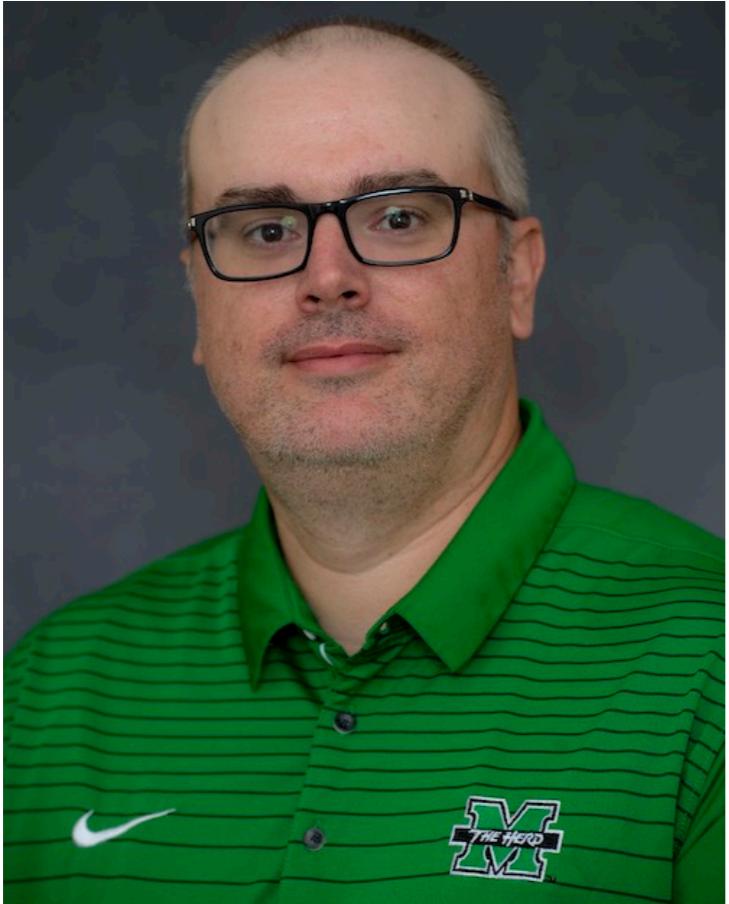


Functional CSS FTW

Using TailwindCSS to Create Our
Own CSS Framework





Christopher McComas

**Manager, Web Communications
Marshall University
cmccomas@marshall.edu
www.cmccomas.com**

Christopher McComas' Home Page

I am 16 years old and live in Barboursville, WV, USA. I am a tenth grader and play varsity baseball and basketball at Huntington Saint Joseph Central High School.

[Here is a page just for St. Joseph Basketball.](#)

[This page is for SportsLeaders®. For the best in NCAA sports.](#)

Inside Pre-Season College basketball Info and TSL's College football Player of the Year.

The 1996 NCAA Division 1-A National Champions



University of Florida Gators

But this is my favorite 1-A team.

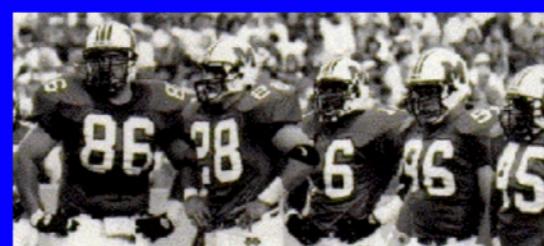


AIR FORCE FALCONS

The 1996 NCAA 1-AA National Champions were ranked #1 throughout the year in The Sports Network and in The SportsLeaders®. They defeated Montana the defending champs easily. Congrats to [Marshall University Thundering Herd](#).



Here is the guys who do the dirty work for Marshall..







Announcements and Events (last new posting on Dec 11)

Go!

[Academic Units](#)

[Advantage Valley](#)

[Alumni Center](#)

[Campus Units](#)

[Campus Maps](#)

[International](#)

[Libraries](#)

[News and Events](#)

[Personal Webpages](#)

[Phonebook](#)

[Web Exploration](#)

[Web Publishing](#)

[Write Us!](#)

UPDATED SEARCH!!

Search MU

[Go Herd!](#)

is your source for MU
Athletics information
online.

Welcome Guests!

Receive a welcome from our President, tour our campus, locate Huntington, WV, and get your Marshall-related questions answered.

