

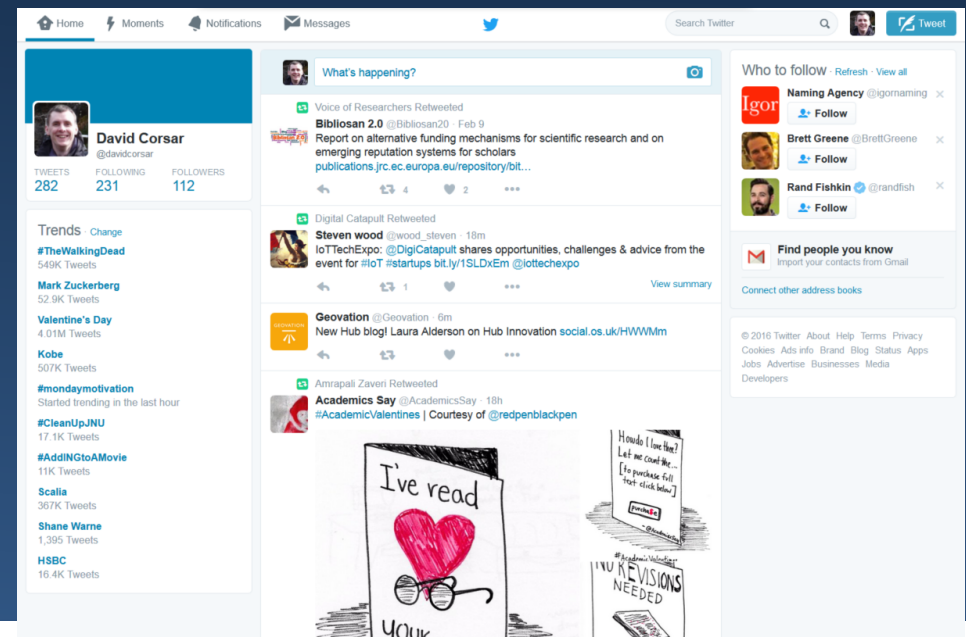
Web Technology

Practical HTML & CSS


Okay, let's make a website with Divs

- We'll pick a popular website and try and replicate some of it in HTML and CSS.
- Which website?

Twitter



Home Moments Notifications Messages Search Twitter



David Corsar
@davidcorsar

TWEETS 282 FOLLOWING 231 FOLLOWERS 112

Trends · Change

#TheWalkingDead
549K Tweets

Mark Zuckerberg
52.9K Tweets

Valentine's Day
4.01M Tweets

Kobe
507K Tweets

#mondaymotivation
Started trending in the last hour

#CleanUpJNU
17.1K Tweets

#AddingtoAMovie
11K Tweets

Scalia
367K Tweets

Shane Warne
1,395 Tweets

HSBC
16.4K Tweets

What's happening?

Voice of Researchers Retweeted

Bibliosan 2.0 @Bibliosan20 · Feb 9
Report on alternative funding mechanisms for scientific research and on emerging reputation systems for scholars
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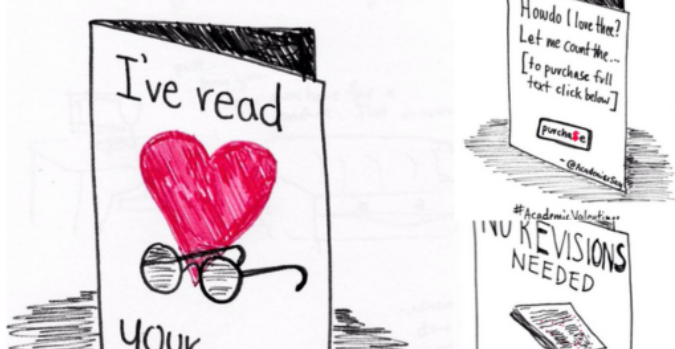
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[#AcademicValentines](https://twitter.com/academicvalentines) | Courtesy of @redpenblackpen



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Rand Fishkin @randfish
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Grid System

- “A typographic grid is a two-dimensional structure made up of a series of intersecting vertical and horizontal axes used to structure content. The grid serves as a framework on which a designer can organize text and images in a rational, easy to absorb manner.”

Grid System



Bootstrap Getting started CSS Components JavaScript Customize Themes Expo Blog



Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.

