Bootstrap Documentation

# Grid System

The Bootstrap Grid system is a powerful mobile-first flexbox system for building layouts of all shapes and sizes. It uses a series of containers, rows, and columns to layout and align content. Here's a quick overview:  
  
1. Container:   
 The `.container` class is used to contain the grid. It's a responsive fixed-width container, meaning its width changes at different breakpoints.  
   
2. Row:   
 Inside a container, rows (`.row`) are used to create a horizontal group of columns.   
   
3. Columns:   
 Bootstrap’s grid system has 12 columns. You can specify how many columns an element should span using `.col-\*` classes (e.g., `.col-6`, `.col-md-4`).  
  
4. Breakpoints:   
 Bootstrap is built to be responsive. The grid system scales with six breakpoints: `xs`, `sm`, `md`, `lg`, `xl`, and `xxl`. This allows you to create different column configurations for different screen sizes.

# Containers

Bootstrap containers are fundamental building blocks for the layout and alignment of content. There are three types of containers:  
  
1. .container:   
 Provides a fixed-width container based on the current breakpoint.  
   
2. .container-fluid:   
 Full-width container, spanning the entire width of the viewport.  
   
3. .container-{breakpoint}:   
 Allows you to create containers that are responsive up to a specific breakpoint (e.g., `.container-md` for a container that becomes responsive at the `md` breakpoint).

# Important Classes

### Colors:  
Bootstrap has a wide array of color utilities that can be applied to the background or text. The common classes are:  
  
- `.bg-primary`, `.bg-secondary`, `.bg-success`, `.bg-danger`, `.bg-warning`, `.bg-info`, `.bg-light`, `.bg-dark`  
- `.text-primary`, `.text-secondary`, `.text-success`, `.text-danger`, `.text-warning`, `.text-info`, `.text-light`, `.text-dark`  
  
### Text and Fonts:  
- `.text-center`: Centers the text.  
- `.text-start`: Aligns the text to the left.  
- `.text-end`: Aligns the text to the right.  
- `.fw-bold`: Makes text bold.  
- `.fw-light`: Makes text lighter.

### Borders:  
- `.border`: Adds a border to an element.  
- `.border-{color}`: Adds a border of a specific color, like `.border-primary` or `.border-dark`.  
  
### Backgrounds:  
- `.bg-light`, `.bg-dark`, `.bg-primary`: These classes are used to change the background color of elements.

### Flex:  
Flexbox utilities in Bootstrap allow for flexible layouts. Some common flex classes are:  
  
- `.d-flex`: Activates flexbox.  
- `.justify-content-center`: Centers items horizontally.  
- `.align-items-center`: Centers items vertically.

### Margin and Padding:  
You can control margins and padding with spacing utilities. These classes use the format `m` for margin, `p` for padding, followed by a size or breakpoint.  
  
- `.m-3`: Adds margin to all sides.  
- `.mt-3`: Adds margin to the top.  
- `.p-4`: Adds padding to all sides.