Learn Bootstrap 4 RWD

1) ↳ copy & paste starter template . ⟶ setup .

2) Grid System

5) . container
↳ . row
↳ . col -xs -4 } ×3
↳ Hello world

. red
. grey ⟶ . grey {
. . blue
color : white ;
background-color : grey ;
}

. red , . green , . blue .

6) . col -xs -12 . col -xl -2 . red ×3

   §   §
take up 12 col   take up 2 col
at xs size   at xl size
+ . col -xl -2 ⟶
+ . col - lg ⟶3

+ . col - md -4
+ . col -sm -6 ⟶
+ . col -xs -12 ⟶

7) Varying Grid Sizes

⟶ col -xl -4   col -lg -3   col -md -
↳ col -xl -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

6 × 6/12 = 3
↑

10) Nesting Columns

. row > . col -xl -6 > . row > . col -xl -6 ⟶ spanning 3 .
↳ > row > col -xl -4 ⟶ 3 × 4/12 = 1
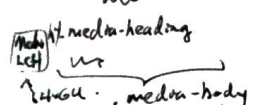§ col -xl -4 ⟶ 3 × 4/12 =1
↳ only apply to xl screen

11) Ordering Columns

↳ + col -sm -push -6 ⟶ push 6 col to the right .
col -sm . pull -4
↳ affect larger , × smaller . larger
↳ to eliminate the effect , col -md -push - 0
col - md -pull - 0

12) Intro To media objects

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

↳ ⎡Media⎤ h4.media-heading
  ⎣Left⎦ hr
         ↳Hr64 . media-body

14) Nesting media object

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

15) Media Object Alignment

- .media
  - ↳ a.media-left → + media-middle (top) - bottom
  - ↳ .media-body

↳ try .align-self - ____ start/center/end

16) Buttons

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

22) Input Groups

- input -group
  ↳ span .input -group-addon # Addon1
  ↳ <input .form -control aria-describedby = "Addon1"

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

- .jumbotron
  ↳ h1 . display - 3
  ↳ p . lead
  ↳ hr . my-md

  ↳ p
  ↳ p . lead
    ↳ a .btn .btn-primary . btn-lg

26) Label

   #.label .label - _____ ⟶ default, primary, success, danger, info, warning
   .label -pill

29) Cards : flexible & extensible content container
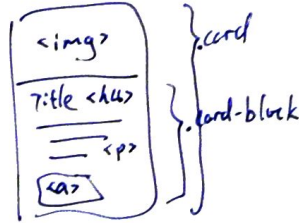
   .card ⟶ style="max-width: 319px" ★
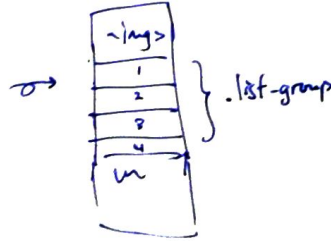   └ img .card-img-top
   └ .card-block
       └ h4 .card-title ★△
       └ p .card-text ⟶ ★ random word generator online
       └ a .btn btn-success

   └ ul .list-group list-group-flush
       └ li .list-group-item ×4

32) Text Card Alignment

   .text-center right

33) Card Header & Footer

   .card-header ⟶ card-title ★

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

34) Card Image Caps

.card-img-____   top . bottom

35) Card image Overlay

.card-img-overlay   `<img>`

36) Inverting Cards

.card card-inverse → background-color: black;
→ white text

37) Card background Variant

.card .card-____   primary; success, info, warning, danger
.card-inverse

38) Card Groups

.card-group   →
  ↳ .card
  ↳ .card
  ↳ .card

39) Card Decks : Cards with equal width & height

.card-deck-wrapper
  ↳ .card-deck
    ↳ .card ×3

40) Card Columns

.card-columns
  ↳ card * n
    ↳ max-width: 319px

42) Base Nav

```
ul > .nav
  └ li .nav-item  } × n        ⤳ 🔲
      └ a .nav-link

          ∗ .disabled → 🚫
```