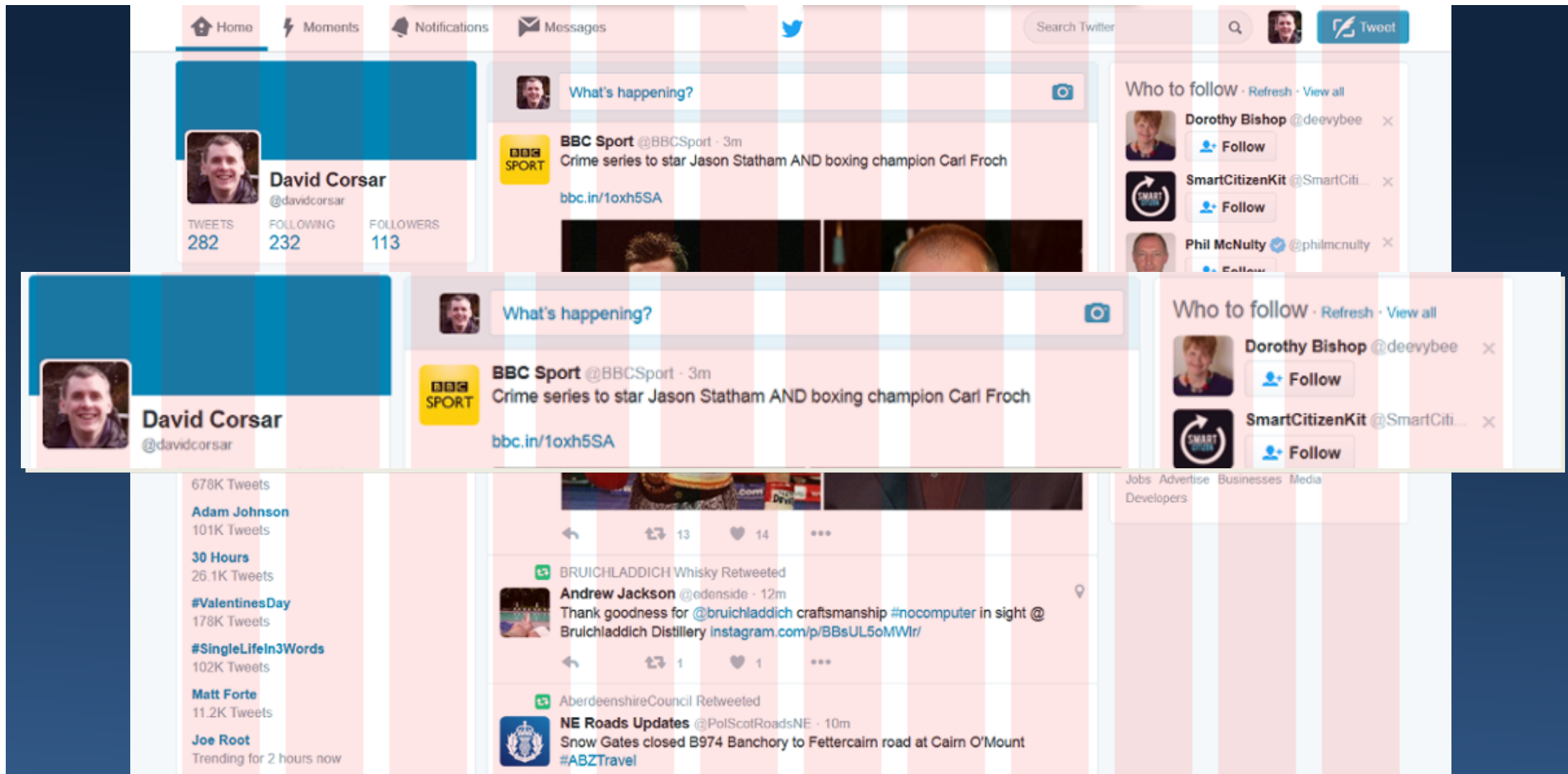
Download Bootstrap

Currently v3.3.6

Designed for everyone, everywhere.

