1 rem == 16px



Horizontal Alignment

- text-justify
- text(-XX)-POS

XX: sm >576px md >768px lg >992px xl >1200px POS: left center right



Line Height Alignment

align-SID

baseline top middle bottom text-bottom text-top right



Capitalization

text-TYP

TYP:
lowercase uppercase
capitalize monospace



Text Styles

font-STYL

italic weight-normal
weight-light weight-lighter
weight-bold weight-bolder



Text Modifiers

- text-decoration-none
- text-reset



text-FLOW

FLOW:
wrap nowrap break truncate



- list-unstyled no bullets
- Inline Lists
 - list-inline on UL
 - list-inline-item on each LI



Text Colors

text-COLOR for text

COLOR:

primary secondary success danger warning info

light dark body black-50 white-50 muted white



Background Colors

bg¬COLOR for text

COLOR:

primary secondary success danger warning info

light dark white transparent



Basic Images

- img-fluid responsive images
- img-thumbnail rounded 1px border



Rounded

ROUNDED(-SID) (-SHA) (-SIZ)

SID: top right bottom left

SHA: circle pill

SIZ: 0 sm lg

24

Aligning Images

- float-left or float-right
- text-center center inline
- mx-auto center block



Figures

- figure on the <figure> tag
- figure-img on the images
- figure-caption on the text

Variables

- New feature in CSS
- Browser compatibility
- var() and :root
- Doesn't change existing

Variables

- Color/Contextual Variables
- --blue --indigo --purple --pink --red
 --orange --yellow --green --teal --cyan
 --white --gray --gray-dark --light --dark
 --primary --secondary --success
 --info --warning --danger
- Media Queries
 - --breakpoint-xs --breakpoint-sm --breakpoint-md,
 --breakpoint-lg --breakpoint-xl
- Fonts

--font-family-sans-serif --font-family-monospace

12-Column Grid Breakpoints

- Extra small *
- Small
- Medium * New in Bootstrap 4
- Large
- Extra large

The Grid

- Responsive 12-column
- Flexbox Based
- container row column

Grid Containers

- container(-SIZ) SIZ: sm md lg xl fluid
- 15px padding

Container Sizing

	Extra small < 576px	Small ≥ 576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
.container	100%	540px	720px	960px	1140px
.container-sm	100%	540px	720px	960px	1140px
.container-md	100%	100%	720px	960px	1140px
.container-lg	100%	100%	100%	960px	1140px
.container-xl	100%	100%	100%	100%	1140px
.container-fluid	100%	100%	100%	100%	100%

Rows

- row
- row-cols(-BP)(-COL))
- BP: sm >576px md >768px lg >992px xl >1200px COL: 1-6
- no-gutters delete space between

Columns

- Up to 12 columns
- col(-BP)(-COL) BP: sm >576px md >768px lg >992px xl >1200px

Aligning Columns

Vertical

COL: 1-12

- align-TYP-DIR
- TYP: items self
- DIR: start center end
- Horizontal justify-content-DIR

DIR: start center end around between

Multiple Rows & Cols

- container(-SIZ) SIZ: sm md lg xl fluid
- row row-cols(-BP)(-COL) BP: sm >576px md >768px lg >992px xl >1200px COL: 1-6
- col(-BP)(-COL)
- BP: sm >576px md >768px lg >992px xl >1200px

Column Offsets

- offset-BP-COL
- BP: sm >576px md >768px lg >992px xl >1200px COL: 1-11

Nesting

- row inside column
- Creates 12-col grid
- Use same classes

Order

- order(-BP)-ORD
- BP: sm >576px md >768px lg >992px xl >1200px ORD: 1-12

Vertical Alignment

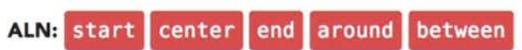
- Use in rows
- align-items-ALN ALN: start center end
- Works on nested cols

