

1Getting Started

CDN — CSS in <head>, JS bundle before </body>:

<link rel="stylesheet" href=".../bootstrap.min.css"><script src=".../bootstrap.bundle.min.js"></script>

npm: npm i bootstrap @popperjs/core

Required <meta name="viewport"> for responsive scaling; bundle = Popper.js included, or load it separately.

2Grid System

<div class="container"> <!-- fixed --><div class="container-fluid"><!-- 100% --><div class="row"><div class="col-md-8"></div><div class="col-md-4"></div></div></div>

xs <576px — no infix, always stacks

sm/md/lg ≥576/768/992px

xl/xl ≥1200/1400px

12 columns/row. .offset-*, .order-*, nested .row inside a .col.

3Typography & Reboot

<h1>h1</h1> ... <h6>h6</h6><p class="display-1">Display</p><p class="lead">Lead paragraph</p><small>, <mark>, <abbr>, <blockquote>

Reboot = Bootstrap's CSS reset (box-sizing: border-box, margin normalization, base font/line-height) — applied automatically.

4Images & Tables

<figure class="figure"><figcaption class="figure-caption">...</figcaption></figure>

<table class="table table-striped table-hover"><div class="table-responsive">...</div>

5Colors

Theme names: primary secondary success danger warning info light dark

.text-{name} .bg-{name}.bg-{name}-subtle .border-{name}

All generated from Sass \$theme-colors map — see Customization.

6Forms

<input class="form-control"><select class="form-select"><input class="form-check-input" type="checkbox"><div class="input-group">...</div><div class="form-floating">...</div>

Validation: .is-valid/.is-invalid + .valid-feedback/.invalid-feedback; or .was-validated + native :invalid.

7Components

Navbar/breadcrumb/pagination: .navbar, .breadcrumb, .pagination

Cards/lists/badges: .card (-header/-body/-footer), .list-group, .badge

Feedback: .alert, .modal, .toast

Interactive: .dropdown, .accordion, .carousel (all Popper.js/JS-driven)

8Buttons

<button class="btn btn-primary"><button class="btn btn-outline-danger btn-sm"><div class="btn-group">...</div><div class="btn-toolbar">...</div>

States: :hover :active :disabled, toggle via data-bs-toggle="button".

9Tooltips & Popovers

<button data-bs-toggle="tooltip" title="Text">Hover</button>

new bootstrap.Tooltip(el);new bootstrap.Popover(el, { html: true });

Must be initialized in JS — not auto-enabled. Positioned by Popper.js.

10Utilities

.m-{0-5|auto} .p-{0-5} // spacing.mt- .me- .mb- .ms- .mx- .my-.d-{none|flex|grid|block}.justify-content-{...} .align-items-{...}.position-{absolute|relative|fixed}.shadow .shadow-sm .rounded

Every utility is responsive: .d-md-none, .mt-lg-4.

11Utility API

\$utilities: map.merge(\$utilities, ({cursor: ({property: cursor, values: pointer grab})});

Sass map drives generation — add/override/remove any utility, control responsive/state variants, before @import "bootstrap".

12Customization & JS API

\$primary: #e91e63; // before import@import "bootstrap/scss/bootstrap";

Ships as --bs-* CSS custom properties too — runtime-tweakable without recompiling.

el.addEventListener("shown.bs.modal", fn);data-bs-toggle="modal" data-bs-target="#id"

Data attrs for markup-only use; JS API (new bootstrap.Modal(...)) for programmatic control. No jQuery.