Student Zone

You'll find everything a student could want to know here: information regarding admissions, financial aid, registration (including MILO), the University calendar, and much more. Help us serve you better by filling out an [online survey about MILO](#).

The Workplace

Items of interest to University employees can now be accessed online, including grant opportunity information, a link to the official TIAA-CREF homepage, the [Job Opportunities Bulletin](#) online and more...

Community

Here you can find links to Huntington, WV's webpage, local weather, local Internet Service Providers, other institutions with which Marshall has relationships, and much more...

Campus Service Providers

This is a list of campus units that provide services and resources to MU students, faculty, and staff, excluding academic departments.

[Advantage Valley](#), a regional economic development collaboration including Huntington, Putnam County, and Charleston West Virginia, offers information about our region to the world...

Try the [Netscape 4.0 enhanced](#) version of the MU homepage.



Microsoft Move to WordPress Fall 2012
NET 400+ Sites



300+ Administrators
ExpressionEngine



Future Students

[About Marshall: The Facts](#)[Course Catalogs](#)[Financial Aid](#)[Housing Information](#)[Tuition Information](#)[Resources](#)[Request Info](#)[Schedule a Visit](#)[Apply Now](#)

Marshall Roots

Launched 2012

Built with Bootstrap 2

University Communications News Releases

Blake Collection at Marshall receives Civil War-era items

Dr. and Mrs. John O'Brien, from the eastern panhandle of West Virginia, have given a group of items and books to the Rosanna Blake Collection.

School of Medicine professor serves as editor for medical school curriculum e-book



pediatrics at the Joan C. Edwards School of Medicine, and a team of 48 students from 11 medical schools have created a medical curriculum e-book that was released this month online.

Dr. Aaron M. McGuffin, associate professor in the department of

Marshall Recreation Center and First-Year Residence Halls partner to bring Christmas joy to Tri-State

The Marshall Recreation Center and the Marshall University First-Year Residence Halls have partnered this holiday season to help local agencies and children in the Huntington community.

Morgan recognized for expertise in education technology, named inaugural Blackboard MVP



Brian M. Morgan, chairman and associate professor in the

Department of Integrated Science and Technology at Marshall University, has been named one of 17 inaugural Blackboard MVPs by education technology company Blackboard Inc.

- Dropdowns
- Button groups
- Button dropdowns
- Navs
- Navbar
- Breadcrumbs
- Pagination
- Labels and badges
- Typography
- Thumbnails
- Alerts
- Progress bars
- Media object
- Misc

- About Marshall: The Facts
- Course Catalogs
- Financial Aid
- Housing Information
- Tuition Information
- Resources
- Request Info

Action ▾

Action ▾

Schedule a Visit

Apply Now

Blake Collection at Marshall receives Civil War-era items

Dr. and Mrs. John O'Brien, from the eastern panhandle of West Virginia, have given a group of items and books to the Rosanna Blake Collection.

Look, I'm in a well!



CURRENT STUDENTS

FACULTY & STAFF

EMERGENCY INFO

MU TOOLS ▾

Title

Home

Link

Link



Best. Decision. Ever.

Marshall University is a public university wholly committed to student success—in the classroom and beyond.

[Learn More](#)[Apply](#)

MUX2

Launched 2014



Built with Foundation 5

Connect with [#MarshallU](#)

Marshall at a Glance

100+

Degree programs in a broad range of fields

\$23M

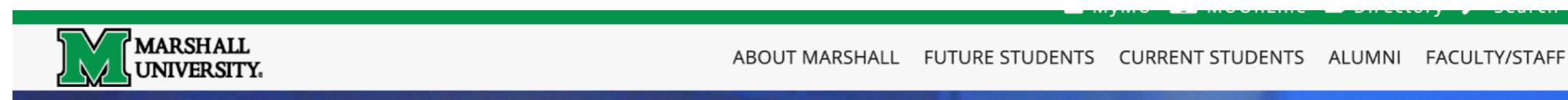
For research each year into some of today's most pressing challenges

16

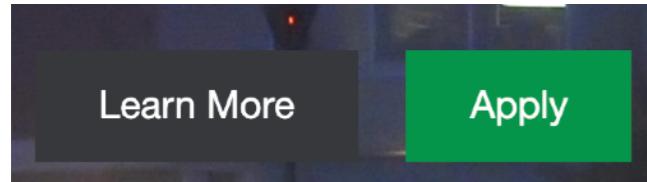
Thundering Herd teams compete in Conference USA - NCAA Division I

10

Locations to serve students throughout the region



Default Button



A Geography degree prepares you for life.