Individual Alignment

- Use in cols
- align-self-ALN
- ALN: start center end

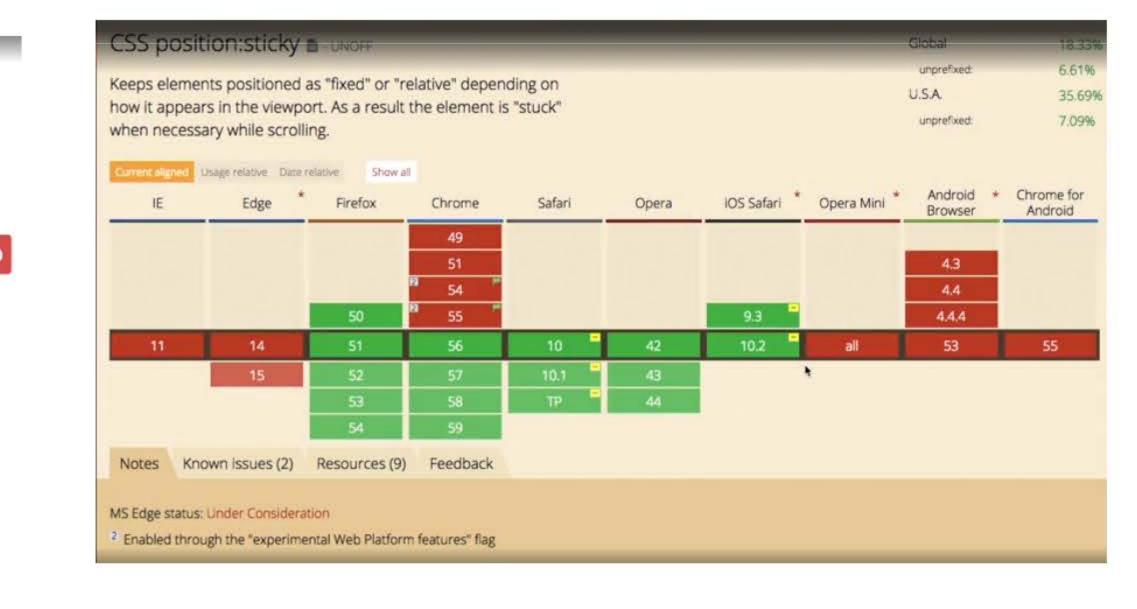
Horizontal Alignment

- Use in rows
- Need col width
- justify-content-ALN



Position

- Position classes
- fixed-top fixed-bottom sticky-top
- sticky-top lacks support



Basic Display

- Mimics CSS
- d(-BP)-TYP BP: sm >576px md >768px lg >992px xl >1200px TYP: none inline inline-block block table table-row table-cell flex inline-flex

Print Display

- d-print-TYP
- TYP: none inline inline-block block table table-row table-cell flex inline-flex
- d-none d-print-block
- TYP: none inline inline-block block table table-row table-cell flex inline-flex

Basic Flex Container

 d(-BP)(-inline)-flex BP: sm >576px md >768px lg >992px xl >1200px

Flex Container

- Container/item classes
- d(-BP)(-inline)-flex
- BP: sm >576px md >768px lg >992px xl >1200px

Direction

- flex(-BP)(-DIR)(-reverse)
- BP: sm >576px md >768px lg >992px xl >1200px DIR: row column



order(-BP)-ORD BP: sm >576px md >768px lg >992px xl >1200px ORD: 1-12

Justify

- justify-content(-BP)-ALG
- BP: sm >576px md >768px lg >992px xl >1200px ALG: start end center around between

Wrap

- flex(-BP)-WRP(-reverse)
- BP: sm >576px md >768px lg >992px xl >1200px WRP: wrap nowrap

Vertical Alignment

- align-content(-BP)-ALG
- BP: sm >576px md >768px lg >992px xl >1200px ALG: start end center between around stretch

Align Self

- align-self(-BP)-ALG
- BP: sm >576px md >768px lg >992px xl >1200px ALG: start end center baseline stretch

Controlling order

- order(-BP)-ORD
- BP: sm >576px md >768px lg >992px xl >1200px ORD: 1-12

Floating Elements

- float-(BP)-SID
- BP: sm >576px md >768px lg >992px xl >1200px SID: left right none

Margin/Padding

pb(-BP)-(N)SIZ

SIZ: 0 1 2 3 4 5 auto

- PRO: m margin p padding SID: t r b l x y BP: sm >576px md >768px lg >992px xl >1200px
- py-xl-5



- invisible, visible
- d(-BP)-TYP BP: sm >576px md >768px lg >992px xl >1200px TYP: none inline inline-block block table table-cell flex inline-flex



- SIZ(-AMT)
- SIZ: w h mw mh vw vh min-vw min-vh AMT: 25 50 75 100 auto
 - Borders
- BORDER(-SID)(-COL)(-0) SID: top right bottom left COL: primary secondary success danger warning



ROUNDED(-SID)(-SHA)(-SIZ)

