

# Learn Bootstrap 4 FWD

1) Copy & paste starter template. → setup.

## 2) Grid System

5) .container

↳ .row

↳ col-xs-4

↳ Hello world

red  
grey  
blue

.grey {  
color: white;  
background-color: grey;  
}

red, green, blue.

6) .col-xs-12, col-md-1, red x 3

↳ take up 12 col  
at xs size

↳ take up 1 col  
at md size

+ col-md-12

+ col-lg-3

+ col-md-4

+ col-sm-6

+ col-xs-12



## 7) Varying Grid Sizes



col-md-4 col-lg-3

col-md-

col-md-8 col-lg-9

col-md-

## 8) Offsetting Columns



+ col-md-offset-4 (leave 4 spaces)



- 2 (leave 2 spaces)



+ col-md-offset-4

↳ apply on bigger size, but not smaller size.

To cancel it,

+ col-lg-offset-0

## 9) Multiple Rows

.row

## 10) Nesting Columns

.row > .col-xl-6 > .row > .col-xl-6 → spanning 3.

↳ rows > col-xl-4 →  $3 \times \frac{6}{2} = 1$

↳ col-xl-4 →  $3 \times \frac{4}{2} = 1$

↳ only apply to xl screen

## 11) Ordering Columns

↳ + col-sm-push-6 → push 6 col to the right.

col-sm-pull-4

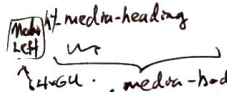
↳ affect longer, x smaller.

↳ to eliminate the effect, col-md-push-0

col-md-pull-0

## 12) Intro To media objects

- col-x1-12
- ↳ .media
  - ↳ a.media-left ← 64x64
  - ↳ img.media-object
  - ↳ .media-body
    - ↳ h4.media-heading
    - ↳ Awesome title
    - ↳ hr

eg 

## 14) Nesting media object

- media
  - ↳ .media-body
    - ↳ .media
      - ↳ .media-left
      - ↳ .media-body
      - ↳ .media



## 15) Media Object Alignment

- media
  - ↳ a.media-left → +media-middle - bottom
  - ↳ .media-body
- ↳ img.align-self - start/center/end

## 16) Buttons

- btn
- btn - primary, secondary, warning, link, danger, success

## 22) Input Groups

- input-group
  - ↳ `span input-group-addon #Addon!`
  - ↳ `<input form-control aria-describedby="Addon!"`

## 24) Jumbotron → a responsive div container, grey k border-radius

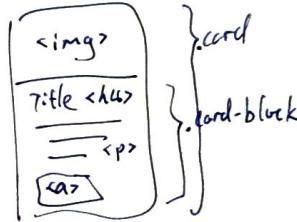
- jumbotron
  - ↳ `h1, display-3`
  - ↳ `p, lead`
  - ↳ `hr, my-md`
  - ↳ `p`
    - ↳ `p, lead`
    - ↳ `a, btn, btn-primary, btn-lg`

## 26) Label

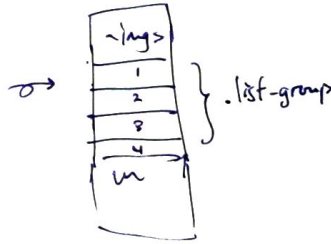
~~the~~ .label .label - \_\_\_\_\_  $\rightarrow$  default, primary, success, danger, info, warning  
 .label-pill

## 29) Cards : flexible & extensible content container

- card  $\rightarrow$  style="max-width: 319px" \*
- ↳ img .card-img-top
- ↳ .card-block
  - ↳ h4 .card-title \*
  - ↳ p .card-text  $\rightarrow$  \* random word generator online
  - ↳ a .btn btn-success



- ↳ ul .list-group list-group-flush
- ↳ li .list-group-item \*



## 32) Text Card Alignment

- text-center right


## 33) Card Header & Footer


- card-header
- card-footer
  - text-muted (eg. copyright)




~~card-title~~



34) Card Image Caps 

.card-img-\_\_ top bottom  


35) Card Image Overlay

.card-img-overlay 

36) Inverting Cards

.card card-inverse  $\rightarrow$  background-color: black;  
 $\rightarrow$  white text