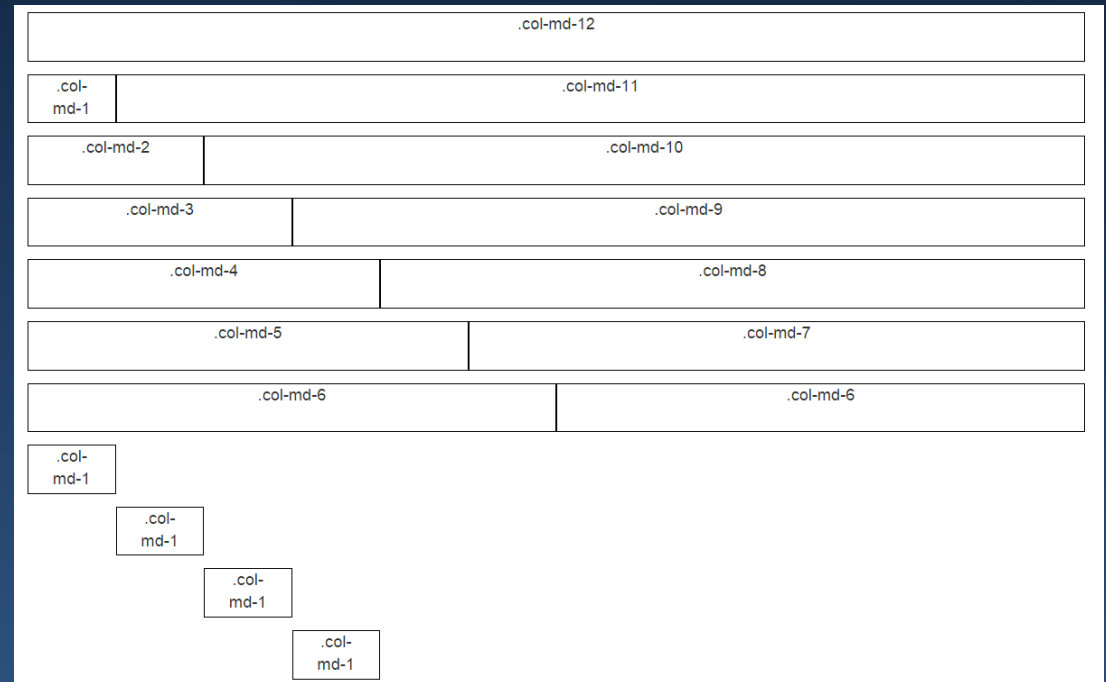
Bootstrap makes front-end web development faster and easier. It's made for folks of all skill levels, devices of all shapes, and projects of all sizes.

www.getbootstrap.com



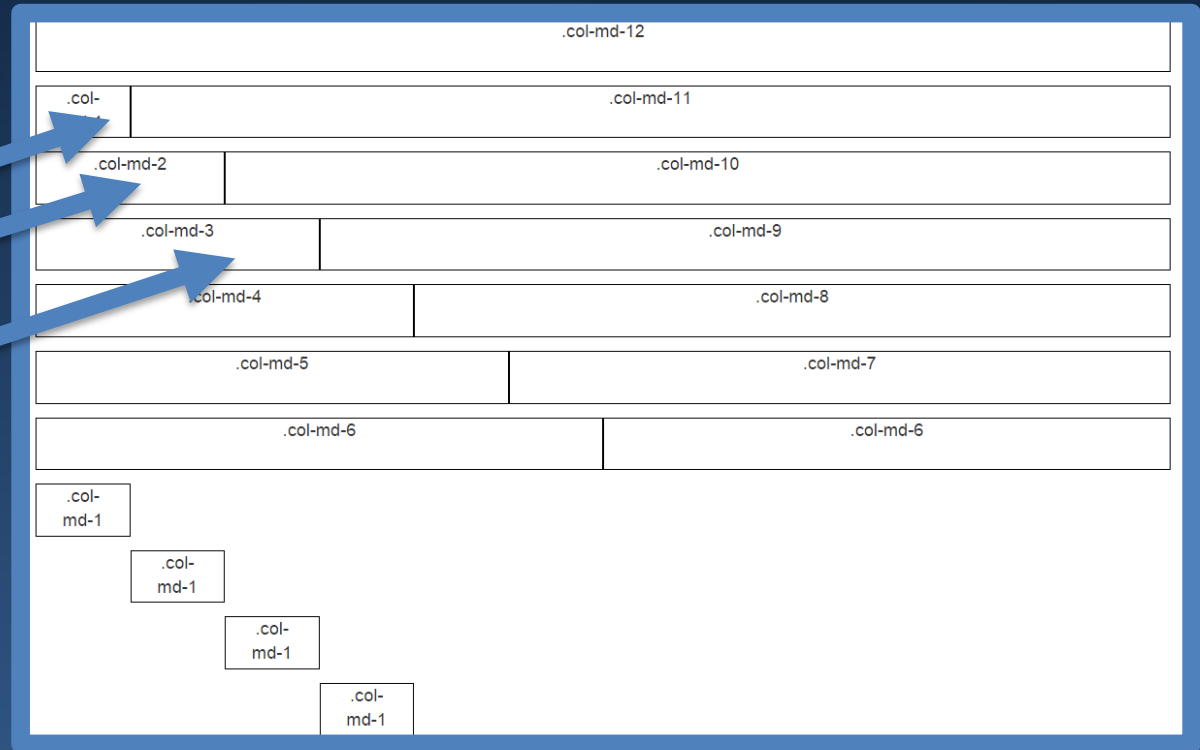
Bootstrap Responsive Grid System

- CSS 12 column layout
- Various sizes for extra small, small medium, and large resolutions
- CSS classes for 12 column container and elements spanning 1-12 columns



