Bootstrap 4.1.0

CSS

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/
bootstrap.min.css" integrity="sha384-9gVQ4dYFwwWSjIDZnLEWnxCjeSWFphJiwGPXr1jddIhOegiu1
FwO5qRGvFXOdJZ4" crossorigin="anonymous">
```

JS

```
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+
965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></
script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.
js" integrity="sha384-cs/chFZiN24E4KMATLdqdvsezGxaGsi4hLGOzlXwp5UZB1LY//20VyM2taTB4QvJ"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js"
integrity="sha384-uefMccjFJAIv6A+rW+L4AHf99KvxDjWSu1z9VI8SKNVmz4sk7buKt/6v9KI65qnm"
crossorigin="anonymous"></script>
```

Components

Alerts	List group
Badge	Modal
Breadcrumb	Navs
Buttons	Navbar
Button group	Pagination
Card	Popovers
Carousel	Progress
Collapse	Scrollspy
Dropdowns	Tooltips
Forms	
Input group	
Jumbotron	

Utilities

Borders	Sizing
Clearfix	Spacing
Close icon	Text
Colors	Vertical align
Display	Visibility
Embed	
Flex	
Float	
Image replacement	
Position	
Screenreaders	
Shadows	

Breakpoints

Breakpoints

Extra small < 544px

Small ≥ 544px

Medium ≥ 768px

Large ≥ 992px

Extra large ≥ 1200px

Typography

.text-left Left aligned text

.text-center Center aligned text

.text-right Right aligned text

.text-justify Justified text

.text-nowrap No wrap text

.text-lowercause Lowercase text

.text-uppercase Uppercase text

.text-capitalize Capitalized text

.lead Good for first paragraph of article

Blockquote

```
<blockquote class="blockquote">
<p class="m-b-0">Lorem ipsum dolor sit
amet, consectetur adipiscing elit. Integer
posuere erat a ante.</p>
</blockquote>
```

Headings

```
<h1>h1. Bootstrap heading <small>Secondary
text</small></h1>
```

```
<p class="h1">Paragraph that looks like
heading</p>
```

Colors

.text-primary

.text-secondary

.text-success

.text-danger

.text-warning

.text-info

.text-light

.text-dark

.bg-primary

.bg-secondary

.bg-success

.bg-danger

.bg-warning

.bg-info

.bg-light

.bg-dark

.bg-white

Lists

.list-unstyled Removes default list margin

.dl-horizontal Makes list items two columns

.list-inline Makes list items inline

.list-inline-item Added to each li

Example

```
<ul class="social-icons list-inline">
<li class="list-inline-item">item 1</li>
</ul>
```

Images

.img-fluid Make an image responsive

.rounded Adds rounded corners to image

.rounded-circle Crops image to be circle

.img-thumbnail Adds rounded corner + border

Floats

.float-left Floats item left

.float-right Floats item right

.float-none Removes float

.float-*-* Add breakpoints if needed

Bootstrap 4

Starter Template

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css" integrity="sha384-9gVQ4dYFwwWSjIDZnLEWnxCjeSWFphJiwGPXr1jddIhOegiu1FwO5qRGvFXOdJZ4" crossorigin="anonymous">
    <!-- Main CSS -->
    <link rel="stylesheet" href="css/main.css">
  </head>
  <body>
    <div class="container">
      <h1>Hello, world!</h1>
      <div class="row">
          <div class="col-sm-6">Left Column</div>
          <div class="col-sm-6">Right Column</div>
      </div>
    </div>
    <!-- jQuery first, then Tether, then Bootstrap JS. -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js" integrity="sha384-cs/chFZiN24E4KMATLdqdvsezGxaGsi4hLGOzlXwp5UZB1LY//20VyM2taTB4QvJ" crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js" integrity="sha384-uefMccjFJAIv6A+rW+L4AHf99KvxDjWSu1z9VI8SKNVmz4sk7buKt/6v9KI65qnm" crossorigin="anonymous"></script>
    <!-- Main JS -->
    <script src="js/main.js"></script>
  </body>
</html>
```

One Column Centered Grid

```
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-6"></div>
    </div>
</div>
```

Two Column Grid

```
<div class="container">
    <div class="row">
        <div class="col-sm-6"></div>
        <div class="col-sm-6"></div>
    </div>
</div>
```