37) Card background Variant

.card, card-\_\_ primary, success, info, warning, danger  
.card-inverse

38) Card Groups

.card-group

$\rightarrow$  .card

$\rightarrow$  .card

$\rightarrow$  .card



39) Card Decks : Cards ~~that~~ with equal width & height

.card-deck-wrapper

$\rightarrow$  .card-deck

$\rightarrow$  .card x3



40) Card Columns

.card-columns

$\rightarrow$  card \* n

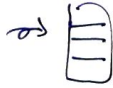
$\rightarrow$  max-width: 319px



## 42) Base Nav

ul > nav

└ li.nav-item } x n  
└ a.nav-link



\* .disabled →

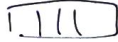
## 43) Nav Tab & Pills

ul.nav.nav-tabs

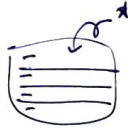


└ li.nav-item } x n  
└ a.nav-link } active

ul.nav.nav-pills \*



ul.nav-pills.nav.nav-stacked



## 44) Nav Dropdowns

li.nav-item.dropdown

└ a.nav-link.dropdown-toggle \* data-toggle="dropdown" role="button" aria-expanded="false" \*

└ .dropdown-menu

└ a.dropdown-item x 3

└ .dropdown-divider

└ a.dropdown-item



## 45) Nav Tab Panes

.tab-content

└ role="tabpanel" .tab-pane

data-toggle="tab"

href="#< id of .tabpanel >"

fade

id="1" > 1

## 47) NavBar

nav.navbar.navbar-light.bg-faded

└ a.navbar-brand > Company Logo </

└ ul.nav.navbar-nav

└ li.nav-item active → only 1

└ a.nav-link > Home <span>sr-only</span> (current </ >

└ form.form-inline.navbar-form.pull-right

└ input.form-control type="text" placeholder=" "

└ button.btn.btn-success-outline type="submit"

Logo Home Feature All Contact Us Search

#### 48) Navbar Color Schemes

- navbar - `light` or `dark`
  - ↓
  - bg-inverse (dark)
  - bg-primary (blue)

#### 49) Navbar Placement

- navbar-fixed-top  
↓  
bottom

#### 50) Navbar Collapsible Content

- collapse id="Nav1" ←
- \* nav . navbar, navbar-light . bg-faded
- ↳ button . navbar-toggle type="button" data-toggle="collapse" data-target="#Nav1" \*
- eg &#9776; → ≡
- ≡ ←

#### 51) Responsive Navbar

- nav . navbar . navbar-un
- ↳ collapse . navbar-togglerable-xs id="CollapseNavbar" ← screen size
- ↳ button . navbar-toggler . hidden-sm-up type="button" data-toggle="collapse" data-target="#CollapseNavbar" →
- eg &#9776;
- xs  
E

\* justify-content-center: Align items in the center

\* Best use of navbar → header navigation

## 52) Breadcrumb : Navigational hierarchy

ul.breadcrumb

↳ li > a > Home

↳ li > <a> Library

↳ li.active

↳ <a> Page I am On

6)

Home / Library / Page I am On

## 53) Pagination

nav

↳ ul.pagination

↳ li > a aria-label="Previous"

↳ span aria-hidden="true" > &laquo;

↳ span.sr-only > Previous

↳ li > a aria-label="Next"

↳ span aria-hidden="true" > &raquo;

↳ span > Next

6)

« 1 2 3 4 5 6 7 8 9 10 »

li.active

4) size : .pagination - 10, sm

## 54) Pager

nav

↳ ul.pager

↳ li

↳ a > Previous

↳ li

↳ a > Next

→

Previous

Next

nav

↳ ul.pager

↳ li.pager-prev

↳ li.pager-next

→

Previous

Next

.disabled

.active

→ li > a { } \* 10

## 55) Progress

progress.progress value="0" max="100" > 0%

progress.progress value="25" max="100" > 25%

color : .progress - success, info, warning, danger  
.progress-striped



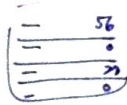
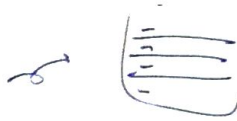
## 56) List Groups

ul .list-group

li .list-group-item x 4

li .list-group-item

span .label .label-default .label-pill .pull-right:se



## 57) Advanced List Groups

## 58) Modals

button type="button" .btn .btn-primary data-toggle="modal" data-target="#ModalName" aria-hidden="true" >

↳ Open Modal

.modal .fade id="ModalName" tabindex="-1" role="dialog" aria-labelledby="ModalNameLabel" aria-hidden="true" >

↳ .modal-dialog role="document" → .modal- → lg, sm

↳ .modal-content

↳ .modal-header

↳ button .close data-dismiss="modal" aria-label="Close"

↳ <span aria-hidden="true" > &times; ;

↳ <span class="sr-only" > Close

↳ h4 .modal-title id="ModalNameLabel" > Modal title

↳ .modal-body > ...