Geographers seek to understand why things vary from place to place and how their distributions change over time. We use the latest [Geographic Information Systems](#) technologies, Remote Sensing, and unmanned aerial vehicles (drones) as well as traditional social science and natural science analysis. While you earn your Geography degree, you become a professional who does not merely "know" geography, you practice it. Geographers address key challenges of society such as economic development, globalization, and territorial conflict. Geographers also tackle human-environment challenges such as severe weather, climate effects, sustainability, land use, and natural resource management. Geography bridges the natural and social sciences, as well as the [STEM](#) disciplines.

Recent Posts

[Link 1](#) April 14, 2018

[Link 2](#) April 8, 2018

[Link 3](#) April 1, 2018

[Link 4](#) March 19, 2018

March 9, 2018

This is a regular panel.
It has an easy to override visual style, and is appropriately subdued.

Future Students[About Marshall: The Facts](#)[Course Catalogs](#)[Financial Aid](#)[Housing Information](#)[Tuition Information](#)[Resources](#)[Request Info](#)[Schedule a Visit](#)[Apply Now](#)**University Communications News Releases****Blake Collection at Marshall receives Civil War-era items**

Dr. and Mrs. John O'Brien, from the eastern panhandle of West Virginia, have given a group of items and books to the Rosanna Blake Collection.

School of Medicine professor serves as editor for medical school curriculum e-book

Dr. Aaron M. McGuffin, associate professor in the department of pediatrics at the Joan C. Edwards School of Medicine, and a team of 48 students from 11 medical schools have created a medical curriculum e-book that was released this month online.

Marshall Recreation Center and First-Year Residence Halls partner to bring Christmas joy to Tri-State

The Marshall Recreation Center and the Marshall University First-Year Residence Halls have partnered this holiday season to help local agencies and children in the Huntington community.

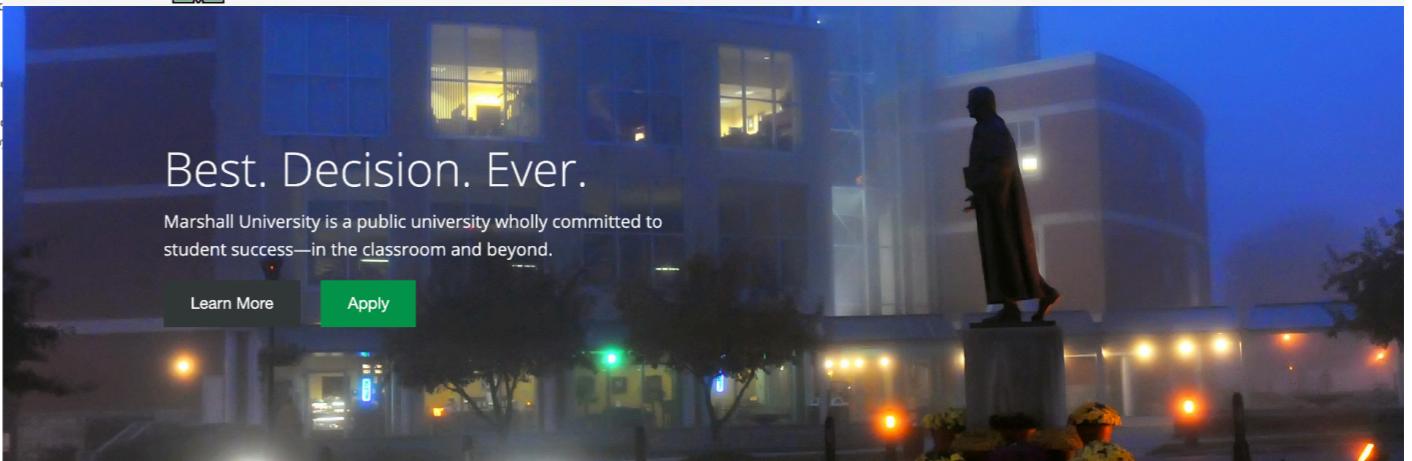
Morgan recognized for expertise in education technology, named inaugural Blackboard MVP

Brian M. Morgan, chairman and associate professor in the Department of Integrated Science and Technology at Marshall University, has been named one of 17 inaugural Blackboard MVPs by education technology company Blackboard Inc.