Three Column Grid

```
<div class="container">
    <div class="row">
        <div class="col-sm-4"></div>
        <div class="col-sm-4"></div>
        <div class="col-sm-4"></div>
    </div>
</div>
```

Four Column Grid

```
<div class="container">
    <div class="row">
        <div class="col-sm-3"></div>
        <div class="col-sm-3"></div>
        <div class="col-sm-3"></div>
        <div class="col-sm-3"></div>
    </div>
</div>
```

Bootstrap 4

Navbar

```html
<nav class="navbar navbar-toggleable-md navbar-dark bg-primary">
  <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse" data-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <a class="navbar-brand" href="#">Navbar</a>
  <div class="collapse navbar-collapse" id="navbarNavDropdown">
    <ul class="navbar-nav">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Features</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Pricing</a>
      </li>
      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="http://example.com" id="navbarDropdownMenuLink" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
          Dropdown link
        </a>
        <div class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
          <a class="dropdown-item" href="#">Action</a>
          <a class="dropdown-item" href="#">Another action</a>
          <a class="dropdown-item" href="#">Something else here</a>
        </div>
      </li>
    </ul>
  </div>
</nav>
```

Modal

```html
<!-- Button trigger modal -->
<button type="button" class="btn btn-primary" data-toggle="modal" data-target="#myModal">
  Launch demo modal
</button>

<!-- Modal -->
<div class="modal fade" id="myModal" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel" aria-hidden="true">
  <div class="modal-dialog" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="exampleModalLabel">Modal title</h5>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        <h2>Modal body heading</h2>
        <p>Modal body text description</p>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary">Save changes</button>
      </div>
    </div>
  </div>
</div>
```

Bootstrap 4

Forms

```
<form>
  <div class="form-group">
    <label for="exampleInputEmail1">Email address</label>
    <input type="email" class="form-control" id="exampleInputEmail1" aria-
describedby="emailHelp" placeholder="Enter email">
    <small id="emailHelp" class="form-text text-muted">We'll never share your email
with anyone else.</small>
  </div>
  <div class="form-group">
    <label for="exampleInputPassword1">Password</label>
    <input type="password" class="form-control" id="exampleInputPassword1"
placeholder="Password">
  </div>
  <div class="checkbox">
    <label>
      <input type="checkbox"> Check me out
    </label>
  </div>
  <button type="submit" class="btn btn-primary">Submit</button>
</form>
```

Buttons

```
.btn Needs to be added to all buttons because it adds padding and margin
.btn-* primary, secondary, success, danger, warning, info, light, dark, link
.btn-outline-* primary, secondary, success, danger, warning, info, light, dark, link

.btn-lg Large buttom
.btn-sm Smaller than default button
```

Example

```
<a class="btn btn-primary" href="#" role="button">Link</a>
<button class="btn btn-secondary" type="submit">Button</button>
```

BootstrapCreative

Carousel

```html
<div id="carousel-name" class="carousel slide" data-ride="carousel">
  <ol class="carousel-indicators">
    <li data-target="#carousel-name" data-slide-to="0" class="active"></li>
    <li data-target="#carousel-name" data-slide-to="1"></li>
    <li data-target="#carousel-name" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner" role="listbox">
    <div class="carousel-item active">
      <img class="d-block img-fluid" src="https://dummyimage.com/900x340/563d7c/
fff&text=+" alt="First slide">
        <div class="carousel-caption d-none d-md-block">
          <h3>Carousel Slider Title</h3>
          <p>Description text to further describe the content of the slide image</p>
          <a href="" class="btn btn-primary">Call to Action</a>
        </div>
    </div>
    <div class="carousel-item">
      <img class="d-block img-fluid" src="https://dummyimage.com/900x340/563d7c/
fff&text=+" alt="Third slide">
        <div class="carousel-caption d-none d-md-block">
          <a href="" class="btn btn-primary">Call to Action</a>
        </div>
    </div>
  </div>
  <a class="carousel-control-prev" href="#carousel-name" role="button" data-
slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="carousel-control-next" href="#carousel-name" role="button" data-
slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```

Bootstrap 4

Jumbotron

```
<div class="jumbotron jumbotron-fluid">
  <div class="container">
    <h1 class="display-3">Fluid jumbotron</h1>
    <p class="lead">This is a modified jumbotron that occupies the entire horizontal
space of its parent.</p>
  </div>
</div>
```

Card