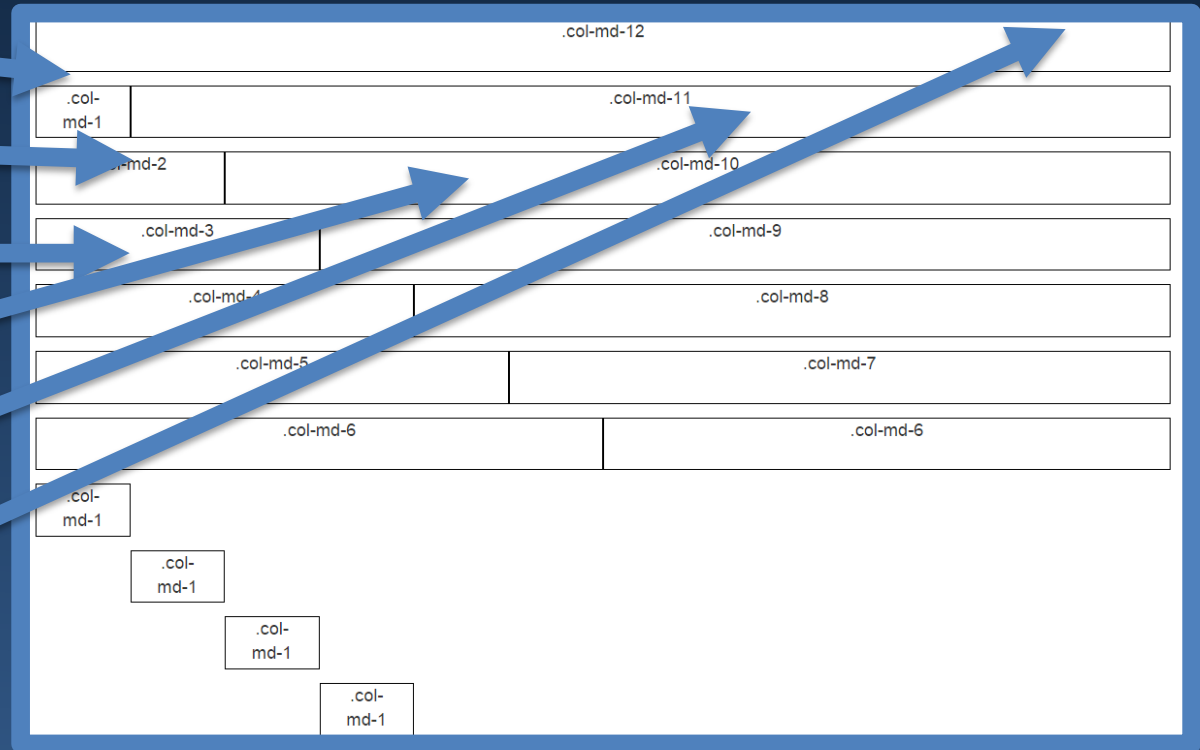
Extracts

```
.container {  
  width: 970px;  
  margin-left: auto;  
  margin-right: auto;  
}  
.col-md-1,  
.col-md-2, ...  
, .col-md-3 {  
  position: relative;  
  float: left;  
  padding-left: 15px;  
  padding-right: 15px;  
}
```



960.gs 12 Column

```
.col-md-1 {  
  width: 8.3333%; }  
.col-md-2 {  
  width: 16.6667%; }  
.col-md-3 {  
  width: 25%; }  
  
.col-md-10 {  
  width: 83.3333%; }  
.col-md-11 {  
  width: 91.6667%; }  
.col-md-12 {  
  width: 100%; }
```



Enough already...

... lets get started

Let's create our pages

Index.html



style.css



A new index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <!-- The above 3 meta tags *must* come first in the head; any other head content must come *after* these
tags -->
    <title>Twitter</title>

    <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
      <script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
      <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
    <![endif]-->
  </head>
  <body>
  </body>
</html>
```

Import bootstrap

```
<!DOCTYPE html>
<html lang="en">
  <head>
    ...
    <!-- Bootstrap -->
    <link href="css/bootstrap.min.css" rel="stylesheet">

    ...
  </head>
  <body>

    <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
    <!-- Include all compiled plugins (below), or include individual files as needed -->
    <script src="js/bootstrap.min.js"></script>