[MyMU](#) [MUOnLine](#) [Directory](#) [Search](#)[ABOUT MARSHALL](#) [FUTURE STUDENTS](#) [CURRENT STUDENTS](#) [ALUMNI](#) [FACULTY/STAFF](#)

Best. Decision. Ever.

Marshall University is a public university wholly committed to student success—in the classroom and beyond.

[Learn More](#)[Apply](#)

Connect with **#MarshallU**



Marshall at a Glance

100+

Degree programs in a broad range of fields

\$23M

For research each year into some of today's most pressing challenges

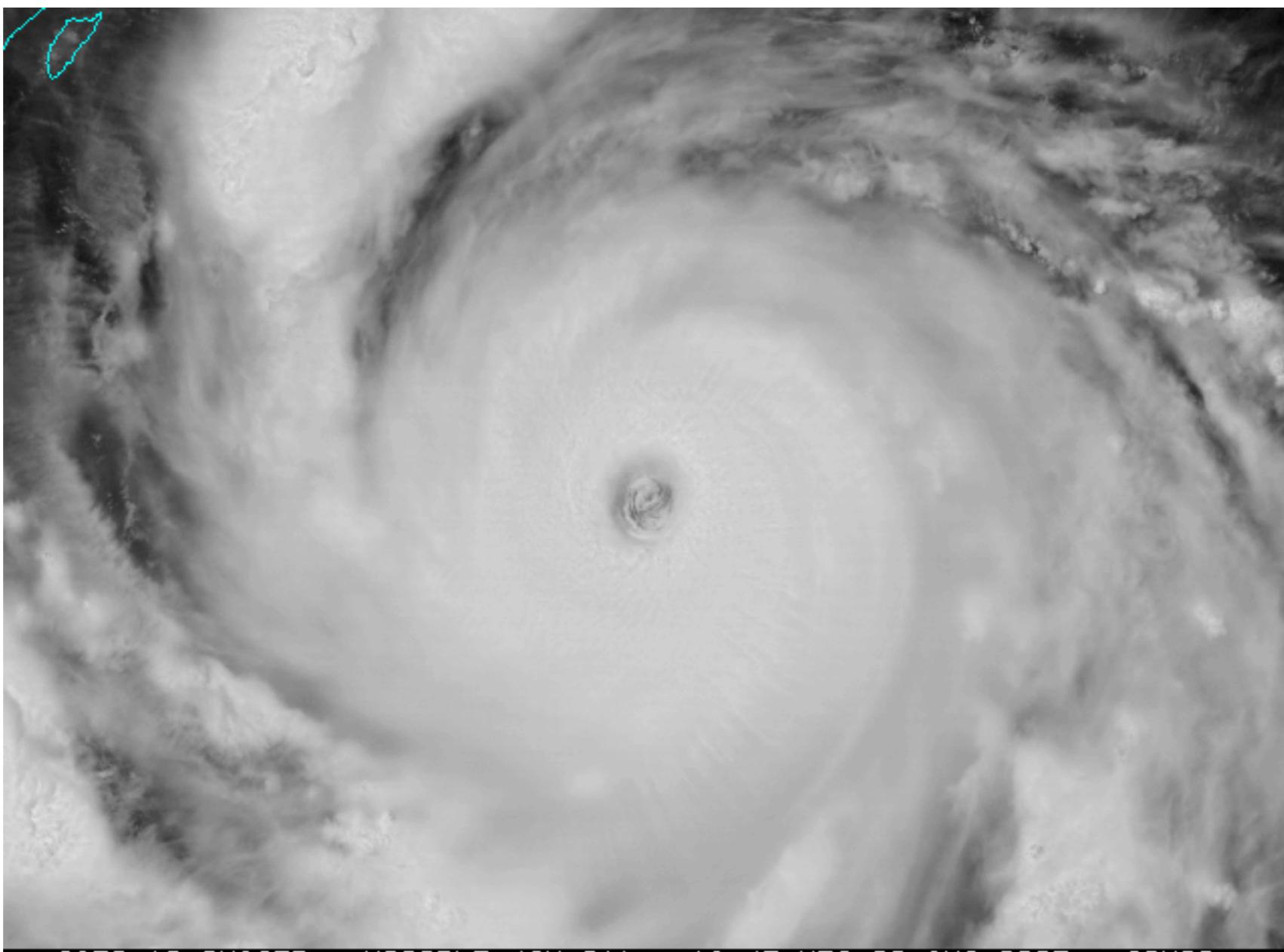
16

Thundering Herd teams compete in Conference USA - NCAA Division I

10

Locations to serve students throughout the region

How do you do this in
How do we do what's best
*<insert framework
for us?
name>*



GOES-12 IMAGER - VISIBLE (CH 01) - 18:45 UTC 20 AUG 2007 - CIMSS

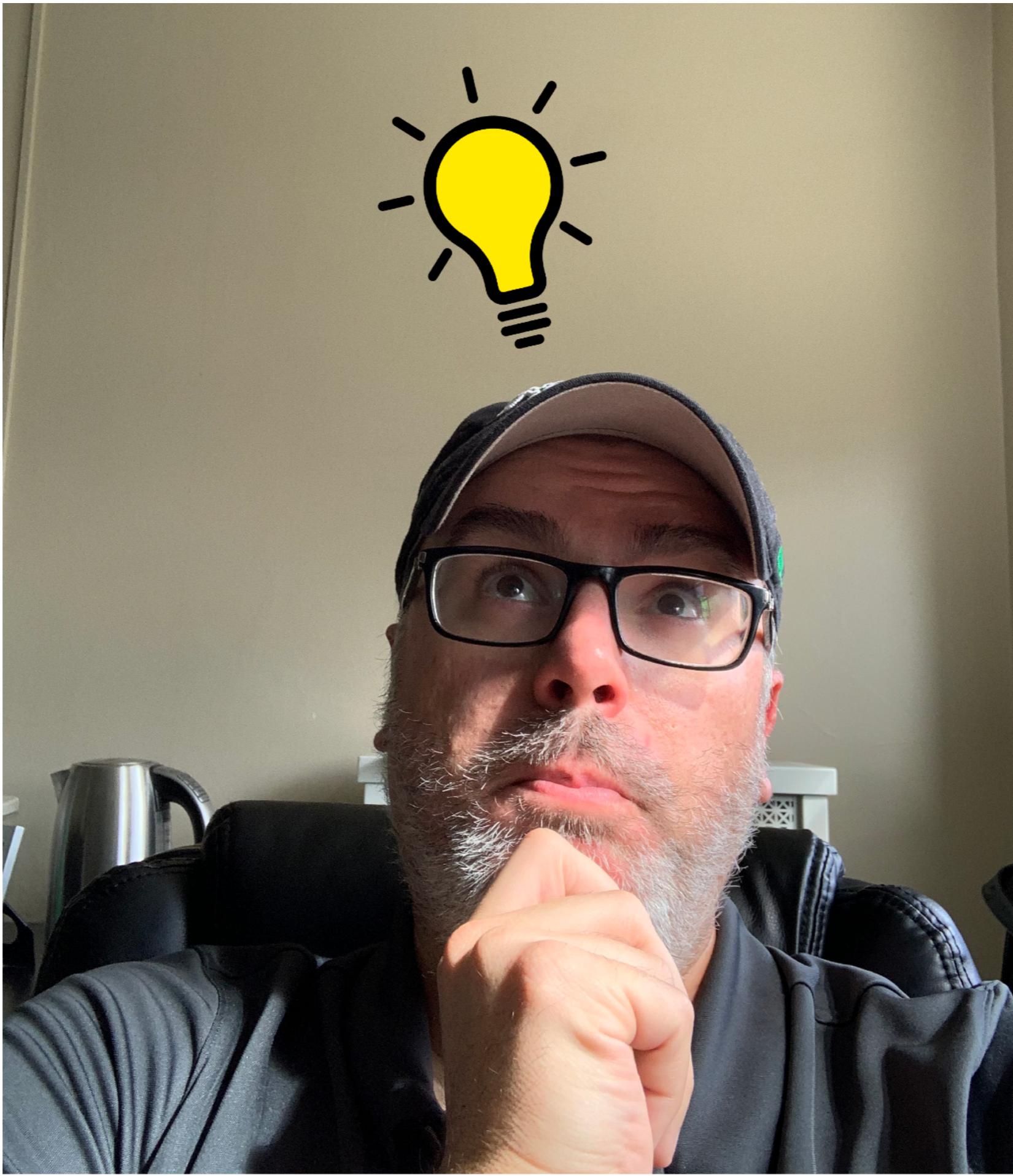


Tailwind CSS

```
blue: {  
  100: '#ebf8ff',  
  200: '#bee3f8',  
  300: '#90cdf4',  
  400: '#63b3ed',  
  500: '#4299e1',  
  600: '#3182ce',  
  700: '#2b6cb0',  
  800: '#2c5282',  
  900: '#2a4365',  
},
```

```
fontSize: {  
  xs: '0.75rem',  
  sm: '0.875rem',  
  base: '1rem',  
  lg: '1.125rem',  
  xl: '1.25rem',  
  '2xl': '1.5rem',  
  '3xl': '1.875rem',  
  '4xl': '2.25rem',  
  '5xl': '3rem',  
  '6xl': '4rem',  
},
```

```
spacing: {  
  px: '1px',  
  '0': '0',  
  '1': '0.25rem',  
  '2': '0.5rem',  
  '3': '0.75rem',  
  '4': '1rem',  
  '5': '1.25rem',  
  '6': '1.5rem',  
  '8': '2rem',  
  '10': '2.5rem',  
  '12': '3rem',  
  '16': '4rem',  
  '20': '5rem',  
  '24': '6rem',  
  '32': '8rem',  
  '40': '10rem',  