```
<div class="card" style="width: 20rem;">
  <img class="card-img-top w-100" src="https://dummyimage.com/600x400/563d7c/fff"
alt="Card image cap" >
  <div class="card-body">
    <h4 class="card-title">Card title</h4>
    <p class="card-text">Some quick example text to build on the card title and make up
the bulk of the card's content.</p>
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>
```

Breadcrumbs

```
<ol class="breadcrumb">
  <li><a href="#">Home</a></li>
  <li><a href="#">Library</a></li>
  <li class="active">Data</li>
</ol>
```

Responsive embed

```
<div class="embed-responsive embed-responsive-16by9">
  <iframe class="embed-responsive-item" src="..."></iframe>
</div>
```

Tables

```html
<table class="table">
  <thead class="thead-dark">
    <tr>
      <th>#</th>
      <th>thead-dark</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Nina</td>
    </tr>
  </tbody>
</table>

<table class="table">
  <thead class="thead-light">
    <tr>
      <th>#</th>
      <th>thead-light</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Nina</td>
    </tr>
  </tbody>
</table>
```
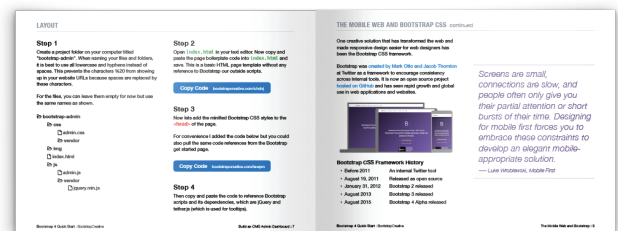
Bootstrap 4

Component CSS Format and Media Queries

```css
/*
 * Component section heading
 *
 * Component description and use
 */

/* base - shared styles */
.component { width: 220px; }

/* Sub-component with component name as a prefix to isolate styles and
break the cascade. */

.component-heading {
  display: block;
  width: 100px;
  font-size: 1rem;
}

/* variant - alert color */
.component-alert {
  color: #ff0000;
}

/* variant - success color */
.component-success {
  color: #00ff00;
}

/* Add media queries below components instead of a separate stylesheet
or section to make updating easier */