  </body>
</html>
```

A new style.css

```
body {  
    background-color: #f5f8fa;  
}
```

The navigation bar



```
<nav class="navbar navbar-default">  
  <div class="container">  
  
    </div>  
</nav>
```


The navigation bar



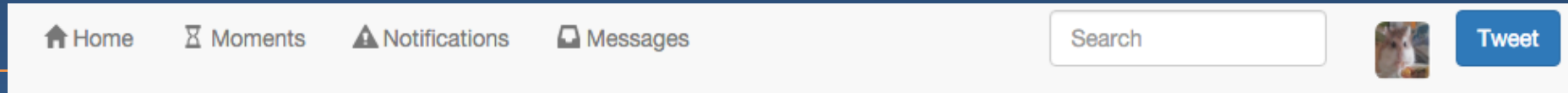
```
<nav class="navbar navbar-default">
  <div class="container">
    <ul class="nav navbar-nav navbar-left">
      <li><a href="#"><span class="glyphicon glyphicon-home" aria-
hidden="true"></span> Home</a></li>
      <li><a href="#"><span class="glyphicon glyphicon-hourglass" aria-
hidden="true"></span> Moments</a></li>
      <li><a href="#"><span class="glyphicon glyphicon-alert" aria-
hidden="true"></span> Notifications</a></li>
      <li><a href="#"><span class="glyphicon glyphicon-inbox" aria-
hidden="true"></span> Messages</a></li>
    </ul>
```



The navigation bar



```
<div class="navbar-right">
  <form class="nav navbar-nav navbar-form" role="search">
    <div class="form-group">
      <input type="text" class="form-control" placeholder="Search">
    </div>
  </form>
  <ul class="nav navbar-nav">
    <li><a href="#"></a></li>
    <li><button class="btn btn-default navbar-btn btn-primary">Tweet</button></li>
  </ul>
</div>
</div>
</nav>
```



Home Moments Notifications Messages Search Twitter

David Corsar
@davidcorsar

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Content Structure

```
<div class="container">  
  
</div>
```

```
.container {                               bootstrap.css  
  width: 970px;  
  margin-left: auto;  
  margin-right: auto;  
}
```

Content Structure

```
<div class="container">
  <div class="row"
    <div class="col-md-3">
      Test 1
    </div>
    <div class="col-md-6">
      Test 2
    </div>
    <div class="col-md-3">
      Test 3
    </div>
  </div>
</div>
```

```
.col-md-6 {
  left: 50%;
}
.col-md-3 {
  left: 25%;
}
```

bootstrap



Test 1

Test 2

Test 3

Content Structure

```
<div class="container">
  <div class="row">
    <div class="col-md-3">
      <div class="content-box">Tweeting Person
    </div>
    <div class="content-box">Trends</div>
  </div>
  <div class="col-md-6">
    <div class="content-box">Tweets</div>
  </div>
  <div class="col-md-3">
    <div class="content-box">Recommendations
  </div>
</div>
</div>
```

```
.contentBox {
  background-color: #ffffff;
  margin-bottom 10px;
  border-radius: 10px;
}
```

styles.css

 Home  Moments  Notifications  Messages

Search



Tweet

Tweeting Person



Tweets


Recommendations

Trends



computing@aberdeen

Home Moments Notifications Messages Search Twitter   Tweet



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@davidcorsar

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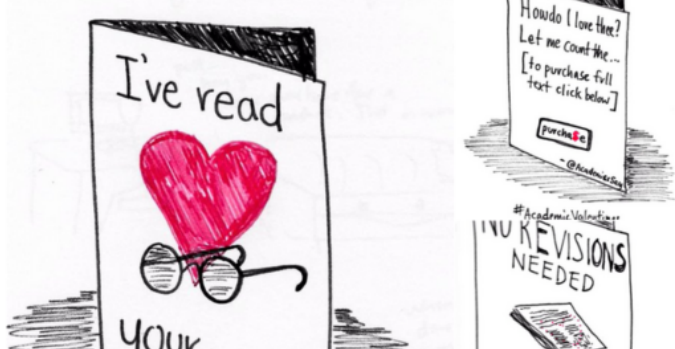
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The What's Happening

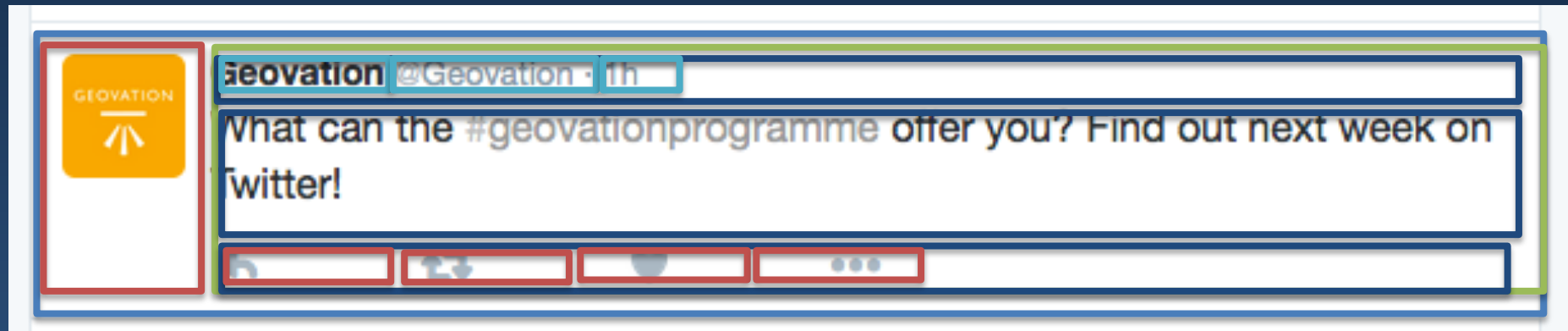
```
<div class="whats-happening">
  <div class="row">
    <div class="col-md-2">
      