  '48': '12rem',  
  '56': '14rem',  
  '64': '16rem',  
},
```



“By writing css, you could make a change in one place and have it propagate everywhere. In principle this sounds highly desirable. But eleven years later, my experience on both large and small teams is that this is the most terrifying thing about css and can cripple an organization’s ability to iterate on their product.”

- Adam Morse, Tachyons creator

<http://mrmrs.cc/writing/scalable-css/>

Functional CSS



What is Functional CSS?

func·tion·al

of or having a special activity, purpose, or task; relating to the way in which something works or operates.

Functions should do **one** thing, if given the **same input** they should produce the **same output**.

EVERY. SINGLE. TIME.

master.blade.php — heweb19

ade.php X

layouts > master.blade.php > html > body > div > div > div

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <title>HighEdWeb '19</title>
    <link href="https://unpkg.com/tailwindcss@^1.0/dist/tailwind.min.css" rel="stylesheet">
  </head>
  <body class=" " >
    <div class=" " >
      
      <div class=" " >
        <div class=" " >Accountancy, M.S.</div>
        <div>Advance in your current position or prepare for a career transition with graduate courses focused on such topics as human resources, and legal and policy issues.</div>
        <a href="#" class="">Learn More</a>
      </div>
    </div>
  </body>
</html>
```

HighEdWeb '19

localhost:3000

Responsive 375 x 1080 100% Online

Accountancy, M.S.

