BOOTSTRAP

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GETTING INTO WATTER....

https://plnkr.co/edit/?p=catalogue

https://jsfiddle.net

HTML5 Basics

- https://www.youtube.com/watch?v=NzzGt7EmXVw
- https://www.youtube.com/watch?v=2R8 Yt8UjBo&list=PLqGj3iMvMa4KlJn1pMYPVV3eYzxJlWcON&index=2
- https://www.youtube.com/watch?v=vpqm2fPEzbI&index=3&list=PLqGj3iMvMa4KlJn1pMYPVV3eYzxJlWcON
- https://www.youtube.com/watch?v=1SLBvCqR0g&index=4&list=PLqGj3iMvMa4KlJn1pMYPVV3eYzxJlWcON
- <u>https://www.youtube.com/watch?v=u-3aQpZD3_Q&list=PLqGj3iMvMa4KlJn1pMYPVV3eYzxJlWcON&index=5</u>
- https://www.youtube.com/watch?v=gb8SzwkM6Lo&list=PLqGj3iMvMa4KlJn1pMYPVV3eYzxJlWcON&index=6
- https://www.youtube.com/watch?v=J25mYgiLGSI&list=PLqGj3iMvMa4KlJnlpMYPVV3eYzxJlWcON&index=7

GETTING INTO WATTER....

- CSS Basics
- https://www.youtube.com/watch?v=s7ONvIgOWdM&list=PLqGj3iMvMa4IOmy04kDxh hqODM qoeeCy
- Sass vs Less
- https://www.youtube.com/watch?v=lJclQekSfSM
- Bourbon...
- https://www.youtube.com/watch?v=8ItNE_DX6Cc



INDEX

- What is Bootstrapp?
- What is Less?
- How we can use the grid?
- Working on cases

Keet in mind

http://paletton.com

http://paletton.com/#uid=1000u0kllllaFw0g0qFqFg0w0aFhttp://dasplankton.de/ContrastA/

http://www.creativebloq.com/typography/what-is-typography-123652

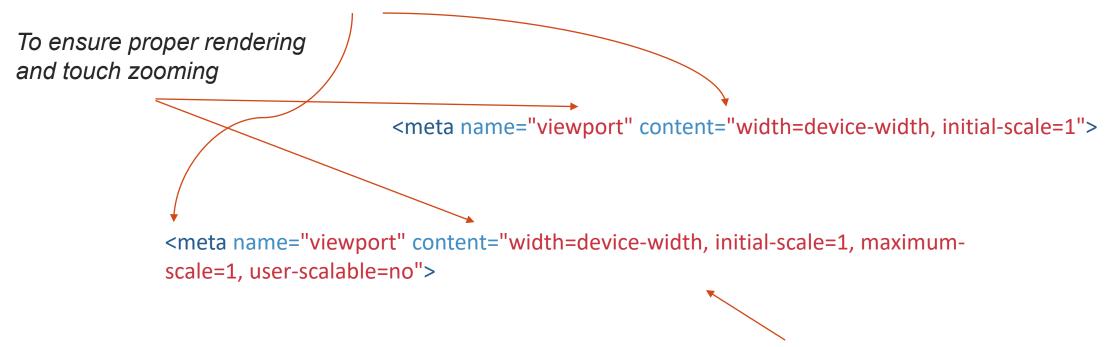


WHAT IS BOOTSTRAP?

http://getbootstrap.com

```
<!DOCTYPE html>
<html lang="en">
...
</html>
```

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



You can disable zooming capabilities on mobile devices



TYPOGRAPHY AND LINKS

- Bootstrap sets basic global display, typography, and link styles.
- Specifically, we:
 - Set background-color: #fff; on the body
 - Use the @font-family-base, @font-size-base, and @line-height-base attributes as our typographic base
 - Set the global link color via @link-color and apply link underlines only on :hover
 - These styles can be found within scaffolding.less



CONTAINERS

For improved cross-browser rendering, we use Normalize.css

Bootstrap requires a containing element to wrap site contents and house our grid system. You may choose one of two containers to use in your projects. Note that, due to padding and more, neither container is nestable.

Use .container for a responsive fixed width container.

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

Use .container-fluid for a full width container, spanning the entire width of your viewport.

```
<div class="container-fluid">
...
</div>
```



BOOTSTRAP 4 GRID SYSTEM

GRID SYSTEM

Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases. It includes predefined classes for easy layout options, as well as powerful mixins for generating more semantic layouts.

Grid system

	Extra small devices Phones (<768px)	Small devices tablet (>=768px)	Medium devices Desktops (>=992px)	Large devices Desktop (>=1200px)		
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoint				
Max container width	None(auto)	750pz	970pz	1170px		
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-		
# of columns	12					
Gutter width	30px (15px on each side of column)					
Max column width	Auto	60px	78px	95px		
Offsets/Column ordering	N/A	Web Design Technology	Yes	10		