    </div>
    <div class="col-md-10">
      <form class="whats-happening-form">
        <input type="text"
          class="form-control"
          placeholder="What's happening?">
        </form>
      </div>
    </div></div>
```

```
.whats-happening {                                styles.css
  background-color: #e5f2f7;
  padding-top: 10px;
  padding-bottom: 10px;
  border-top-left-radius: 10px;
  border-top-right-radius: 10px;
}

.whats-happening-form {
  padding-right: 10px;
}
```



The tweets



Tweet Content

```
<div class="tweet">  
  <div class="row">
```

```
.tweet {  
  background-color: #ffffff;  
  border-top: 1px solid #a19999;  
  padding-top: 10px;  
  padding-right: 10px;} styles.css
```

Tweet Content

```
<div class="tweet">
  <div class="row">
    <div class="col-md-2">
      
    </div>
```

```
.tweet {
  background-color: #ffffff;
  border-top: 1px solid #a19999;
  padding-top: 10px;
  padding-right: 10px;}
styles.css
```

Tweet Content

```
<div class="tweet">
  <div class="row">
    <div class="col-md-2">
      
    </div>
    <div class="col-md-10">
      <div class="tweet-row">
```

```
.tweet {
  background-color: #ffffff;
  border-top: 1px solid #a19999;
  padding-top: 10px;
  padding-right: 10px;}
.tweet-row {
  width: 100%;
  position: relative;
  float: left;}
```

styles.css

Tweet Content

```
<div class="tweet">
  <div class="row">
    <div class="col-md-2">
      
    </div>
    <div class="col-md-10">
      <div class="tweet-row">
        <div class="tweet-username"><p>Hamster News</p>
        </div>
```

```
.tweet {
  background-color: #ffffff;
  border-top: 1px solid #a19999;
  padding-top: 10px;
  padding-right: 10px;}
.tweet-row {
  width: 100%;
  position: relative;
  float: left;}
.tweet-username{
  font-weight: bold;}
```

styles.css

Tweet Content

```
<div class="tweet">
  <div class="row">
    <div class="col-md-2">
      
    </div>
    <div class="col-md-10">
      <div class="tweet-row">
        <div class="tweet-username"><p>Hamster News</p>
        </div>
        <div class="tweet-usertag grey-text">
          @hamsternews</div>
        <div class="tweet-age grey-text">1d</div>
      </div>
    </div>
  </div>
```

```
.tweet {
  background-color: #ffffff;
  border-top: 1px solid #a19999;
  padding-top: 10px;
  padding-right: 10px;}
.tweet-row {
  width: 100%;
  position: relative;
  float: left;}
.tweet-username{
  font-weight: bold;}
.tweet-username, .tweet-usertag, .tweet-
age {
  position: relative;
  float: left;
  margin-right: 5px;}
.grey-text {color: #a19999;}
```

styles.css

Tweet Content

```
<div class="tweet">
  <div class="row">
    <div class="col-md-2">
      
    </div>
    <div class="col-md-10">
      <div class="tweet-row">
        <div class="tweet-username"><p>Hamster News</p>
        </div>
        <div class="tweet-usertag grey-text">
          @hamsternews</div>
        <div class="tweet-age grey-text">1d</div>
        </div>
        <div>
          <p>Hamsters are nocturnal, which means they like to
keep you up all night when they are running around on their
wheel making noise!!</p>
        </div>
      </div>
    </div>
  </div>
```

```
.tweet {
  background-color: #ffffff;
  border-top: 1px solid #a19999;
  padding-top: 10px;
  padding-right: 10px;}
.tweet-row {
  width: 100%;
  position: relative;
  float: left;}
.tweet-username{
  font-weight: bold;}
.tweet-username, .tweet-usertag, .tweet-
age {
  position: relative;
  float: left;
  margin-right: 5px;}
.grey-text {color: #a19999;}
```

styles.css

Tweet Content continued

