

# Bootstrap & Other CSS Frameworks

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# Overview

Aim to:

- Discuss CSS frameworks
- Look at CSS framework Bootstrap
- Features of Bootstrap
- Answer questions



# CSS Frameworks

Library of pre-defined styles setting standard font, colour and layout.

Often include basic templates to work from.

# Advantages

- Work out-of-the-box
- Very useful for rapid prototyping
- Usually cross-browser compatible
- Maintained by others
- Can be modified to look more unique
- Makes layout extremely easy
- Usually very well documented



# Disadvantages

- Websites can look very similar
- Relying on others for maintenance, features and updates
- May be limited with layout and colours
- May be difficult to integrate your customisations

# Bootstrap

- A CSS framework example

Twitter Bootstrap (often called Bootstrap) is a very popular CSS framework popularised by the Twitter website.

It is maintained by GitHub developers.



# Contents

bootstrap/

├─ css/

| ├─ bootstrap.css

| ├─ bootstrap.min.css

| ├─ bootstrap-theme.css

| └─ bootstrap-theme.min.css

├─ js/

| ├─ bootstrap.js

| └─ bootstrap.min.js

(we will look at the JS in the  
future - requires jQuery)

└─ fonts/

├─ glyphs-halflings-regular.eot

├─ glyphs-halflings-regular.svg

├─ glyphs-halflings-regular.ttf

└─ glyphs-halflings-regular.woff



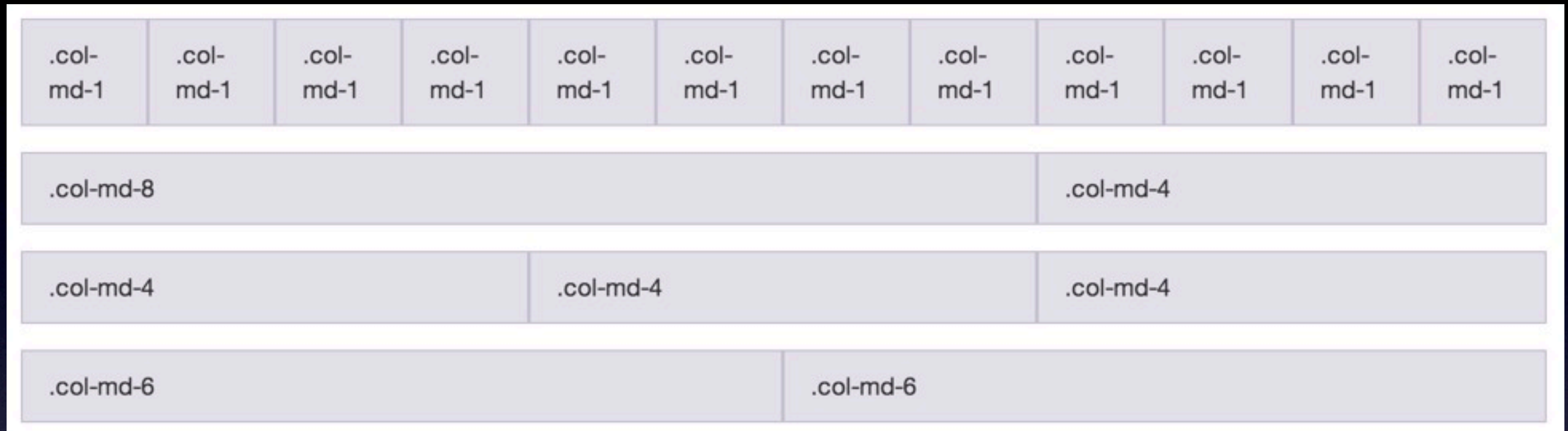
# Features

Look at different features of using the Bootstrap CSS framework

There are many and are all documented on the Bootstrap site



# Layout



```
<div class="row">  
  <div class="col-md-8">Fat column</div>  
  <div class="col-md-4">Thinner column</div>  
</div>
```

(Plus 15px gutter width)