@media (min-width: 480px) {
   .component-heading { width:auto; }
}
```

Alphabetical Index of CSS Classes

.active

.accordion

.alert

.alert-(primary, secondary, success, danger, warning, info, light, dark)

.alert-dismissible

.alert-heading

.alert-link

.align-(baseline, top, middle, bottom, text-top, text-bottom)

.align-content-(sm, md, lg, xl)-(around, between, center, end, start, stretch)

.align-items-(sm, md, lg, xl)-(baseline, center, end, start, stretch)

.align-self-(sm, md, lg, xl)-(auto, baseline, center, end, start, stretch)

.arrow

.badge

.badge-(primary, secondary, success, danger, warning, info, light, dark)

.badge-pill

.bg-(primary, secondary, success, danger, warning, info, light, dark, transparent, white)

.blockquote

.blockquote-footer

.border-(light, dark primary, secondary, transparent, white, warning, success, info, danger, 0, top-0, right-0, bottom-0, left-0)

.border-(bottom, left, right, top)

.breadcrumb

.breadcrumb-item

.bs-popover-(auto, bottom, left, right, top)

.bs-tooltip-(auto, bottom, left, right, top)

.btn

.btn-block

.btn-group

.btn-group-(sm, lg)

.btn-group-toggle

.btn-group-vertical

.btn-(sm, lg)

.btn-link

.btn-outline-(primary, secondary, success, danger, warning, info, light, dark)

.btn-(primary, secondary, success, danger, warning, info, light, dark)

.btn-toolbar

.card

.card-body

.card-columns

.card-deck

.card-footer

.card-group

.card-header

.card-header-pills

.card-header-tabs

.card-img

.card-img-bottom

.card-img-overlay

.card-img-top

.card-link

.card-subtitle

.card-text

.card-title

.carousel

.carousel-caption

Bootstrap 4

.carousel-control-(next, prev)

.carousel-control-(next, prev)-icon

.carousel-fade

.carousel-indicators

.carousel-inner

.carousel-item

.carousel-item-(left, right)

.carousel-item-(next, prev)

.clearfix

.close

.col

.col-(sm, md, lg, xl)-(1-12)

.col-auto

.col-form-label

.col-form-label-(sm, lg)

.collapse

.collapsing

.container

.container-fluid

.custom-checkbox

.custom-control

.custom-control-inline

.custom-control-input

.custom-control-label

.custom-file

.custom-file-control

.custom-file-input

.custom-file-label

.custom-radio

.custom-range

.custom-select

.custom-select-(sm, lg)

.d-(sm, md, lg, xl)-(none, inline, inline-block, block, table, table-cell, table-row, flex, inline-flex)

.d-print-(block, inline, inline-block, none, flex, inline-flex, table, table-

cell, print-table-row)

.disabled

.display-(1, 2, 3, 4)

.dropdown

.dropdown-divider

.dropdown-header

.dropdown-item

.dropdown-item-text

.dropdown-menu

.dropdown-menu-right

.dropdown-toggle

.dropdown-toggle-split

.dropleft

.dropright

.dropup

.embed-responsive

.embed-responsive-(16by9, 1by1, 21by9, 4by3)

.embed-responsive-item

.fade

.figure

.figure-caption

.figure-img

.fixed-bottom

.fixed-top

.flex-(sm, md, lg, xl)-(row, row-reverse, column)

.flex-(sm, md, lg, xl)-(nowrap, wrap, wrap-reverse)

.flex-column

.flex-column-reverse

.flex-fill

.flex-grow-*

.flex-shrink-*

