

# Bootstrap

## Typography & Utilities

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# Agenda

- Headings
- Basic Typography
- Text Alignment
- Float
- Position
- Colors
- Spacing
- Sizing
- Borders
- CSS Breakpoints
- Q & A

# Headings

- <H1> through <H6> HTML tags
- .h1 through .h6 classes
  - <p class="h1">h1. Bootstrap heading</p>
- Secondary heading

```
<h3>  
  Fancy display heading  
  <small class="text-muted">With faded secondary text</small>  
</h3>
```

- Display headings
  - .display-1 through display-4

```
<h1 class="display-1">Display 1</h1>  
<h1 class="display-2">Display 2</h1>
```

# Basic Typography

- Lead
  - Make a paragraph stand out by adding `.lead` class
- Styling classes
  - Bold
    - `.font-weight-bold`
  - Normal
    - `.font-weight-normal`
  - Italic
    - `.font-italic`

# Basic Typography

- Text Transform
  - Lowercase
    - .text-lowercase
  - Uppercase
    - .text-uppercase
  - Capitalize
    - .text-capitalize
- Blockquote
  - For quoting blocks of content from another source within your document
    - .blockquote
  - Add a <footer class="blockquote-footer"> for identifying the source. Wrap the name of the source work in <cite>
    - .blockquote-footer
  - Use text utilities as needed to change the alignment of your blockquote
    - .text-right, .text-center

# Basic Typography

- Lists
  - Remove the default list-style and left margin on list items
  - This only applies to immediate children list items
    - `.list-unstyled`
  - Remove a list's bullets and apply some light margin with a combination of two classes
    - `.list-inline`
    - `.list-inline-item`

# Text Alignment

- Justify
  - `.text-justify`
- Alignment
  - `.text-left`
  - `.text-center`
  - `.text-right`
- Responsive Align
  - `.text-sm-{left | center | right}`
  - `.text-md-{left | center | right}`
  - `.text-lg-{left | center | right}`
  - `.text-xl-{left | center | right}`

# Text Alignment

- Vertical Alignment

- .align-baseline
- .align-top
- .align-bottom
- .align-middle
- .align-text-top
- .align-text-bottom

- Display

- Turn block to inline
  - .d-inline
- Turn inline to block
  - .d-block
- Inline block
  - .d-inline-block



# Float

- Float
  - These utility classes float an element to the left or right, or disable floating, based on the current viewport size using the CSS float property
    - .float-left
    - .float-right
    - .float-none
- Responsive Floats
  - .float-sm-{ left | right | none }
  - .float-md-{ left | right | none }
  - .float-lg-{ left | right | none }
  - .float-xl-{ left | right | none }
- Clearfix
  - Quickly and easily clear floated content within a container by adding a clearfix utility

# Position

- Use these shorthand utilities for quickly configuring the position of an element
  - .fixed-top
  - .sticky-top
  - .fixed-bottom

# Colors

- Convey meaning through color with a handful of color utility classes
  - .text-primary
  - .text-secondary
  - .text-success
  - .text-info
  - .text-warning
  - .text-danger
  - .text-light
  - .text-dark
  - .text-white
- Background
  - .bg-primary
  - .bg-secondary
  - .bg-success
  - .bg-info
  - .bg-warning
  - .bg-danger
  - .bg-light
  - .bg-dark
  - .bg-white
- Invisible
  - .invisible

# Spacing

- Bootstrap includes a wide range of shorthand responsive margin and padding utility classes to modify an element's appearance
  - Syntax: {property}{sides}-{size}

- {property} is one of:
  - m - for classes that set margin
  - p - for classes that set padding

- {side} is one of:
  - t - for classes that set margin-top or padding-top
  - b - for classes that set margin-bottom or padding-bottom
  - l - for classes that set margin-left or padding-left
  - r - for classes that set margin-right or padding-right
  - x - for classes that set both \*-left and \*-right
  - y - for classes that set both \*-top and \*-bottom
  - blank - for classes that set a margin or padding on all 4 sides of the element

- {size} is one of:
  - 0 - for classes that eliminate the margin or padding by setting it to 0
  - 1 - (by default) for classes that set the margin or padding to \$spacer \* .25
  - 2 - (by default) for classes that set the margin or padding to \$spacer \* .5
  - 3 - (by default) for classes that set the margin or padding to \$spacer
  - 4 - (by default) for classes that set the margin or padding to \$spacer \* 1.5
  - 5 - (by default) for classes that set the margin or padding to \$spacer \* 3
  - auto - for classes that set the margin to auto

# Sizing

- Easily make an element as wide or as tall (relative to its parent) with width and height utilities
  - Width
    - .w-25
    - .w-50
    - .w-75
    - .w-100
  - Height
    - .h-25
    - .h-50
    - .h-75
    - .h-100

# Borders

- Use border utilities to quickly style the border and border-radius of an element
- Great for images, buttons, or any other element
- Additive
  - `.border`
  - `.border-{ top | right | bottom | left }`
- Subtractive
  - `.border-0`
  - `.border-{ top | right | bottom | left }-0`

# Borders

- Border color
  - .border-{ primary | secondary }
  - .border-{ success | danger | warning | info }
  - .border-{ light | dark | white }
- Border radius
  - .rounded
  - .rounded-{ top | right | bottom | left | circle }
  - .rounded-0

# CSS Breakpoints

- Media queries
  - Useful when you want to modify your site or app depending on
    - Device's general type
      - print vs. screen
    - Specific characteristics and parameters
      - screen resolution or browser viewport width
- Bootstrap uses few media queries to create sensible breakpoints for layouts and interfaces



# CSS Breakpoints

- Bootstrap primarily uses the following media query ranges

```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```

# CSS Breakpoints

- Bootstrap occasionally uses media queries that go in the other direction

```
// Extra small devices (portrait phones, less than 576px)
@media (max-width: 575.98px) { ... }

// Small devices (landscape phones, less than 768px)
@media (max-width: 767.98px) { ... }

// Medium devices (tablets, less than 992px)
@media (max-width: 991.98px) { ... }

// Large devices (desktops, less than 1200px)
@media (max-width: 1199.98px) { ... }

// Extra large devices (large desktops)
// No media query since the extra-large breakpoint has
// no upper bound on its width
```

# Q & A

- Thank you!