43) Nav Tab & Pills

```
ul .nav .nav-tabs        ⤳  ⬚⬚⬚⬚___

  ( └ li .nav-item  } × n
  (    └ a .nav-link } active

ul . nav .nav-pills  ∗   ⬚⬚⬚⬚

ul . nav-pills . nav . nav-stacked
```
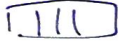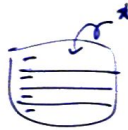
44) Nav Dropdowns

```
li . nav-item . dropdown

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

    └ . dropdown-menu
        └ a . dropdown-item × 3
           └ . dropdown-divider
        └ a . dropdown-item
```

45) Nav Tab Panes

```
. tab-content            role
  └ . role ="tabpanel" . tab-pane      . id="i" > l
       data-toggle ="tab"
       href =" < id of .tabpanel >"
```

47) NavBar

```
nav . navbar . navbar-light . bg-faded

  └ a . navbar-brand > Company Logo </

  └ ul . nav . navbar-nav

  ∧ × {  └ li . nav-item active      → only l
         └ a .nav-link > Home <span . sr-only>(current </ </

  └ form . form-inline . navbar-form . pull-right
       └ input . form-control type="text" placeholder =" "
       └ button . btn . btn-success-outline type="submit"
```

48) Navbar Color Schemes

. navbar - ___ . → light , dark
                              ↓
                        .bg-inverse (dark)
                        .bg-primary (blue)

if . justify-content-center : Align items in the
                                            center

★ Best use of navbar or header navigation

49) Navbar Placement

. navbar - fixed - top
                    bottom

50) Navbar Collapsible Content

. collapse   id ="Nav 1" ←

nav . navbar, navbar-light .bg-faded
  └ button . navbar-toggle type="button data-toggle= "collapse" data-target ="#Nav 1"
                                                                                  ★
        ⦃ ☰ ∞ ≡
        ≡ tr

51) Responsive Navbar

nav . navbar . navbar . um   screen size
                                      ↗
↑→ ⦿ ★ ⎧ . collapse . navbar - togglecable -xs id ="Collapse Navbar" ←
        | to um
        | "uis"
        └ button . navbar-toggler . hidden.sm -up type="button" data-toggle="collapse" data-target=" #Collapse Navbar">
            &#9776
                                      ⌞⌝xs
                                  (e, ☐

52) Breadcrumb : Navigational hierarchy

ul.breadcrumb
- li > a > Home
- li > <a> Library
- li.active
  - <a> Page I am On

Home / Library / Page I am On

53) Pagination

nav
- ul.pagination ————→ .disabled
  - li > a aria-label="Previous"
    - span aria-hidden="true" > «
    - <span .sr-only > Previous
  - li > a aria-label="Next"
    - span aria-hidden="true" > »
    - span " > Next

`[ « | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | >> ]`

li.active

size : .pagination - ⟶ lg, sm

.active
→ li > a {$} *10

54) Pager

nav
- ul.pager ⟶ (Previous) (Next)
  - li
    - a > Previous
  - li
    - a > Next

- - - - - - - - - - - - - - - -

nav
- ul.pager ⟶ (Previous)   [Next]
  - li.pager-prev
  - li.pager-next

.disabled

55) Progress

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

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

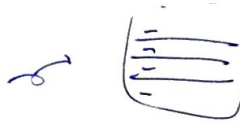color : .progress - ⟶ success, info, warning, danger
        .progress-stripped

56) List Groups

```
ul . list-group
  └ li . list-group-item × 4
```



```
li . list-group-item
  └ span . label . label-default . label-pill . pull-right ss
```


57) Advanced List Groups

~

58) Modals

```
button type="button" . btn . btn-primary data-toggle="modal" data-target=" #ModelName" aria-hidden="true" >
  └ Open Model

. modal . fade id="ModelName" tabindex="-1" role="dialog" aria-lablledby="ModelNameLabel" 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="Model Name Label" > Modal title
    └ . modal-body > un
    └ . modal-footer
      └ button type="button" . btn . btn-secondary data-dismiss="modal" > Close modal </
```


