12-Column Grid Breakpoints

- Extra small *
- Small
- Medium
- Large
- Extra large

* New in Bootstrap 4

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
  COL: 1-12

Aligning Columns

- Vertical
  `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
  COL: 1-12

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

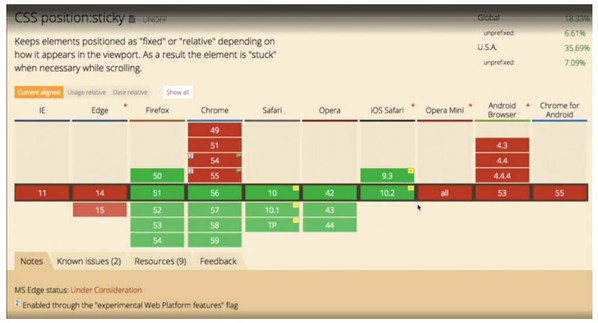
- Use in cols
- `align-self-ALN`
  ALN: start center end

Horizontal Alignment

- Use in rows
- Need col width
- `justify-content-ALN`
  ALN: start center end around between

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

- `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`
  PRO: m margin p padding
  SID: t r b l x y
  BP: sm >576px md >768px lg >992px xl >1200px
  SIZ: 0 1 2 3 4 5 auto
- `py-xl-5`

Visibility

- `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

Sizing

- `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 info light dark white

Rounded

- `ROUNDED(-SID)(-SHA)(-SIZ)`
  SID: top right bottom left
  SHA: circle pill
  SIZ: 0 sm lg