SID: top right bottom left SHA: circle pill

info light dark white

SIZ: 0 sm lg

Navigation Components

- Navs
- Tabs
- · Pills
- Navbars

Basic Nav Classes

- With/without ULs
- nav
- nav-item
- nav-link

Nav Link Options

- active
- disabled

Nav Styles

- nav-pills
- nav-tabs

Nav Alignment

- justify-content-center
- justify-content-end
- nav-fill
- nav-justified
- flex-column

Navbar Components

- Branding
- Color schemes
- Dropdowns
- Form elements

Navbar Classes

- navbar
- navbar-expand(-BP)



Navbar Colors

- bg-COLOR for backgrounds
 primary secondary success danger
 warning info light dark white
- navbar-light
- navbar-dark

navbar-nav Options

- navbar-nav container
 - nav-item
 - nav-link
 - active
 - disabled

Navbar Options

- navbar-brand
- Link or Headline
- Using Images
- navbar-text

___ Dropdown Setup

- dropdown to align
- dropdown-toggle on link
- data-toggle="dropdown"

Dropdown Setup

- dropdown-menu
- dropdown-item
- id & aria attributes

Form Classes

- form-inline
- form-control
- Spacing as needed

Placement Options

- fixed-top
- fixed-bottom
- sticky-top
- Spacing as needed

Collapsable Content

- collapse
- navbar-collapse
- id

Toggler Classes

- navbar-toggler
- Other Properties
- navbar-toggler-icon



Button Options

- btn basic class
- btn-SIZ
 siz: sm lg
- <a> <button> <input>

Button Colors

- btn-COLOR
 primary secondary success danger
 warning info light dark
- btn-outline-COLOR
 primary secondary success danger
 warning info dark

Other Options

- btn-block full width
- active
- disabled



Button Group Classes

- btn-group
- btn-group-vertical
- btn-toolbar

Badge Classes

- badge
- badge-pill
- badge-COLOR
 primary secondary success danger
 warning info light dark

Progress Classes

- progress containers
- progress-bar item
- Style width, height
- Label text

Progress Styles

- Use bg-COLOR
 - success info warning danger
- progress-bar-striped
- progress-bar-animated
- Multiple bars

Accessibility Properties

- role="progressbar"
- aria-valuenow
- aria-valuemin
- aria-valuemax

List Groups

- Swimsuit
 Milk
- Swim cap
 Butter
- GogglesEggs
- Towel
 Chorizo

List Group Classes

- list-group containers
- list-group-item items
- li button a

List Group Styles

- active disabled
- list-group-item-action style
- Use list-group-item-COLOR

 primary secondary success danger warning info light dark
- list-group-horizontal(-BP)
- BP: sm >576px md >768px lg >992px xl >1200px

Adding Badges

- badge classes
- justify-content-between

Breadcrumb Links

- breadcrumb containers
- breadcrumb-item items
- active style
- li nav>a

Shadows

- shadow-none
- shadow-sm
- shadow
- shadow-lg





- jumbotron container
- jumbotron-fluid items
- Use styles as needed

- table
- table-dark



- table-striped
- table-bordered
- table-borderless
- table-hover



- thead-light
- thead-dark



- table-COLOR TRs & TDs active primary secondary success danger warning info light dark
- bg-COLOR TRs & TDs primary success danger warning info
- text-COLOR for text primary secondary success danger warning info light dark



- table-sm
- table-responsive(-BP)





- card container
- card-body
- card-header
- card-footer



bg-C0L0R for backgrounds

info light dark white primary secondary success danger

 border-COLOR for outlines primary secondary success danger warning info light dark

 text-COLOR for text primary secondary success danger warning info light dark

Card Images

- card-img
- card-img-top
- card-img-bottom
- card-img-overlay



- list-group container
- list-group-item
- list-group-flush

Card Layouts

Create designs that are boxed into elements that look like cards

Dr. Winthrop

Dr. Winthrop is the guardian of Missy, a three-year-old Lhaso mix, who he adopted at the shelter.

