LAB 02 Bootstrap & jQuery

CS3240

Overview

- **15 minutes** Introduction on Bootstrap and jQuery
- 1 hour Lab practice
- 20 minutes Tips and tricks

Bootstrap

Bootstrap

- Free front-end framework for faster and easier web development
- Includes HTML, CSS based design templates, and JavaScript plugins
- Ability to easily create responsive designs

Why Bootstrap?

- Relatively easy to use (basic knowledge about HTML and CSS)
- Responsive CSS adjusts to phones, tablets, and desktops
- Mobile-first approach
- Compatible with all modern browsers
 - (Chrome, Firefox, Internet Explorer, Safari, and Opera)

Websites that used Bootstrap



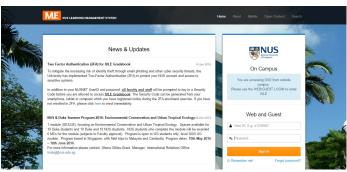
https://mintvine.com/



http://izee.ro/market/mywall/one/



http://charleshaggas.com/



https://ivle.nus.edu.sg/default.aspx

jQuery

much easier to use JavaScript on your website

jQuery

- "Write less, do more" JavaScript library
- Easier to use JavaScript on your website
- Simplifies a lot of the complicated things from JavaScript
- Plugins for almost any task out there
- jQuery will run exactly the same in all major browsers

jQuery VS Javascript

// find all paragraphs with the class "summary" in the article with ID "first"

jQuery VS Javascript

// add more contents to a div with the id "container"

jQuery

```
$("#container").append("more
content");
```

Javascript

```
document.getElementById("container").
innerHTML += "more content";
```

jQuery VS Javascript

// add more contents to a div with the id "container"

```
jQuery
```

```
var $el = $('.bye');
$('body').css('background', '#ccc');
```

Javascript

References

http://www.w3schools.com/jquery/

http://www.w3schools.com/bootstrap/default.asp

Tips and Tricks

Content Delivery Network (CDN)

<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"></script>

Benefits

- File is most likely cached into user's browser, faster load time
- Served from the server closest to them.
- Reduces bandwidth for your own server

Problems

- New request to access the resource on another server
- File may not be cached
- Internet connection is required

Bootstrap CDN

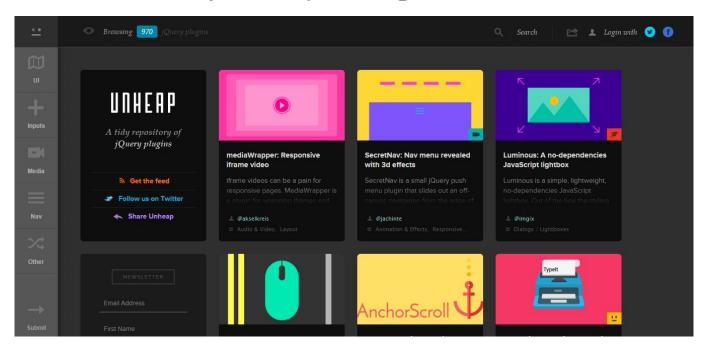
The folks over at MaxCDN graciously provide CDN support for Bootstrap's CSS and JavaScript. Just use these Bootstrap CDN links.

Bootstrap Templates



http://startbootstrap.com/

UNHEAP - jQuery Plugins



http://www.unheap.com/

Colors

1. Contrast



2. Limit your colour choices (theme)

- 3. More white ("breathing") space
- 4. Does it fit?



Web Colour Data



http://webcolourdata.com/

Adobe Color CC



https://color.adobe.com/

Font(s) Selection

Best-Practice Font Tips for Effective Website Design and More Readable Content
 http://www.mequoda.com/articles/subscription_websites/best-practice-font-tips-for-effective-website-design/

• 10 Golden Rules You Should Live By When Combining Fonts: Tips From a Designer https://designschool.canva.com/blog/combining-fonts-10-must-know-tips-from-a-designer/

Web Design Tips: 7 Common Web Typography Mistakes
 http://www.howdesign.com/design-creativity/fonts-typography/web-design-tips-7-common-web-typography-mistakes/