Advance in your current position or prepare for a career transition with graduate courses focused on such topics as human resources, and legal and policy issues.

Learn More



```
<body class="bg-gray-200 py-12 lg:px-12">
  <div class="w-full bg-white lg:w-1/4 lg:shadow lg:rounded lg:py-6 lg:px-6">
    
    <div class="mt-6 pb-6 px-6 lg:px-0 lg:pb-0">
      <div class="font-semibold text-green-500 text-lg">
        Accountancy, M.S.
      </div>
      <div>
        Advance in your current position or prepare for a career transition with graduate courses focused on such topics as
      </div>
      <a href="#" class="w-full text-center mt-4 bg-green-500 text-white py-2 px-4 rounded inline-block hover:bg-green-700">
        Learn More
      </a>
    </div>
  </div>
</body>
```



**THOSE ARE JUST LIKE
INLINE STYLES!**

**IT'S UGLY AND HURTS
MY HEAD!**

**SEPARATION OF
CONCERNS!**

**THAT'S A NIGHTMARE
TO MAINTAIN!**

IT'S JUST INLINE STYLES!

```
<h1 style="font-size: 24px; color: #00B140">About</h1>
<p style="font-size: 12px; color: #121212">Inline styles are universally considered bad.</p>
<h1 style="font-size: 24px; color: #00B140">Why</h1>
<p style="font-size: 12px; color: #121212">For so, so many reasons.</p>
```

```
<h1 class="text-xl text-green">About</h1>
<p class="text-base text-gray-800">Inline styles are universally considered bad.</p>
<h1 class="text-xl text-green">Why</h1>
<p class="text-base text-gray-800">For so, so many reasons.</p>
```

Pseudo Classes and Media Queries

```
<body class="bg-gray-200 py-12 lg:px-12">  
  <div class="w-full bg-white lg:w-1/4 lg:shadow lg:rounded lg:py-6 lg:px-6">  
      