.float-(sm, md, lg, xl)-(none, left, right)

.focus

.font-italic

.font-weight-(bold, light, normal)

.form-check

.form-check-inline

.form-check-input

.form-check-label

.form-control

.form-control-file

.form-control-(sm, lg)

.form-control-plaintext

.form-control-range

.form-group

.form-inline

.form-row

.form-text

.h-(100, 75, 50, 25, auto)

.(h1-h6)

.img-fluid

.img-thumbnail

.initialism

.input-group

.input-group-append

.input-group-(sm, lg)

.input-group-prepend

.input-group-text

.invalid-feedback

.invalid-tooltip

.invisible

.is-invalid

.is-valid

.jumbotron

.jumbotron-fluid

.justify-content-(sm, md, lg, xl)-(start, end, center, between, around)

.lead

.list-group

.list-group-flush

.list-group-item

.list-group-item-action

.list-group-item-(primary, secondary, success, danger, warning, info, light, dark)

.list-inline

.list-inline-item

.list-unstyled

.m(t,b,r,l,x,y)-(sm, md, lg, xl)-(0, 1, 2, 3, 4, 5)

.mark

.media

.media-body

.mh-100

.modal

.modal-backdrop

.modal-body

.modal-content

.modal-dialog

.modal-dialog-centered

.modal-footer

.modal-header

.modal-(sm, lg)

.modal-open

.modal-scrollbar-measure

.modal-title

.nav

.nav-fill

.nav-item

.nav-justified

.nav-link

.nav-pills

.nav-tabs

.navbar

.navbar-brand

Bootstrap 4

.navbar-collapse

.navbar-(dark, light)

.navbar-expand-(sm, md, lg, xl)

.navbar-nav

.navbar-text

.navbar-toggler

.navbar-toggler-icon

.no-gutters

.offset-(sm, md, lg, xl)-(1-12)

.order-(sm, md, lg, xl)-first

.order-(sm, md, lg, xl)-last

.order-(sm, md, lg, xl)-(0-12)

.p(t,b,r,l,x,y)-(sm, md, lg, xl)-(0, 1, 2, 3, 4, 5)

.page-item

.page-link

.pagination

.pagination-(sm, lg)

.popover

.popover-body

.popover-header

.position-(absolute, fixed, relative, static, sticky)

.pre-scrollable

.progress

.progress-bar

.progress-bar-animated

.progress-bar-striped

.rounded

.rounded-(top, right, bottom, left, circle, 0)

.rounded-circle

.row

.shadow-(none, sm, lg)

.show

.small

.sr-only

.sr-only-focusable

.tab-content

.tab-pane

.table

.table-active

.table-bordered

.table-borderless

.table-hover

.table-(primary, secondary, success, danger, warning, info, light, dark)

.table-responsive-(sm, md, lg, xl)

.table-sm

.table-striped

.text-(primary, secondary, success, danger, warning, info, light, dark, muted, white)

.text-hide

.text-justify

.text-(sm, md, lg, xl)-(center, left, right)

.text-(lowercase, uppercase, capitalize, black-50, body, monospace, white-50)

.text-nowrap

.text-truncate

.text-warning

.thead-dark

.thead-light

.tooltip

.tooltip-inner

.valid-feedback

.valid-tooltip

.visible

.w-(100, 75, 50, 25)

.was-validated

.w-auto

Convert Pixels to REMS

Pixels	REMS	Pixels	REMS
1 px	0.0625	26	1.625
2 px	0.125	27	1.6875
3 px	0.1875	28	1.75
4 px	0.25	29	1.8125
5 px	0.3125	30	1.875
6 px	0.375	31	1.9375
7 px	0.4375	32	2
8 px	0.5	33	2.0625
9 px	0.5625	34	2.125
10 px	0.625	35	2.1875
11 px	0.6875	36	2.25
12 px	0.75	37	2.3125
13 px	0.8125	38	2.375
14 px	0.875	39	2.4375
15 px	0.9375	40	2.5
