BOOTSTRAP 4

12-COLUMN GRID SYSTEM

- Extra small

- Small

- Medium

- Large

- Extra large

GRID SYSTEM

The Grid

- Responsive 12-column
- Flexbox Based
- Structure
  - containers
  - rows/columns

GRID CONTAINERS

Grid Containers

- container
- container-fluid
- 15px padding
- Adjusts to breakpoints

<576px | 576px | 768px | 992px | 1200px

Grid Containers

- container(-SIZ)

SIZ: sm | md | lg | xl | fluid

CONTAINER SIZING

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

Rows

- `row`

- `row-cols(-BP)(-COL))`

  BP: `sm` >576px `md` >768px `lg` >992px `xl` >1200px

  COL: `1-6`

- `no-gutters` delete space between

GRID COLUMN

Columns

- 12 Column Grid

- Columns can span

- `col(-BP)(-COL)`

BP: sm >576px md >768px lg >992px xl >1200px

COL: 1-12

GRID COLUMN SPECS

Column Specs

	Extra small < 576px	Small ≥ 576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-

ALIGNMENT

Aligning Columns

- **Vertical**

  `align-TYP-DIR`

  TYP: `items` `self`

  DIR: `start` `center` `end`

- **Horizontal**

  `justify-content-DIR`

  DIR: `start` `center` `end` `around` `between`

Vertical Alignment

- Use in rows

- align-items-ALN

ALN: start center end

Individual Alignment

- Use in cols

- `align-self-ALN`

ALN: start center end

Horizontal Alignment

- Use in rows

- Need col width

- `justify-content-ALN`

ALN: `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

  COL: `1-12`

▦ Column Offsets

- `offset-BP-COL`

BP: `sm` >576px `md` >768px `lg` >992px `xl` >1200px

COL: `1-11`

ORDER ITEMS

- `order(-BP)-ORD`

BP: `sm` >576px `md` >768px `lg` >992px `xl` >1200px

ORD: `1-12`

⬛ Position

- Position classes

  `fixed-top` `fixed-bottom` `sticky-top`

- `sticky-top` lacks support

NESTING

Nesting

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

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`