↳ .modal-footer

↳ button type="button" .btn .btn-secondary data-dismiss="modal" > Close modal </>  
↳ Set on



59) footips ... : Provide contextual info

```
<script src="tether.js"></script>
```

```
<script>
```

```
$(function()
```

```
{
```

```
$("#[data-toggle='tooltip']").tooltip();
```

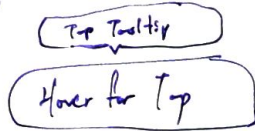
```
});
```

```
</script>
```

```
<button type="button" class="btn btn-primary" data-toggle="tooltip" data-placement="top" title="Top Tooltip">
```

↳ Hover for Top

↳



★  
="tooltip"

★

bottom,  
left,  
right  
★

/\* Bottom  
left  
Right \*/

60) Popovers

```
<script src="tether.js"></script>
```

```
<script>
```

```
$(function()
```

```
{
```

```
$("#[data-toggle='popover']").popover();
```

```
<button type="button" class="btn btn-secondary" data-container="body" data-toggle="popover" data-placement="top" data-content="Top">
```

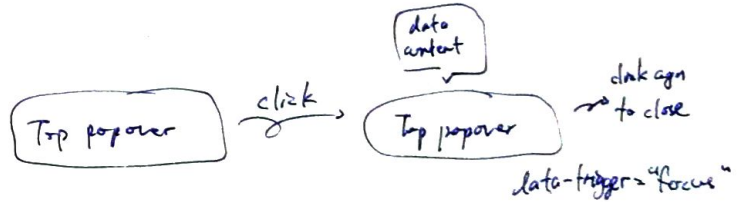
data-content="Top"

bottom, left, right

↳ Top popover

```
> $("#.popover-dismiss").popover({  
  trigger: "focus"
```

↳ click outside to disappear pop up.



dark again  
to close

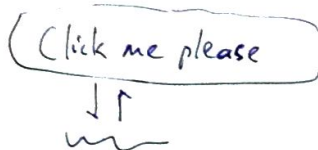
data-trigger = "focus"

bottom  
left  
right

## 61) Collapse

button . btn . btn-primary type="button" data-toggle="collapse" data-target="#collapseID" aria-expanded="false" aria-controls="collapseID"

↳ Click me please  
 .collapse id="collapseID"  
 ↳ me



## 62) Accordion Collapse

#Accordion role="tablist" aria-multiselectable="true"

↳ .panel .panel-default

↳ .panel-heading role="tab" id="HeadingOne"

↳ h4 .panel-title → .collapsed

↳ data-toggle="collapse" data-parent="#Accordion" href="#collapseOne" aria-expanded="true" aria-controls="collapseOne"

aria-controls="collapseOne" → Two

↳ Collapsible Group Item 1

↳ #collapseOne .panel-collapse .collapse.in role="tabpanel" aria-labelledby="HeadingOne" → Two

↳ me Two

Collapsible Group Item 1  
 click

click  
 (others close)

2

### 63) Carousel: Image Slider

```
# carousel-example-generic, carousel.slide data-ride="carousel"
```

```
  <ol .carousel-indicators
```

```
    <li data-target="#carousel-example-generic" data-slide-to="0" .active > 3 x 3
      0
      1
      2
```

```
  < .carousel-inner role="listbox"
```

```
    < .carousel-item .active
```

```
      <img src="" > x n
```

```
      < .carousel-caption >
        <h2> title
        <p> oh yeah
```

```
  <a .left.carousel-control href="#" role="button" data-slide="prev" > next
```

```
    <span .icon-prev aria-hidden="true"
```

```
    <span .sr-only > Previous.
```

```
      &#xA0;
      Next
```