Open Modal → title

59) tooltips ... : Provide contextual info

```html
<script src="tether.js"></script>
<script>
  $(function()
  {
      $("[data-toggle='tooltip'"]).tooltip();
  });
</script>
<button type="button" .btn.btn-primary data-toggle data-placement="top" title="Top Tooltip">
  └ Hover for Top
```

="tooltip"

data-toggle ^ data-placement = "top"   title = "Top Tooltip" >

bottom,   /* Bottom
left,   Left
right   Right */

Top Tooltip

Hover for Top
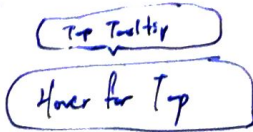
60) Popovers

```html
<script src="tether.js"></script>
<script>
  $(function()
  {
      $("[data-toggle='popover'"]).popover();
  });
<button type="button" .btn.btn-secondary data-container="body" data-toggle="popover" data-placement="top"
    data-content="Top">
          ↳ bottom, left, right
  └ Top popover
→ $(".popover-dismiss").popover({
      trigger: "focus"})
```
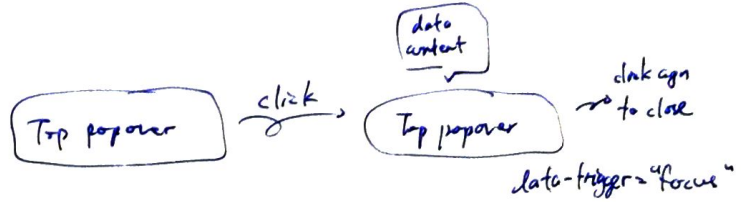
data content

Top popover — click → Top popover → click agn to close

data-trigger="focus"
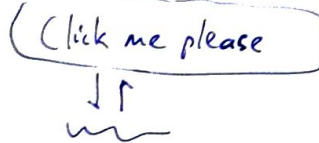
bottom
left
right

→ click outside to disappear pop up.

61) Collapse

button . btn . btn-primary type = "button" data-toggle = "collapse" data-target = "# Collapse ID" aria-expanded = "false"
aria-control = "Collapse ID"

   └ Click me please

.collapse id = "Collapse ID"

   └ ⌇⌇

┌─────────────────────────┐
│ Click me please   │
└─────────────────────────┘
     ↓↑
    ⌇⌇

62) Accordian Collapse

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

└ . panel . panel-default

┌ └ .panel-heading role = "tab" id = "Heading One"

    └ h4 . panel-title ──────→ . collapsed

×3 ┤ └ a data-toggle = "collapse" data-parent = "#Accordion" href = "# CollapseOne" aria-expanded = "true"
                                                      ↓   ↓
        aria-controls = "CollapseOne"   Two   false
                           ──→ Two

      └ Collapsible Group Item 1

└ #CollapseOne . panel-collapse . collapse . in role = "tabpanel" aria-labelledby = "Heading One" >
                                                             ↓
      └ ⌇⌇ Two   Two

Collapsible Group Item 1
click ⌐ ─────────────────
      ⌇⌇───── ──────   2
click ⌐
(others close) ───── ─────
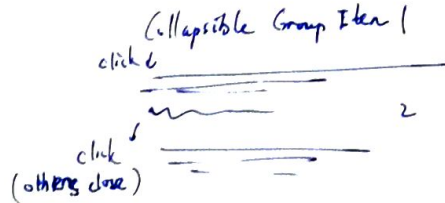
63) Carousel: Image Slider

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

    ↳ `ol . carousel-indicators`

       ↳ `<li data-target="#carousel-exam-gen" data-slide-to="0" .active` } x 3
                                                                    ↳ ↓
                                                       1 ===
                                                       2

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

       ↳ `. carousel-item .]active`

         ↳ `<img src="2" }` x n
             → right   >`. carousel-caption >` `h2 >` title
                                      `p >` oh yeah

    ↳ `a . left . carousel-control href = "#`   " ` role = "button" data-slide = "prev"`   → next
                                                                         } x 2

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

       ↳ `span . sr-only > Previous .`
                            &
                           Next