Card Layout Containers

- card-group
- card-deck
- card-columns

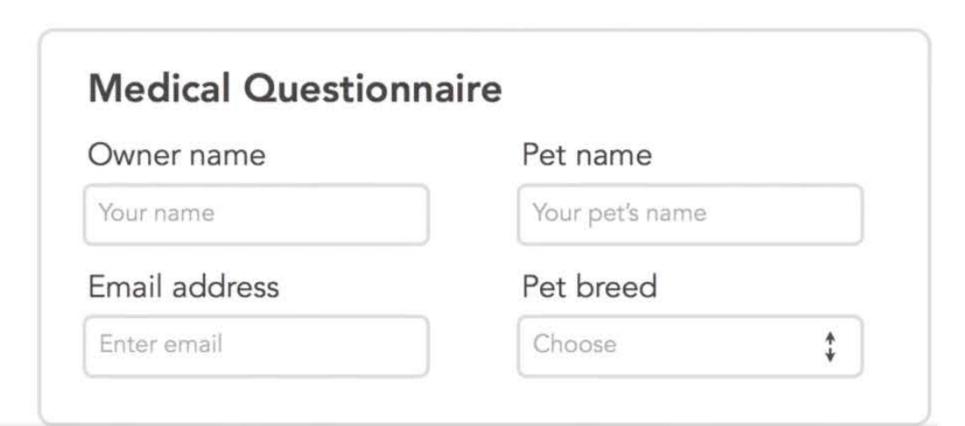
Using the Grid

row row(-cols(-BP)(-COL)) BP: sm >576px md >768px lg >992px xl >1200px COL: 1-6

Media Classes

- media containers
- media-body
- Use flexbox classes

Forms



Form Classes

- form-group
- form-text

Form controls

- form-control
- form-control-label
- form-control-file

Form Check Classes

- form-check
- form-check-label
- form-check-input
- form-check-inline

Form Styles

- form-control-sm
- form-control-lg
- form-inline

Form Columns

- Use row col
- needs form-row col-auto
- col-form-label

Input Group

- input-group
- input-group-prepend input-group-append
- input-group-text
- aria-label sr-only

Custom Controls

- custom-TYP
- TYP: select(-sm)(-lg) radio checkbox switch range file-input
- custom-control-label
- custom-control
- custom-control-input



Using Tooltips

- Links or Controls
- data-toggle="tooltip"
- title="text"

Configuration & Activation

- data or JS Configuration

\$('[data-toggle="tooltip"]').tooltip({ OPTIONS })

<div class="tooltip bs-tooltip-top" role="tooltip"> <div class="arrow"></div>
<div class="tooltip-inner">
 Some tooltip text!

• placement top right bottom left

trigger click hover focus

• html true false

Common Options

\$(function () {

Using PopOvers

data-toggle="popover"

data-content="content"

title="text"

• placement top right bottom left

• trigger click hover focus

\$('[data-toggle="popover"]').popover({ OPTIONS })

Activating

container

dropdown-menu-right

disabled

Collapses and accordions are used to contract and expand content.

Accordion

• dropdown-menu

• Use card

Collapse

- Link or Button Requires container
- data-toggle="collapse" show class once
- #id or data-target collapse class

Dropdown Classes • dropdown

Dropdown Basics

Navs, Tabs, etc.

links or buttons

Button/Nav Trigger

• dropdown-menu

• dropdown-item

dropdown-header

dropdown-divider

- dropdown-toggle
- alert-heading
- alert-link

primary secondary success danger

warning info light dark

Alert Content

Dismissible Alerts

alert

alert-COLOR

- alert-dismissible fade show
- Add a close button

Dropdown Options

Dropdown Elements

btn-sm btn-lg

• dropup

btn-group dropdown-toggle-split

Modals

• modal

Button or Link

data-toggle="modal"

Structural Classes

modal-dialog

modal-content

modal-header

modal-footer

Modal Options

modal-dialog-centered

data-dismiss="modal"

Modal Sizes

modal-dialog-scrollable

modal-body

- carousel, slide, carousel-fade, target • #id or data-target
 - carousel-inner
 - carousel-item, active o img d-block & w-100
 - carousel-caption
 - Controls & Indicators

Data Attributes

- ride : carousel | false
- pause : hover | false

• interval : 5000 / item

• touch, keyboard, wrap: true

Controls

carousel-control-(prev)(next)

carousel-indicators

data-target="target"

data-slide-to="#"

- carousel-control-(prev)(next)-icon
- href="target"

Indicators

Max-width

all	modal-sm	300px	
ault	none	500px	
ge	modal-lg	800px	
ra Large	modal-xl	1140px	

- data-spy="scroll"
- position: relative data-target="ID"
- fixed-top
- data-offset

Using Toasts

- toast

- toast-body

Data Attributes

• autohide : true

• animation : true

• delay : 500

Setup

JS activation

- Positioning
- data-dismiss="toast"

Spinners spinner-TYP(-SIZ)

text-COL for color

TYP: border grow

- pagination
 - page-item, disabled, active

Pagination

- page-link
- Cards, columns

Stretched Links

stretched-link

- Position, transform
- Immediate parent
- embed-responsive-item

Embeds

embed-responsive-SIZ

SIZ: 21by9 16by9 4by3 1by1

embed-responsive