```
<div class="row">
  <div class="col-md-2">
    <span class="glyphicon glyphicon-menu-left" aria-
hidden="true"></span>
  </div>
  <div class="col-md-2">
    <span class="glyphicon glyphicon-share-alt" aria-
hidden="true"></span>
  </div>
  <div class="col-md-2">
    <span class="glyphicon glyphicon-heart" aria-
hidden="true"></span>
  </div>
  <div class="col-md-2">
    <span class="glyphicon glyphicon-option-horizontal"
aria-hidden="true"></span>
  </div>
</div>
```

```
.tweet {
background-color: #ffffff;
border-top: 1px solid #a19999;
padding-top: 10px;
padding-right: 10px;}
.tweet-row {
width: 100%;
position: relative;
float: left;}
.tweet-username{
font-weight: bold;}
.tweet-username, .tweet-usertag, .tweet-
age {
position: relative;
float: left;
margin-right: 5px;}
.grey-text {color: #a19999;}
```

styles.css

Tweet Content continued

```
<div class="row">
  <div class="col-md-2">
    <span class="glyphicon glyphicon-menu-left" aria-
hidden="true"></span>
  </div>
  <div class="col-md-2">
    <span class="glyphicon glyphicon-share-alt" aria-
hidden="true"></span>
  </div>
  <div class="col-md-2">
    <span class="glyphicon glyphicon-heart" aria-
hidden="true"></span>
  </div>
  <div class="col-md-2">
    <span class="glyphicon glyphicon-option-horizontal"
aria-hidden="true"></span>
  </div>
</div> <!-- end Tweet content column -->
</div> <!-- end row -->
</div> <!-- end Tweet -->
```