    <div class="mt-6 pb-6 px-6 lg:px-0 lg:pb-0">  
      <div class="font-semibold text-green-500 text-lg">  
        Accountancy, M.S.  
      </div>  
      <div>  
        Advance in your current position or prepare for a career transition with graduate courses focused on such topics as  
      </div>  
      <a href="#" class="w-full text-center mt-4 bg-green-500 text-white py-2 px-4 rounded inline-block hover:bg-green-700">  
        Learn More  
      </a>  
    </div>  
  </div>  
</body>
```

YOU NEED SEPARATION OF CONCERNS!

“Separation of concerns’ is a straw man”

- Adam Wathan, Tailwind creator

CSS Dependent on HTML

```
.hero {  
  background-image: url('image.jpg');  
  background-size: cover;  
  min-height: 700px;  
  font-family: sans;  
}  
  
.hero__title {  
  font-size: 48px;  
  font-weight: bold;  
  color: #fff;  
  font-family: serif;  
  text-shadow: 5px 5px 5px rgba(0,0,0,.4),  
              10px 10px 10px rgba(0,0,0,.5);  
}  
  
.hero__subtitle {  
  font-size: 24px;  
  color: #edeeee;  
  text-transform: uppercase;  
  text-shadow: 5px 5px 5px rgba(0,0,0,.4);  
}  
  
.hero__intro {  
  font-size: 16px;  
  color: #edeeee;  
  text-shadow: 5px 5px 5px rgba(0,0,0,.4);  
}
```

```
<div class="hero">  
  <h1 class="hero__title">Be Proud.</h1>  
  <p class="hero__subtitle">  
    Join the Sons and Daughters.  
  </p>  
  <p class="hero__intro">  
    A world-class education.  
    A welcoming community.  
    A tradition of success.  
  </p>  
</div>
```

HTML Dependent on CSS

```
.font-serif {  
    font-family: serif;  
}  
  
.font-sans {  
    font-family: sans;  
}  
  
.uppercase {  
    text-transform: uppercase;  
}  
  
.text-base {  
    font-size: 1rem;  
}  
  
.text-xl {  
    font-size: 1.5rem;  
}  
  
.text-3xl {  
    font-size: 3rem;  
}  
  
.font-bold {  
    font-weight: bold;  
}  
  
.text-white {  
    color: #ffffff;  
}  
  
.text-gray-100 {  
    color: #edeeee;  
}  
  
.text-shadow {  
    text-shadow: 5px 5px 5px rgba(0,0,0,.4);  
}  
  
.text-shadow-strong {  
    text-shadow: 5px 5px 5px rgba(0,0,0,.4),  
                10px 10px 10px rgba(0,0,0,.5);  
}
```

```
<div class="bg-cover">  
    <h1 class="text-3xl font-bold font-serif text-white text-shadow-strong">  
        Be Proud.  
    </h1>  
    <p class="text-xl text-gray-100 uppercase text-shadow">  
        Join the Sons and Daughters.  
    </p>  
    <p class="text-gray-100 text-shadow">  
        A world-class education.  
        A welcoming community.  
        A tradition of success.  
    </p>  
</div>
```

**Do you want easily
restyle your HTML?**

**Do you want easily reuse
your CSS?**

IT'S UGLY AND BLOATS MY HTML!

```
.link-bar .top-bar-section li:not(.has-form) a:not(.button) {  
    line-height: 55px;  
}
```

```
.top-bar-section .has-dropdown .dropdown li.has-dropdown > a::after {  
    top: .75rem;  
}
```

```
@media only screen and (min-width: 641px) {  
    .top-bar li:not(.has-form) a:not(.button), .top-bar-section li.active:not(.has-form) a:not(.button) {  
        line-height: 45px;  
    }  
}
```

```
.footer-area, .footer-area a, .footer-area i, .textwidget, .textwidget li a {  
    color: #252729;  
}
```

HOW DO YOU MAINTAIN IT?

