DevSheets

Bootstrap 5

Mobile-first grid, utility classes and components.

01 Starter page

```
<meta name="viewport" content=
  "width=device-width, initial-scale=1">
<link href="css/bootstrap.min.css"
      rel="stylesheet"> <!-- in head -->
<script src="js/bootstrap.bundle.min.js">
</script>                <!-- end of body -->
```

CDN: prefix cdn.jsdelivr.net/npm/bootstrap@5.3.9/dist/ and copy the integrity hash from the docs. The bundle includes Popper for dropdowns, tooltips and popovers.

02 Install with npm

```
npm install bootstrap @popperjs/core
```

```
import 'bootstrap/dist/css/bootstrap.css'
import * as bootstrap from 'bootstrap'
import { Modal, Tooltip } from 'bootstrap'
```

Sass instead: @import "bootstrap/scss/bootstrap". A partial build imports functions, variables, variables-dark, maps, mixins and root first.

03 Breakpoints & containers

xs	Under 576px, container 100%
sm	576px+, container 540px
md	768px+, container 720px
lg	992px+, container 960px
xl	1200px+, container 1140px
xxl	1400px+, container 1320px

xs has no infix: col-6 is every size, col-md-6 is md and up. container-fluid is always 100%.

04 Grid: rows & columns

```
<div class="container">
  <div class="row">
    <div class="col-12 col-md-4">Side</div>
    <div class="col-12 col-md-8">Main</div>
  </div>
</div>
```

A row holds 12 columns; extra columns wrap. These stack below md and sit side by side from md up. col alone shares the row equally.

05 Grid options

row-cols-2	2 columns per row
row-cols-lg-4	4 per row from lg
offset-md-4	Skip 4 columns from md
order-md-1	Reorder from md
g-3 / gx-5 / gy-5	Gutters: both / x / y; g-0 none
align-items-center	On the row: vertical align

justify-content-center on the row aligns columns horizontally. Nest a new row inside any column.

06 Flexbox utilities

```
<div class="d-flex flex-column flex-md-row
     justify-content-between gap-3">
  <div class="flex-grow-1">Grows</div>
  <div class="flex-shrink-0">Fixed</div>
</div>
```

justify-content-*: start, end, center, between, around, evenly. align-items-*: start, end, center, baseline, stretch. Each has breakpoint forms: d-md-flex.

07 Spacing

m / p	margin / padding
t b s e x y	Top, bottom, start, end, x, y
0 1 2 3 4 5	0, 0.25, 0.5, 1, 1.5, 3rem
mt-3 / px-md-5	Side + size, breakpoint infix
mx-auto	Center a block element

Negative margins (mt-n1) are off by default: set $enable-negative-margins: true in Sass.

08 Typography & text

```
<h1 class="display-4">Hero heading</h1>
<p class="h3">Styled like an h3</p>
<p class="lead">Stand-out intro text</p>
```

fs-1 to fs-6	Font size, h1 to h6 scale
fw-bold	Also semibold, medium, light
text-center	Align; text-md-end from md
text-truncate	One line with an ellipsis

display-1 (5rem) to display-6 (2.5rem).

09 Colors & backgrounds

```
<p class="text-danger">Error</p>
<div class="bg-success-subtle
     text-success-emphasis">Soft</div>
<div class="text-bg-primary">Solid</div>
<div class="bg-dark bg-opacity-50">50%</div>
```

Theme colors: primary, secondary, success, danger, warning, info, light, dark. data-bs-theme="dark" switches mode: -subtle and -emphasis adapt, text-primary does not yet.

Bootstrap 5

Components, JavaScript plugins and helpers.

10 Buttons

```
<button type="button" class="btn
  btn-outline-danger btn-sm">Delete</button>
<a class="btn btn-primary" href="#"
   role="button">Link button</a>
<button class="btn btn-dark" disabled>
  Disabled</button>
```

Colors: primary to dark, plus link. Wrap in d-grid for full width, btn-group to join them.

11 Cards

```
<div class="card h-100">
  <div class="card-body">
    <h5 class="card-title">Title</h5>
    <p class="card-text">Some text.</p>
  </div>
</div>
```

Add card-header above the body, card-footer below and card-img-top for an image. h-100 evens heights in a grid.

12 Forms & validation

```
<form class="needs-validation" novalidate>
  <label for="email" class="form-label">
    Email</label>
  <input id="email" class="form-control"
         type="email" required>
  <div class="invalid-feedback">
    Enter a valid email.</div>
</form>
```

needs-validation is only a hook: on submit, your JS adds was-validated to show feedback. Also form-select, form-check, form-switch, input-group.

13 Alerts

```
<div class="alert alert-warning
  alert-dismissible fade show" role="alert">
  Check your input.
  <button type="button" class="btn-close"
          data-bs-dismiss="alert"></button>
</div>
```

alert-primary to alert-dark set the color.

14 Modal

```
<button class="btn btn-primary"
  data-bs-toggle="modal"
  data-bs-target="#confirm">Open</button>
<div class="modal fade" id="confirm"
     tabindex="-1">
  <div class="modal-dialog">
    <div class="modal-content">...</div>
  </div>
</div>
```

modal-content holds modal-header, -body and -footer. data-bs-dismiss="modal" closes it. One modal at a time.

15 Tooltips, popovers & toasts

```
<button class="btn" data-bs-toggle="tooltip"
  title="Tooltip text">Hover</button>
```

```
const sel = '[data-bs-toggle="tooltip"]'
document.querySelectorAll(sel)
  .forEach(el => new bootstrap.Tooltip(el))
new bootstrap.Toast('#saved').show()
```

All three are opt-in. Popovers: bootstrap.Popover with data-bs-content. Toasts hide after 5000 ms.

16 Navbar

```
<nav class="navbar navbar-expand-lg">
  <a class="navbar-brand" href="#">Logo</a>
  <button class="navbar-toggler"
    data-bs-toggle="collapse"
    data-bs-target="#menu">...</button>
  <div class="collapse navbar-collapse"
       id="menu">...</div>
</nav>
```

The toggler holds a navbar-toggler-icon span; the menu holds ul.navbar-nav with nav-link items. It collapses below lg.

17 Display & position

```
<div class="d-none d-md-block">md+</div>
<div class="position-relative">
  <div class="position-absolute top-50
    start-50 translate-middle">Center</div>
</div>
```

d-print-none hides on paper. fixed-top and sticky-top pin bars; z-0 to z-3 need a positioned element.

18 Borders, shadows & helpers

`border / border-0`	Add / remove all borders
`border-primary`	Color; border-1 to -5 width
`rounded-3`	Radius 0 to 5, circle, pill
`shadow-sm / -lg`	Small / large shadow
`ratio ratio-16x9`	Also 1x1, 4x3, 21x9
`visually-hidden`	Hidden, still read aloud

stretched-link makes a whole card clickable. rounded-circle needs equal width and height.