move items around in different viewports

.space-top-md -- Add space to a section in TBMenu
Examples in Webspark

https://annualreport.asu.edu

Leading a NASA deep-space mission

ASU’s Psyche Mission, a journey to a metal asteroid, is selected for flight, marking the first time the school will lead a deep-space NASA Discovery Program mission and the first time scientists will be able to see what is believed to be a planetary core.

Researchers explore algae as a renewable fuel

As part of a nearly $6 million collaborative project with three U.S. Department of Energy labs, ASU researchers work to pinpoint which algae is best used as a source for renewable energy.

https://asu.edu/about

“Our objective is to create an environment in which a person can learn anything, and thus we must avail ourselves of every tool, mechanism and means.”
— Michael M. Crow, president, ASU

88+ percent of ASU students receive some level of financial aid

22-to-1 student-to-faculty ratio ensures personal attention

350+ forward-thinking undergraduate degree programs

400+ graduate degree and certificate programs

6,800+ students in Barrett, The Honors College at ASU

400+ meaningful student research opportunities
The ASU Web Standards WordPress theme requires some knowledge of Bootstrap in order to build a page.

However, the GIOS team did want to provide a quick “starter kit” for easier page construction. It helps to have a pattern in mind before you code.

Hence, the Pattern Library found here:

- [https://wordpress.asu.edu/web-standards/page-layout-templates/](https://wordpress.asu.edu/web-standards/page-layout-templates/)

Suggestions and contributions welcome.
Break it down.
A Degree Detail Page

Pattern available in the Pattern Library:

```html
<div class="container">
  <div class="row">
    <!-- Hero content goes here -->
  </div>
  <div class='row'>
    <!-- Three gold buttons -->
  </div>
</div>

<div class="container grey">
  <div class="row">
    <!-- Degree Offered Column -->
    <!-- Application Deadlines Column -->
    <!-- Financing Your Education Column -->
  </div>
</div>

... way more stuff at the bottom
Degree Detail: Hero

Lead in Sentence describing the degree.

Lorem Ipsum text...

Lorem Ipsum text...

Request Information

Visit our Campus

Apply Now

Lorem Ipsum text...
Together, Our Potential is Limitless

There has never been a more exciting moment to be a Sun Devil and there have never been greater opportunities for our supporters to make a difference.

By supporting Campaign ASU 2020, you share your own personal vision for the institution and ensure that the values that have made ASU great continue to guide us for generations to come.

<a href="https://giving.asu.edu">Give to ASU Now</a>
Giving Day: CTA

What would you give...

...to understand the past to shape the future?
Students explore community newspaper archives to reckon with racism in the past and create a better present.
@ Read about elevating ASU's academic enterprise

...to transform a crazy idea into the innovation of the year?
There was no known vaccine for Ebola until Charles Arntzen developed one—from a tobacco plant.
@ See why "ASU has become synonymous with "innovation"
Demo time.
Copy this and experiment with it

<div class="row">
  <div class="col-md-4 col-sm-12">
    <p>This is a pretty sunset. Frame 1. This is a pretty sunset. Frame 1. This is a pretty sunset. Frame 1.</p>
  </div>
  <div class="col-md-4 col-sm-12">
    <p>This is a pretty sunset. Frame 2. This is a pretty sunset. Frame 2. This is a pretty sunset. Frame 2.</p>
  </div>
  <div class="col-md-4 col-sm-12">
    <p>This is a pretty sunset. Frame 3. This is a pretty sunset. Frame 3. This is a pretty sunset. Frame 3.</p>
  </div>
</div>
The end.

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