IAB207 – Rapid Web Application Development 2019 S2

Week 3 Bootstrap Essentials

Lecturer: Srikanth "Sri" Nair

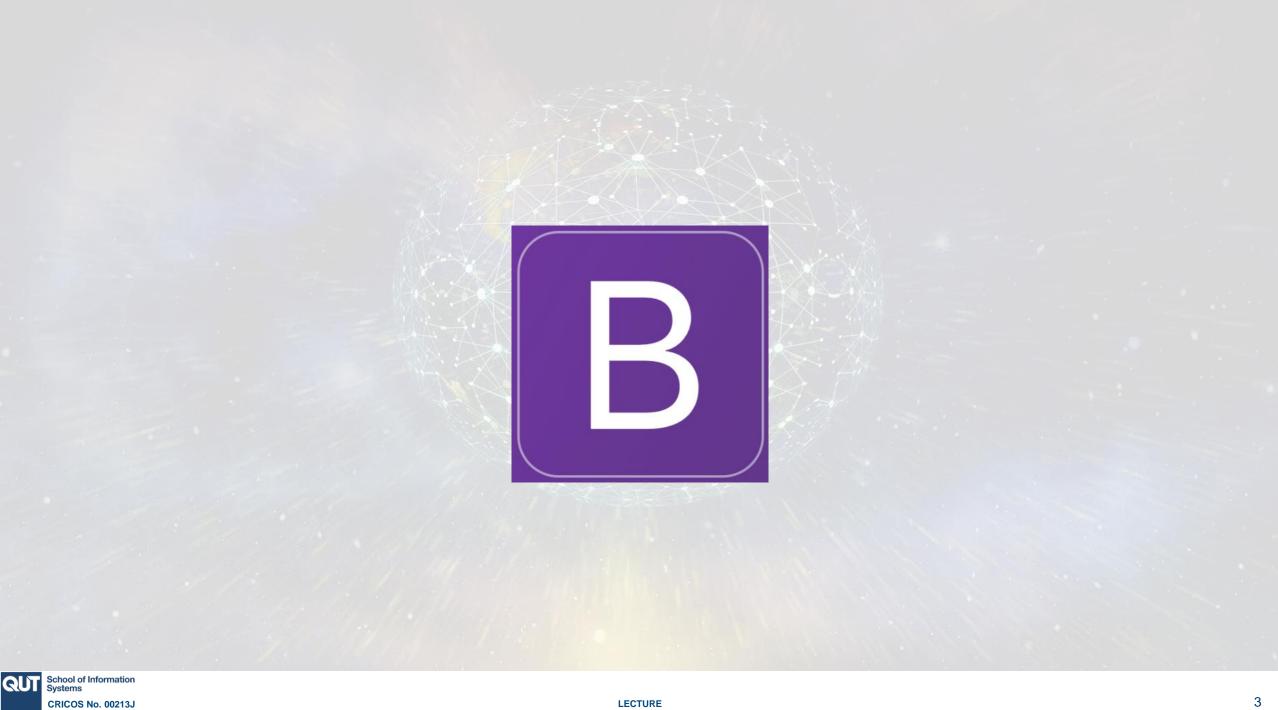




Agenda

- Bootstrap
 - Introduction
 - Basic Page Structure
 - HTML Tags
 - Content Models
 - Formatting Content
 - Structuring Content
 - Forms





Bootstrap – Introduction



- "world's most popular front-end component library"
- Brainchild of Mark Otto (designer) and Jacob Thornton (developer) at Twitter
 - Original release: August 19, 2011
- Current release: v4.3.1
 - V4: Rewrite based on move to Sass and CSS flexbox
 - Supported by all major browsers
- Maintained on GitHub (open source)
- "Opinionated"
- https://getbootstrap.com/
- Competition: Foundation (https://foundation.zurb.com/) (not covered in this unit)

Implementing Bootstrap



- Must be used for assessment
- BootstrapCDN (in this unit)
 - Link to CSS (1 file)
 - Link to JavaScript (3 files)
 - You may not need this for your use case.
- Self-hosted
 - Download files on to your webserver.



BOOTSTRAP DEMO (DEMO.HTML)





Web page from last week without custom CSS and Bootstrap added.

BOOTSTRAP DEMO (INDEX7.HTML AND INDEX8.HTML)



Containers



- Most basic layout element
- Required when using default grid system
- <div class= "container" | "container-fluid"></div>
- Grid system (rows, 12 invisible columns)
- Don't forget CSS flexbox

https://getbootstrap.com/docs/4.3/layout/overview/#containers





- .row
 - .col- (extra small is default)
 - .col-sm-
 - .col-md-
 - .col-lg-
- Columns should add to 12, even in nested columns.

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

https://getbootstrap.com/docs/4.3/layout/grid/



BOOTSTRAP DEMO @ (INDEX9.HTML)



Question



Are the DIV tags necessary in the locations section?

Not really. Classes can be added to <article> tag!