<http://getbootstrap.com/css/#grid>





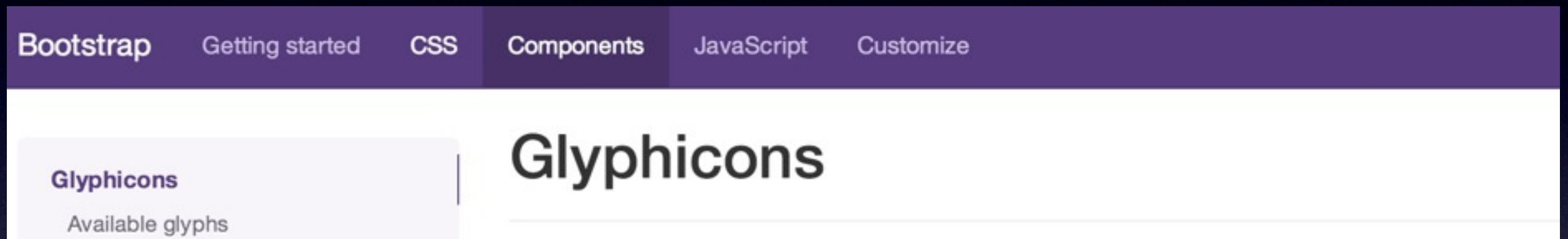
# Menu



```
<ul class="nav nav-tabs">
  <li class="active"><a href="#">Home</a></li>
  <li><a href="#">Profile</a></li>
  <li><a href="#">Messages</a></li>
</ul>
```

# Menu

## “Classic” Bootstrap fixed top menu



```
<header class="navbar navbar-inverse navbar-fixed-top bs-docs-nav"
  role="banner">
  <div class="container">
    <div class="navbar-header">
      ...
      <a href=".." class="navbar-brand">Bootstrap</a>
    </div>
    <nav class="collapse navbar-collapse bs-navbar-collapse"
      role="navigation">
      <ul class="nav navbar-nav">
        ...
      </ul>
    </nav>
  </div>
</header>
```



# Icons

Most CSS frameworks come with an icon set.

Bootstrap uses Glyphicons, a vector image set. In Bootstrap 3.0 they are now in the form of a font rather than sprite.

# Icons

```
<span class="glyphicon glyphicon-home"></span>
```

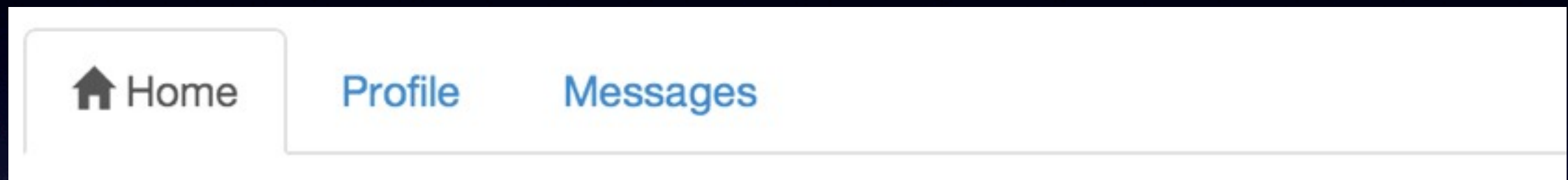


The icon is a font and is inserted using CSS

```
.glyphicon {  
  position: relative;  
  top: 1px;  
  display: inline-block;  
  font-family: 'Glyphicons Halflings';  
  -webkit-font-smoothing: antialiased;  
  font-style: normal;  
  font-weight: normal;  
  line-height: 1;  
}  
  
.glyphicon-home:before {  
  content: "\e021";  
}
```



# Menu with Icons



```
<ul class="nav nav-tabs">
  <li class="active"><a href="#"><span class="glyphicon glyphicon-home"></span> Home</a></li>
  <li><a href="#">Profile</a></li>
  <li><a href="#">Messages</a></li>
</ul>
```

# Icons

Because the icons are a font, we can apply any font attributes allowing us to change:

- Font size
- Colour
- Line spacing
- etc



# Other Features

Have a look at a few features of Bootstrap which may be useful

# Tables

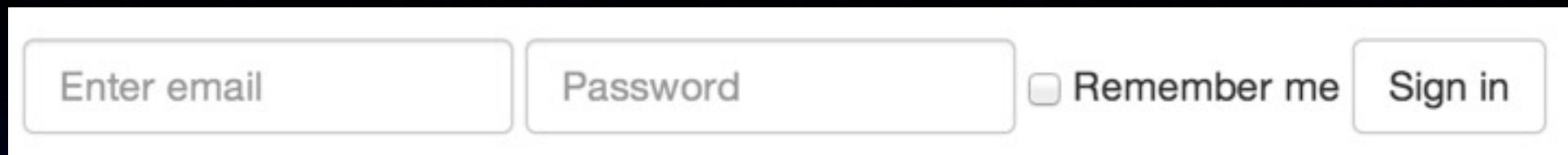
#	First Name	Last Name	Username
1	Mark	Otto	@mdo
	Mark	Otto	@TwBootstrap
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

Tables with complex layouts.

Also include different border styles, highlighted row when hovering, coloured rows and more.

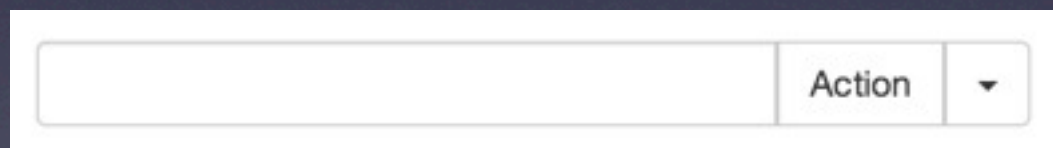


# Forms & Inputs

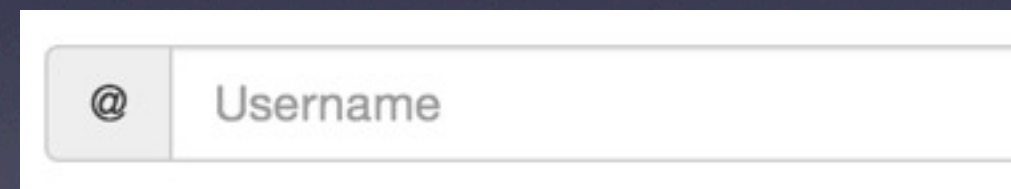


A horizontal login form with a white background. It contains four elements: a text input field with the placeholder text "Enter email", a text input field with the placeholder text "Password", a checkbox followed by the text "Remember me", and a "Sign in" button.

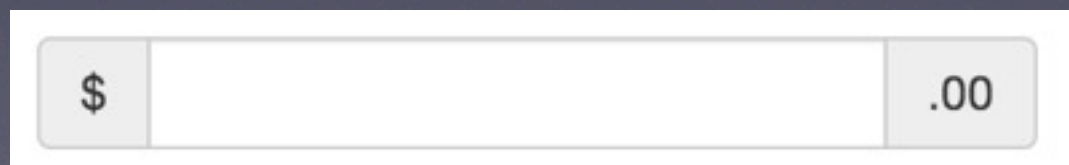
Forms with clear layouts and a prefix or suffix information or buttons.



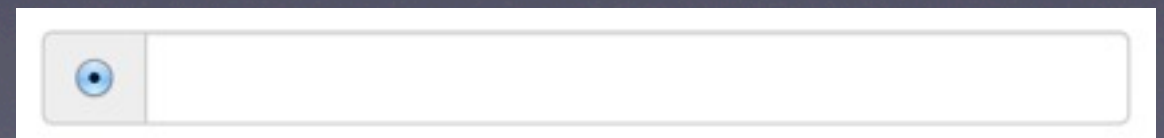
A horizontal form with a white background. It consists of a text input field followed by a button labeled "Action" with a downward-pointing arrow icon.