Default Bootstrap 4 font size 16 px	1	41	2.5625
17 px	1.0625	42	2.625
18 px	1.125	43	2.6875
19 px	1.1875	44	2.75
20 px	1.25	45	2.8125
21 px	1.3125	46	2.875
22 px	1.375	47	2.9375
23 px	1.4375	48	3
24 px	1.5	49	3.0625
25 px	1.5625	50	3.125

Bootstrap 4

Multiples of Common Units of Measure

Multiples of 15		Multiples of 30	
15	405	30	810
30	420	60	840
45	435	90	870
60	450	120	900
75	465	150	930
90	480	180	960
105	495	210	990
120	510	240	1020
135	525	270	1050
150	540	300	1080
165	555	330	1110
180	570	360	1140
195	585	390	1170
210	600	420	1200
225	615	450	1230
240	630	480	1260
255	645	510	1290
270	660	540	1320
285	675	570	1350
300	690	600	1380
315	705	630	1410
330	720	660	1440
345	735	690	1470
360	750	720	1500
375	765	750	1530
390	780	780	1560

Resources

Design Inspiration

- **Bootstrap Expo**
  https://expo.getbootstrap.com/
- **Built With Bootstrap**
  http://builtwithbootstrap.com/
- **Wrap Bootstrap**
  https://wrapbootstrap.com/
- **Official Bootstrap Themes**
  https://themes.getbootstrap.com/
- **AWWWARDS**
  https://www.awwwards.com/websites/
  responsive-design/
- **Media Queries**
  https://mediaqueri.es/
- **Pattern Tap**
  http://zurb.com/patterntap
- **CodePen Pattern Library**
  http://codepen.io/patterns/
- **Building Blocks**
  http://foundation.zurb.com/building-blocks/

HTML Reference

- **Mozilla HTML Reference**
  https://developer.mozilla.org/en-US/
  docs/Web/HTML
- **HTMLReference.io**
  https://htmlreference.io/

CSS Reference

- **Mozilla CSS Reference**
  https://developer.mozilla.org/en-US/
  docs/Web/CSS/Reference
- **CSS-Tricks Almanac**
  https://css-tricks.com/almanac/
- **Can I Use?**
  https://caniuse.com/
- **CSSreference.io**
  https://cssreference.io/

JavaScript Reference

- **Mozilla JavaScript Reference**
  https://developer.mozilla.org/en-US/
  docs/Web/JavaScript/Reference
- **jQuery Documentation**
  https://api.jquery.com/

Bootstrap Reference

- **Bootstrap 4 Classes Reference**
  https://bootstrapcreative.com/resources/bootstrap-4-css-classes-index/
- **Bootstrap 3 Classes Reference**
  https://bootstrapcreative.com/resources/bootstrap-3-css-classes-index/
- **Official Bootstrap Documentation**
  http://getbootstrap.com/
- **Bootsnip - Bootstrap Code Snippets**
  https://bootsnipp.com/

Want to improve the design of your website or web application?

Learning HTML and CSS is a lot more challenging than it used to be. Responsive web design adds more layers of complexity to design and develop websites. In this book, you will become familiar with the new cards component, using the new flexbox grid layout, customizing the look and feel, how to follow the mobile-first development workflow, and more!
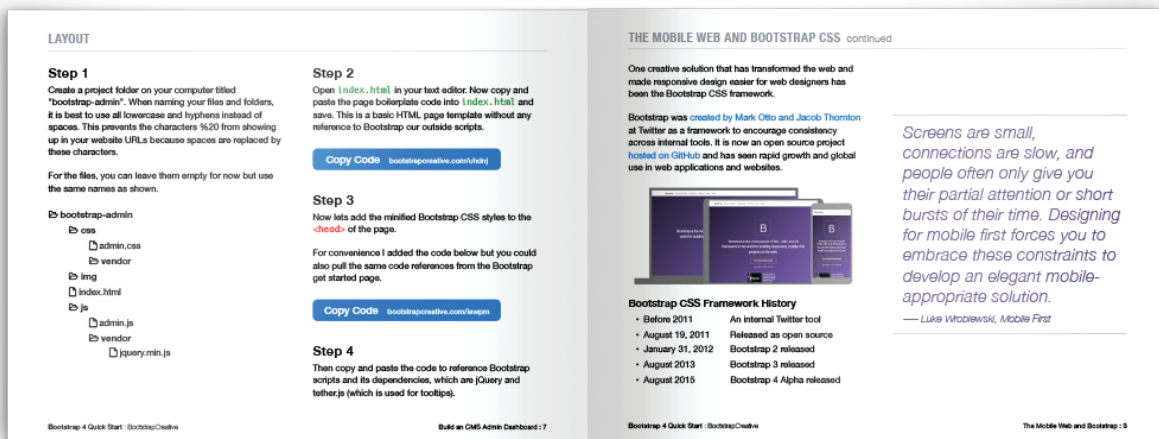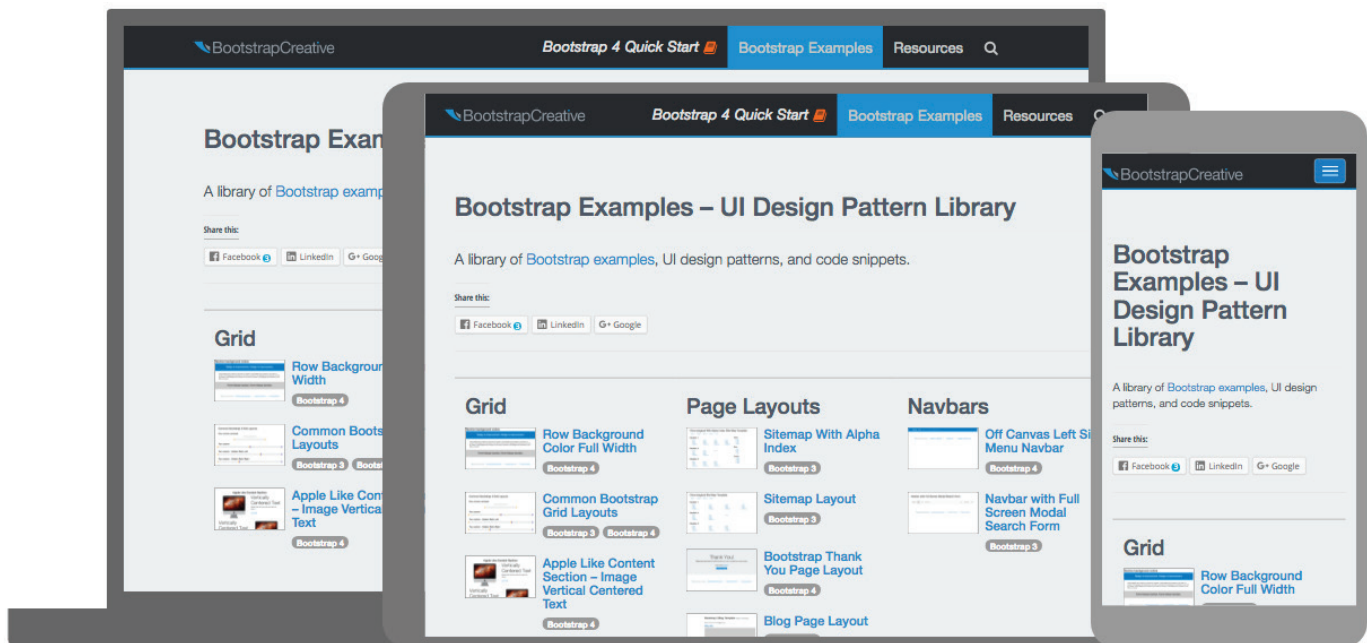
Bootstrap Snippets and UI Examples Library

A collection of code snippets to help you quickly customize components.
Includes the necessary HTML, CSS, and JS you need to implement in your project.

https://bootstrapcreative.com/pattern/

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