- 11





- Responsive navigation header
- Fluid by default
- Accessibility: <nav> OR <div role ="navigation">
- Requires .navbar with .navbar-expand{-sm|-md|-lg|-xl}
- Play with styles to get the results you want

https://getbootstrap.com/docs/4.3/components/navbar/







- Spans the viewport
- Ideal for header or displaying main message
- Create unique results by mixing components and styles

https://getbootstrap.com/docs/4.3/components/jumbotron/



BOOTSTRAP DEMO @ (INDEX10.HTML)



Content | Cards



- Grids for container and structuring content
- Cards: flexible and extensible content container

Forms

https://getbootstrap.com/docs/4.3/components/card/



BOOTSTRAP DEMO @ (INDEX11.HTML)



Miscellaneous

LECTURE



- Alerts
 - https://getbootstrap.com/docs/4.3/components/alerts/
- Badge
 - https://getbootstrap.com/docs/4.3/components/badge/
- Carousal
 - https://getbootstrap.com/docs/4.3/components/carousel/
- Modal
 - https://getbootstrap.com/docs/4.3/components/modal/



BOOTSTRAP DEMO @ (INDEX12.HTML)



- 18

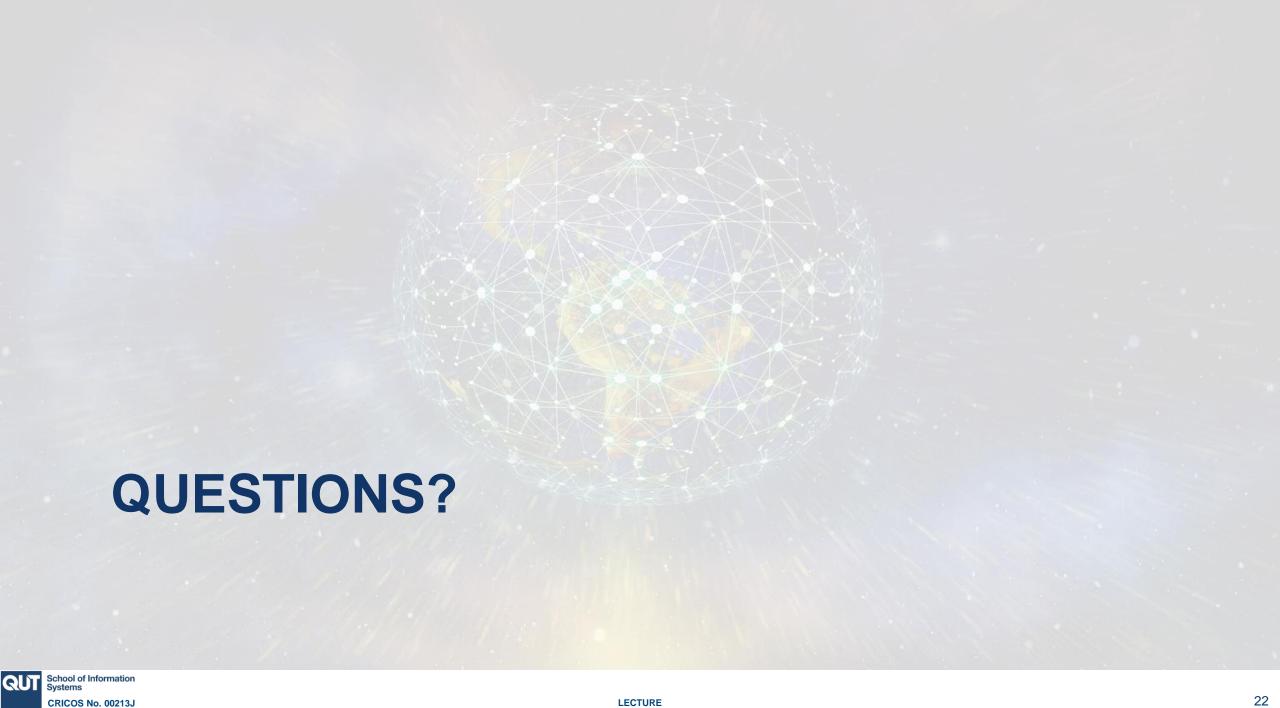
Useful Information

- Spacing
 - https://getbootstrap.com/docs/4.0/utilities/spacing/
- Buttons
 - https://getbootstrap.com/docs/4.0/components/buttons/
- Typography
 - https://getbootstrap.com/docs/4.0/content/typography/
- Tables
 - https://getbootstrap.com/docs/4.0/content/tables/
- Forms
 - https://getbootstrap.com/docs/4.0/components/forms/

Useful Information

- Lynda
 - Bootstrap 4 Essential Training (Ray Villalobos)
- Bootlint (check mistakes)
 - https://github.com/twbs/bootlint
- Cheat Sheet (unofficial)
 - https://hackerthemes.com/bootstrap-cheatsheet/





THANK YOU FOR BEING HERE ©