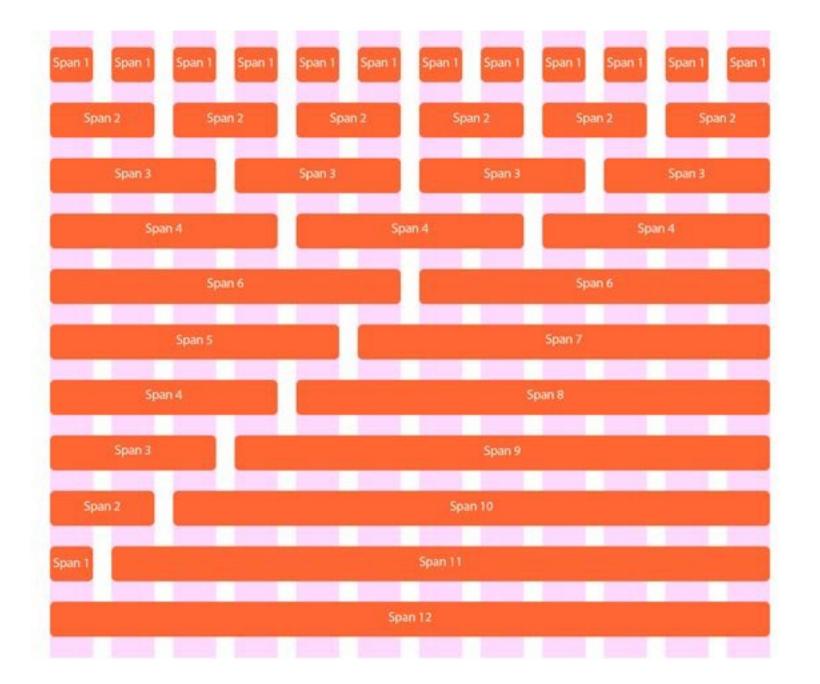


THE EXTRA SMALL TO SMALL RANGE

```
<div class="row">
<div class="col-md-1">.col-md-1</div>
</div>
<div class="row">
<div class="col-md-8">.col-md-8</div>
<div class="col-md-4">.col-md-4</div>
</div>
<div class="row">
<div class="col-md-4">.col-md-4</div>
<div class="col-md-4">.col-md-4</div>
<div class="col-md-4">.col-md-4</div>
</div>
<div class="row">
<div class="col-md-6">.col-md-6</div>
<div class="col-md-6">.col-md-6</div>
</div>
```

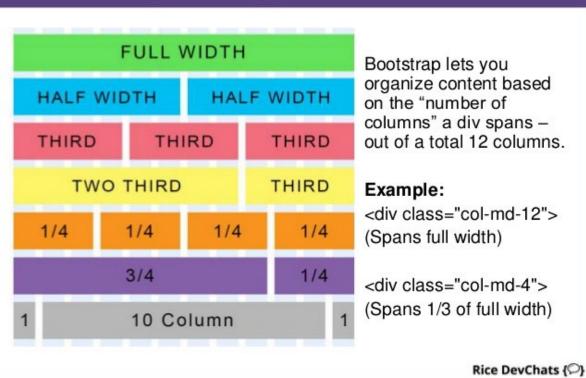
.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1	.col- md-1
.col-md-8						.col-md-4					
.col-md-	.col-md-4 .col-md-4					.col-md-	4				
.col-md-6				.col-md-	6						







Bootstrap Grid System



col-xs-*

- · Extra small devices
- Mobile devices

col-sm-*

- Small devices
- tablets

col-md-*

- · medium devices
- · laptops, desktops

col-lg-*

extra large desktops devices



BOOTSTRAP 3

DEVICE

CLASS

Extra Small less than 768px	col-xs-
Small 768px and up	col-sm-
Medium 992px and up	col-md-
Large 1200px and up	col-lg-

BOOTSTRAP 4

DEVICE

CLASS

col-md-

Extra Small (less than 34em) col-xsSmall (34em and up) col-sm
Medium

48em and up

Large col-lg-

Extra Large col-xl-



URL'S GRID RESOURCES

- http://www.responsivegridsystem.com/calculator/
- http://gridcalculator.dk/#/960/12/20/10
- http://jplist.com/layoutexamples/div-layout
- http://jqueryhouse.com/jquery-grid-plugins/
- http://grid.guide



WHAT IS LESS?



• Less is a CSS pre-processor, meaning that it extends the CSS language, adding features that allow *variables, mixins, functions* and many other techniques that allow you to make CSS that is more *maintainable, themeable and extendable*.





```
color: #fe33ac;
                                               border-color: #fdcdea;
COMPILES TO
                                              .box div {
                                               -webkit-box-shadow: 0 0 5px rgba(0, 0, 0, 0.3);
                                               box-shadow: 0 0 5px rgba(0, 0, 0, 0.3);
@base: #f938ab;
.box-shadow(@style, @c) when (iscolor(@c)) {
 -webkit-box-shadow: @style @c;
 box-shadow:
                   @style @c;
.box-shadow(@style, @alpha: 50%) when (isnumber(@alpha)) {
 .box-shadow(@style, rgba(0, 0, 0, @alpha));
.box {
 color: saturate(@base, 5%);
 border-color: lighten(@base, 30%);
 \operatorname{div} \{ .\operatorname{box-shadow}(0\ 0\ 5\operatorname{px}, 30\%) \}
```

.box {



WHERE TO USE IT?



\$ lessc styles.less styles.css

\$ lessc --clean-css styles.less styles.min.css

\$ npm install -g less

<link rel="stylesheet/less" type="text/css" href="styles.less" />

Next, <u>download less.js and include it in a <script></script> tag in the <head> element of your page:</u>

<script src="less.js" type="text/javascript"></script>



BOOTSTRAP & LESS TUTORIALS

- https://www.tutorialspoint.com/bootstrap/bootstrap environment setup.htm
- https://www.codecademy.com/courses/web-beginner-en-yjvdd/0/1
- http://www.w3schools.com/bootstrap/
- http://www.tutorialspoint.com/less/