```
<div class="bg-cover">  
  <h1 class="text-3xl font-bold font-serif text-white text-shadow-strong">  
    Be Proud.  
  </h1>  
  <p class="text-xl text-gray-100 uppercase text-shadow">  
    Join the Sons and Daughters.  
  </p>  
  <p class="text-gray-100 text-shadow">  
    A world-class education.  
    A welcoming community.  
    A tradition of success.  
  </p>  
</div>
```

CMS Partials/Components

```
/*
Template Name: Right Sidebar
*/
get_header();
```

```
get_template_part('template-parts/hero/hero');
```

```
/*
Template Name: Full Width
*/
get_header();
```

```
get_template_part('template-parts/hero/hero');
```

```
/*
Template Name: Left Sidebar
*/
get_header();
```

```
get_template_part('template-parts/hero/hero');
```

Extract CSS Components

```
.btn {  
  @apply font-sans text-base py-2 px-4 uppercase tracking-wide inline-block no-underline font-semibold border-2 border-transparent text-center rounded;  
}  
  
.btn--green {  
  @apply bg-green text-white antialiased;  
}  
  
.btn--white {  
  @apply bg-white text-green;  
}
```

**That's great and all,
but how did you build
your own CSS
framework?**

```
'green-dark': '#029F3B',
'green': '#00B140',
'green-bright': '#08cd4f',
gray: {
  100: '#edeeee',
  200: '#cbcece',
  300: '#a9adad',
  400: '#868c8c',
  500: '#535c5c',
  600: '#3a4040',
  700: '#313737',
  800: '#212424',
  900: '#131716',
},
```

```
fontFamily: {
  'sans': ['Open Sans', 'Helvetica Neue', 'Helvetica', 'Arial', 'sans-serif'],
  'serif': ['Sentinel A', 'Sentinel B', 'Bookman Old Style Regular', 'serif'],
},
```

```
fontSize: {
  '7xl': '5rem',
  '9xl': '7rem',
  'massive': '10rem',
},
```



Colors

There are several approved colors for use in online site designs that allow newly created content to remain consistent with the overall Marshall University branding. Marshall University Green (referred to here as "green") should always stand front and center in visual communications. To accent and support our primary green, use black, white and/or these shades of gray.



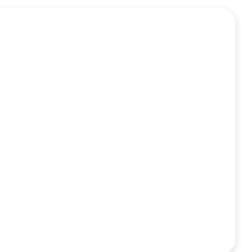
GREEN
#00B140



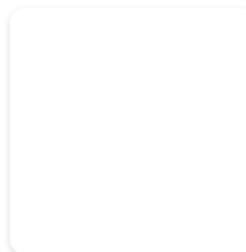
GREEN-BRIGHT
#08CD4F



GREEN-DARK
#029F3B



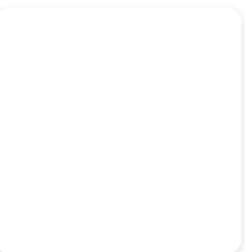
TRANSPARENT
TRANSPARENT



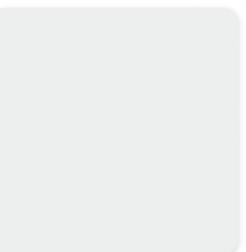
INHERIT
INHERIT



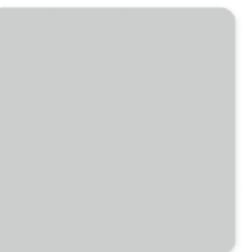
BLACK
#131716



WHITE
#FFFFFF



GRAY-100
#EDEEEE



GRAY-200
#CBCECE



GRAY-300
#A9ADAD



GRAY-400
#868C8C



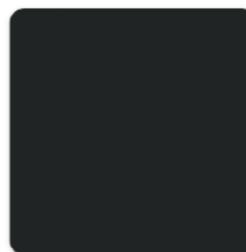
GRAY-500
#535C5C



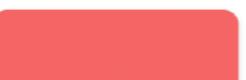
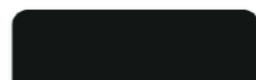
GRAY-600
#3A4040



GRAY-700
#313737



GRAY-800
#212424



Typography

text-xs

Marshall, gracious Alma Mater, we thy name revere;

text-sm

Marshall, gracious Alma Mater, we thy name revere;

text-base

Marshall, gracious Alma Mater, we thy name revere;

text-lg

Marshall, gracious Alma Mater, we thy name revere;

text-xl

Marshall, gracious Alma Mater, we thy name revere;

text-2xl



BE PROUD.

JOIN THE SONS & DAUGHTERS OF MARSHALL.

A world-class education. A welcoming community. A tradition of success.

[APPLY NOW](#)[LEARN MORE](#)

What do you want to study?



GET TO KNOW MARSHALL



Questions?



Thomas “Kernel Panic” Fuchs

@thomasfuchs



Follow



Two CSS properties walk into a bar.

A barstool in a completely different bar falls over.

9:10 AM - 28 Jul 2014

3,114 Retweets 3,112 Likes



53

3.1K

3.1K