🧠Ultimate Bootstrap 5 Cheat Sheet

This guide includes all essential **Bootstrap 5** concepts, utilities, classes, and how to use them effectively with code examples.

😨1. Containers

Bootstrap uses containers to wrap site content.

Classes:

- `container` – Fixed width, responsive
- `container-fluid` – Full width always
- `container-{breakpoint}` – Fluid until breakpoint (e.g., `container-md`)

Example:

```
<div class="container">Content inside fixed-width container</div>
<div class="container-fluid">Full-width container</div>
```

😨2. Grid System

12-column responsive flexbox grid.

Key Classes:

- `row` – Row container
- `col` – Auto width column
- `col-{n}` – Fixed width column (out of 12)
- `col-{breakpoint}-{n}` – Responsive (e.g. `col-md-6`)
- `row-cols-{n}` – Auto-break rows (e.g. `row-cols-2`)

Example:

```
<div class="row">
  <div class="col-6">50%</div>
  <div class="col-6">50%</div>
</div>

<div class="row row-cols-3">
  <div class="col">1</div>
```

```
    <div class="col">2</div>
    <div class="col">3</div>
</div>
```

😦3. Spacing Utilities

Margin (m) and Padding (p)

- m or p + direction + scale

Directions:

- t (top), b (bottom), s (start/left), e (end/right), x (left & right), y (top & bottom), blank (all sides)

Scale:

- 0 (0px), 1 (0.25rem), 2 (0.5rem), 3 (1rem), 4 (1.5rem), 5 (3rem), auto

Examples:

```
<div class="mt-3">Margin top</div>
<div class="p-2">Padding all sides</div>
<div class="my-4">Margin top & bottom</div>
<div class="ms-auto">Left margin auto</div>
```

😦4. Text Utilities

Alignment:

- text-start , text-center , text-end

Wrapping:

- text-wrap , text-nowrap

Colors:

- text-primary , text-success , text-muted , etc.

Font Size:

- fs-1 to fs-6 (1 is largest)

Weight:

- `fw-bold`, `fw-light`, `fw-normal`

Example:

```
<p class="text-center text-muted fw-bold fs-3">Hello Bootstrap</p>
```

😨5. Background Utilities

- `bg-primary`, `bg-dark`, `bg-light`, `bg-success`, etc.
- `bg-gradient`, `bg-opacity-{n}`

```
<div class="bg-warning text-white p-3">Warning Box</div>
```

😨6. Borders

Border classes:

- `border`, `border-0`, `border-top`, `border-start`, etc.
- `border-{color}` (e.g. `border-primary`)
- `rounded`, `rounded-circle`, `rounded-0`, `rounded-start`, etc.

```
<div class="border border-primary rounded p-2">Box</div>
```

😨7. Display & Flex Utilities

Display:

- `d-none`, `d-block`, `d-flex`, `d-grid`, etc.
- `d-{breakpoint}-flex` (responsive display)

Flex:

- `justify-content-start`, `center`, `end`, `between`, `around`, `evenly`
- `align-items-start`, `center`, `end`
- `flex-column`, `flex-row`

Example:

```
<div class="d-flex justify-content-between align-items-center">
  <span>Left</span>
  <span>Right</span>
</div>
```

😨8. Buttons

Button styles:

- `btn` (base), `btn-primary`, `btn-outline-secondary`, `btn-lg`, `btn-sm`, `disabled`

```
<button class="btn btn-success btn-lg">Click Me</button>
```

😨9. Images

Responsive:

- `img-fluid` (makes images responsive)
- `rounded`, `rounded-circle`

```
<img src="image.jpg" class="img-fluid rounded" alt="...">
```

😨10. Forms

- `form-control`, `form-label`, `form-select`, `form-check`
- `form-check-input`, `form-check-label`

```
<div class="mb-3">
  <label class="form-label">Email</label>
  <input type="email" class="form-control">
</div>
```

😨11. Navbar

```html
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Brand</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link active" href="#">Home</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

😨12. Breakpoints

Bootstrap uses the following responsive breakpoints:

Breakpoint	Class prefix	Min Width
Extra small	none	0px
Small	sm	576px
Medium	md	768px
Large	lg	992px
Extra large	xl	1200px
XXL	xxl	1400px

😨13. Visibility & Position

Visibility:

- visible , invisible
- d-none , d-{breakpoint}-block

Position:

- `position-relative` , `position-absolute` , `position-fixed`
- `top-0` , `bottom-0` , `start-0` , `end-0`

😧14. Icons (Bootstrap Icons)

Use icons like this:

```
<i class="bi bi-alarm"></i>
```

Make sure to include the Bootstrap Icons CSS CDN:

```
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons/font/bootstrap-icons.css">
```

👈Recommended Bootstrap Layout Template

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Site</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons/font/bootstrap-icons.css" rel="stylesheet">
</head>
<body>
  <div class="container my-5">
    <!-- Your content here -->
  </div>
</body>
</html>
```

This cheat sheet should cover 95% of what you'll use while working with Bootstrap. Let me know if you want an interactive example or custom layout!