BOOTSTRAP 4

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1. INTRODUCTION

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1.1. BOOTSTRAP INTRO.

- The world's most popular framework for building responsive, mobile-first sites.

- Bootstrap is a front-end framework

  – A responsive grid system

  – UI elements such as pop-ups, buttons, …

  – Reusable classes to help style our content

  – Don't need to worry about browser compatibility

  – Many other things too

1.2. QUICK START

- Use BootstrapCDN or download distribution files
- CSS

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" 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/1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>
```

1.3. 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="css/bootstrap.min.css">
  </head>
  <body>
    <h1>Hello, world!</h1>
    <!-- jQuery first, then Bootstrap JS -->
    <script src="js/jquery-3.3.1.min.js"></script>
    <script src="js/bootstrap.bundle.min.js"></script>
    <!-- Optional JavaScript -->
  </body>
</html>
```

2. DOWNLOAD

- Compiled CSS and JS

- Source files

- BootstrapCDN

- Package managers

  - npm

  - RubyGems

  - Composer

  - NuGet

3. CONTENTS

3.1. Precompiled Bootstrap

3.2. CSS files

3.3. JS files

3.1. PRECOMPILED BOOTSTRAP

```
bootstrap/
├── css/
│   ├── bootstrap-grid.css
│   ├── bootstrap-grid.css.map
│   ├── bootstrap-grid.min.css
│   ├── bootstrap-grid.min.css.map
│   ├── bootstrap-reboot.css
│   ├── bootstrap-reboot.css.map
│   ├── bootstrap-reboot.min.css
│   ├── bootstrap-reboot.min.css.map
│   ├── bootstrap.css
│   ├── bootstrap.css.map
│   ├── bootstrap.min.css
│   └── bootstrap.min.css.map
└── js/
    ├── bootstrap.bundle.js
    ├── bootstrap.bundle.js.map
    ├── bootstrap.bundle.min.js
    ├── bootstrap.bundle.min.js.map
    ├── bootstrap.js
    ├── bootstrap.js.map
    ├── bootstrap.min.js
    └── bootstrap.min.js.map
```

3.2. CSS FILES

CSS files	Layout	Content	Components	Utilities
bootstrap.css bootstrap.min.css	Included	Included	Included	Included
bootstrap-grid.css bootstrap-grid.min.css	Only grid system	Not included	Not included	Only flex utilities
bootstrap-reboot.css bootstrap-reboot.min.css	Not included	Only Reboot	Not included	Not included

3.3. JS FILES

JS files	Popper	jQuery
bootstrap.bundle.js bootstrap.bundle.min.js	Included	Not included
bootstrap.js bootstrap.min.js	Not included	Not included

4. BROWSERS AND DEVICES

```
"browserslist": [
  "last 1 major version",
  ">= 1%",
  "Chrome >= 45",
  "Firefox >= 38",
  "Edge >= 12",
  "Explorer >= 10",
  "iOS >= 9",
  "Safari >= 9",
  "Android >= 4.4",
  "Opera >= 30"
]
```

MOBILE DEVICES

	Chrome	Firefox	Safari	Android Browser & WebView	Microsoft Edge
Android	Supported	Supported	N/A	Android v5.0+ supported	Supported
iOS	Supported	Supported	Supported	N/A	Supported
Windows 10 Mobile	N/A	N/A	N/A	N/A	Supported

DESKTOP BROWSERS

	Chrome	Firefox	Internet Explorer	Microsoft Edge	Opera	Safari
Mac	Supported	Supported	N/A	N/A	Supported	Supported
Windows	Supported	Supported	Supported, IE10+	Supported	Supported	Not supported

5. JAVASCRIPT

- Bootstrap Component
- jQuery Plugins

6. THEMING

6.1. All Colors

6.2. Theme colors

6.3. Grays

6.1. ALL COLORS

Blue	Indigo	Purple
Pink	Red	Orange
Yellow	Green	Teal
Cyan		

6.2. THEME COLORS

6.3. GRAYS