```
.tweet {
background-color: #ffffff;
border-top: 1px solid #a19999;
padding-top: 10px;
padding-right: 10px;}
.tweet-row {
width: 100%;
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float: left;}
.tweet-username{
font-weight: bold;}
.tweet-username, .tweet-usertag, .tweet-
age {
position: relative;
float: left;
margin-right: 5px;}
.grey-text {color: #a19999;}
```

styles.css

Tweets

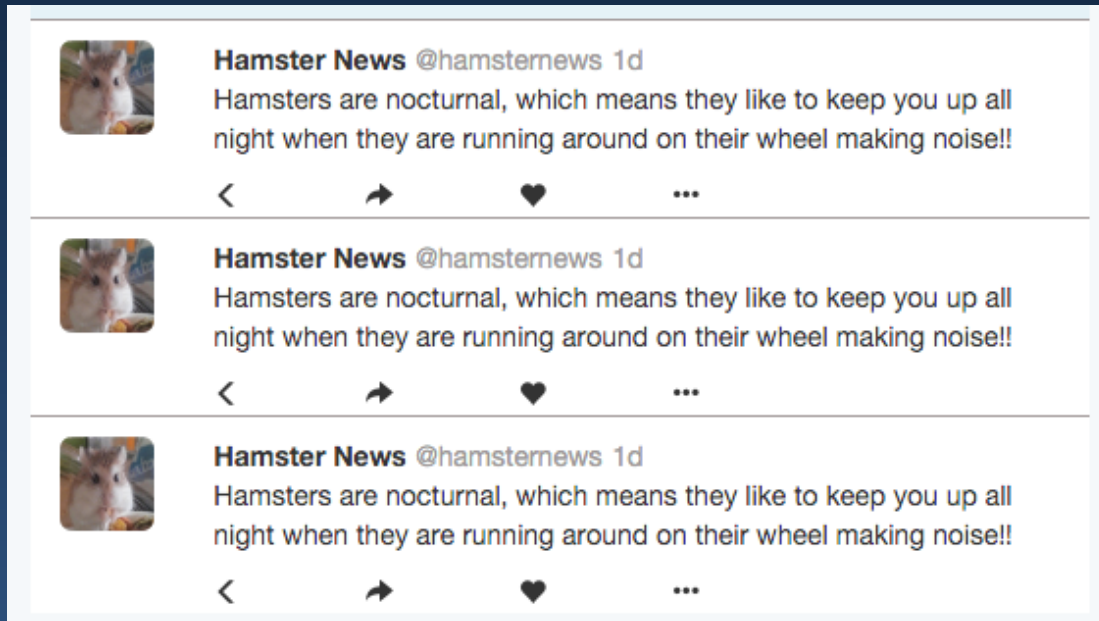


Hamster News @hamsternews 1d


Hamsters are nocturnal, which means they like to keep you up all night when they are running around on their wheel making noise!!



Multiple Tweets



Home Moments Notifications Messages Search Twitter Tweet



David Corsar
@davidcorsar

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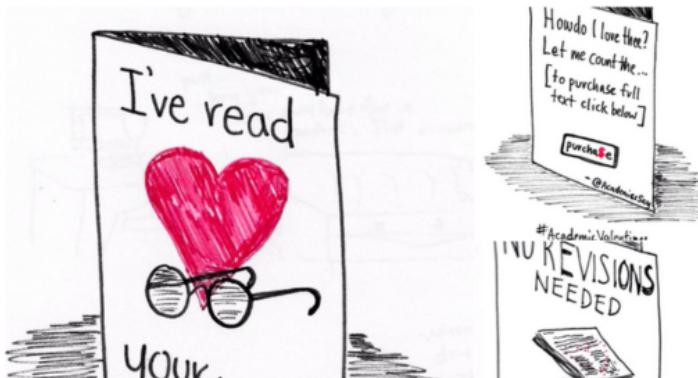
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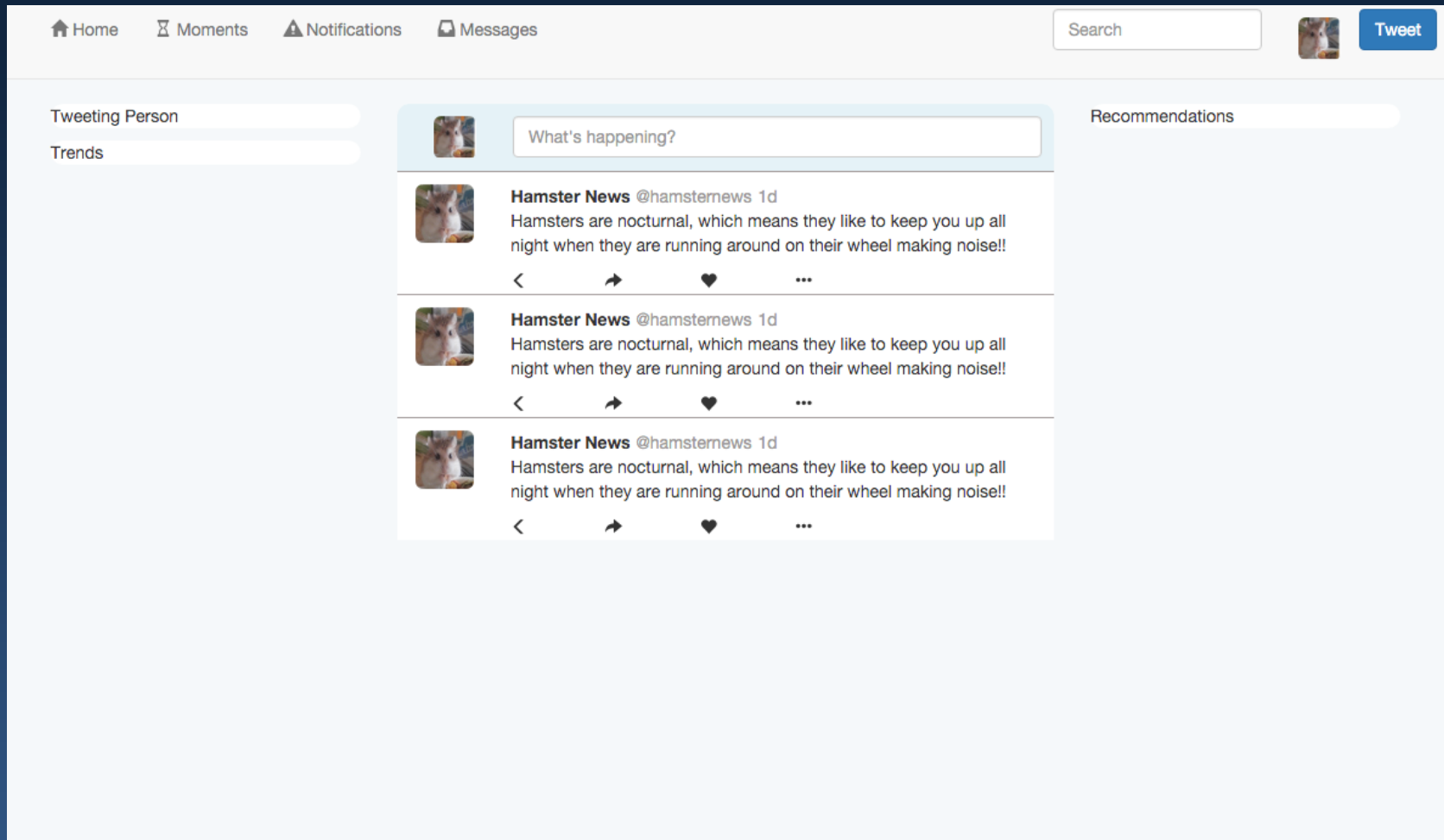
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Summary

- Building a website
 - bootstrap
- Thursday
 - More Javascript
- Practical
 - Forms