A horizontal form with a white background. It features a prefix box containing an "@" symbol, followed by a text input field with the placeholder text "Username".

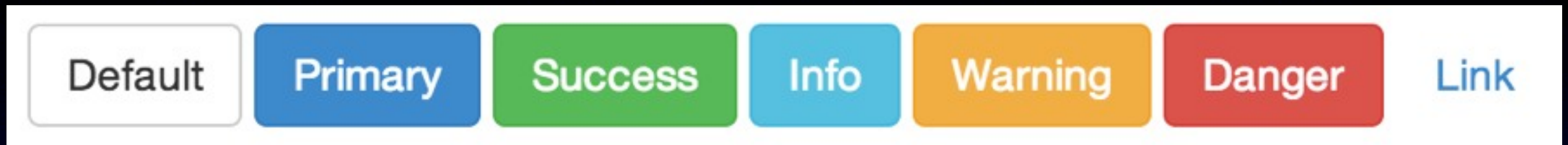


A horizontal form with a white background. It includes a prefix box with a "\$" symbol, a text input field, and a suffix box with ".00".

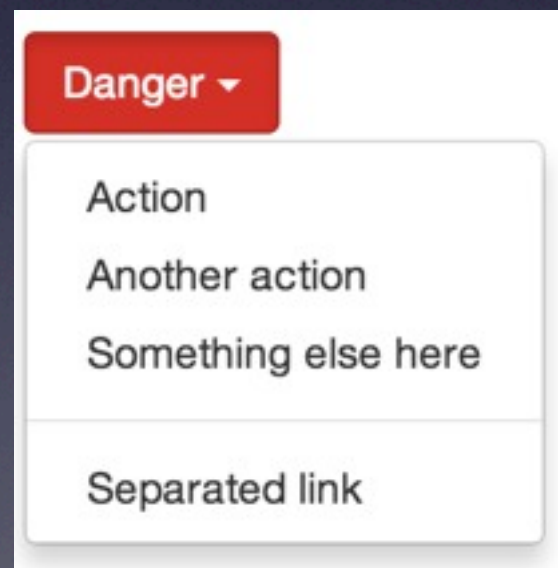


A horizontal form with a white background. It starts with a prefix box containing a blue eye icon, followed by a text input field.

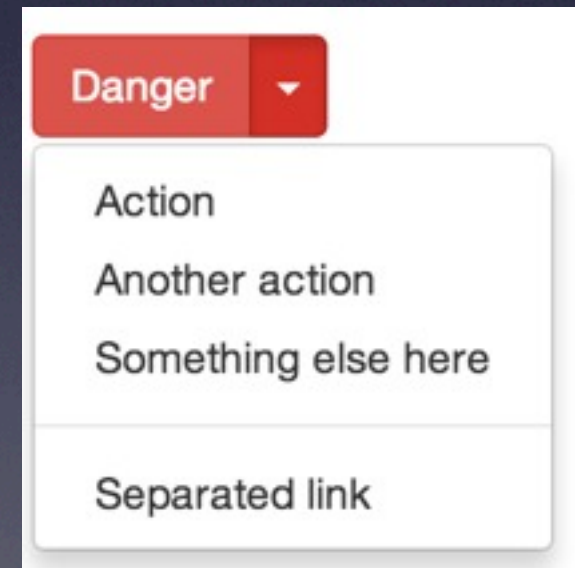
# Buttons



Clean consistent buttons that work in all major browsers. They are all based off of the default which allows for easy customisation.



Button with menu



Button group with menu



# Labels & Alerts

Default

Primary

Success

Info

Warning

Danger

Highlight information and indicate meaning using colour. Uses the same naming convention as the buttons for colours.

**Well done!** You successfully read this important alert message.

**Heads up!** This alert needs your attention, but it's not super important.

**Warning!** Best check yo self, you're not looking too good.

**Oh snap!** Change a few things up and try submitting again.

# Get Bootstrap

You can get all of this and the full documentation at <http://getbootstrap.com>



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