

Bootstrap

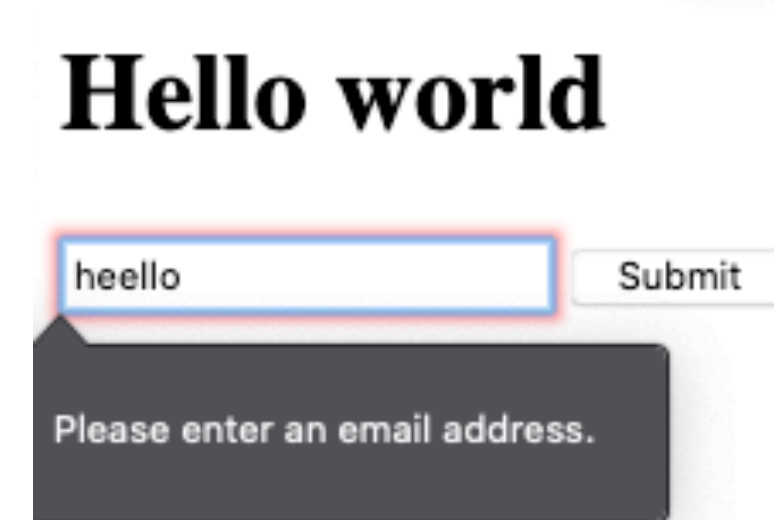
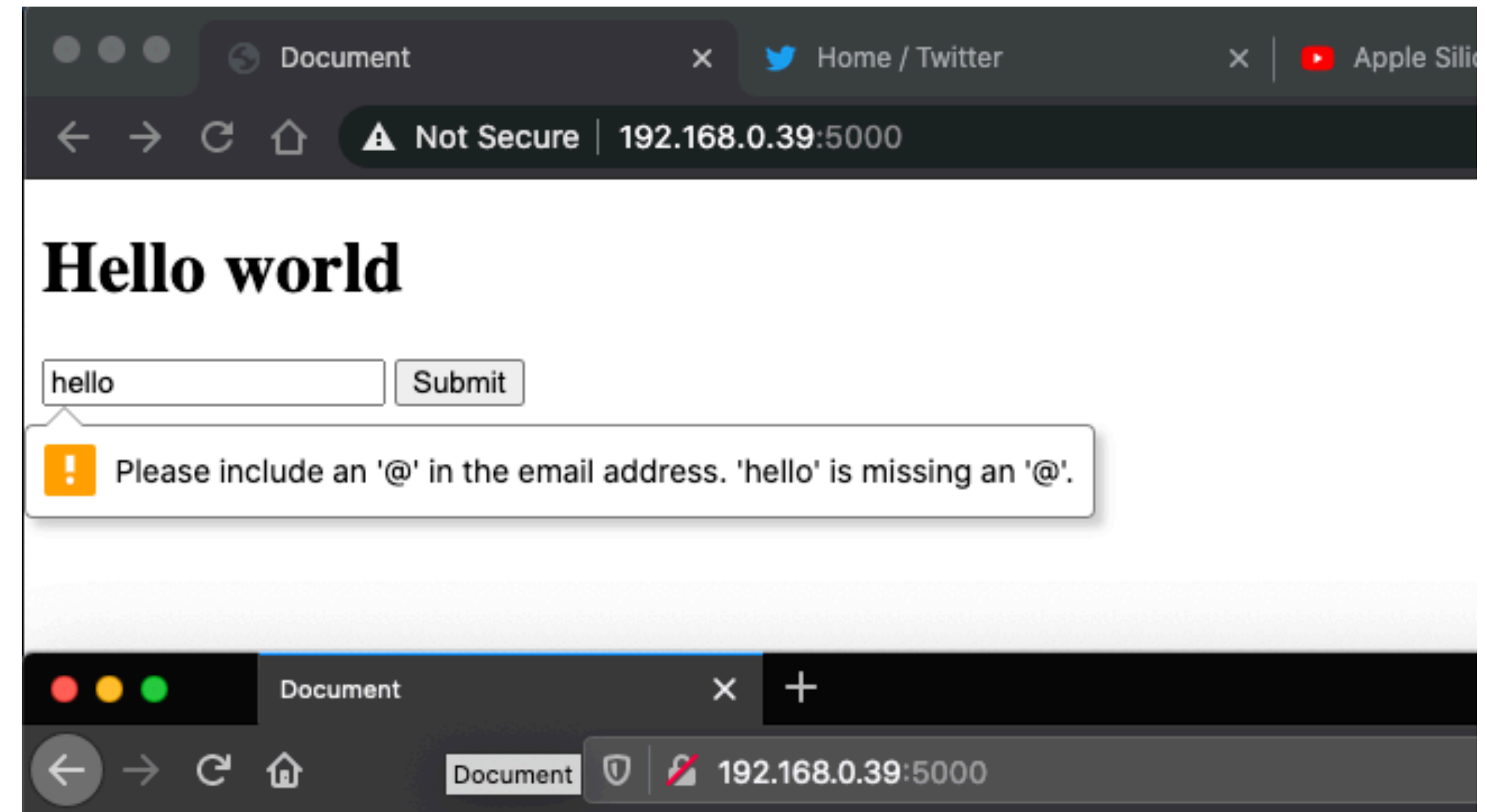
A brief introduction

Raviteja Guttula - 2020

Bootstrap is a *frontend-tool kit* with a **responsive grid system** and **prebuilt components** with powerful **javascript plugins** for building **cross browser** websites

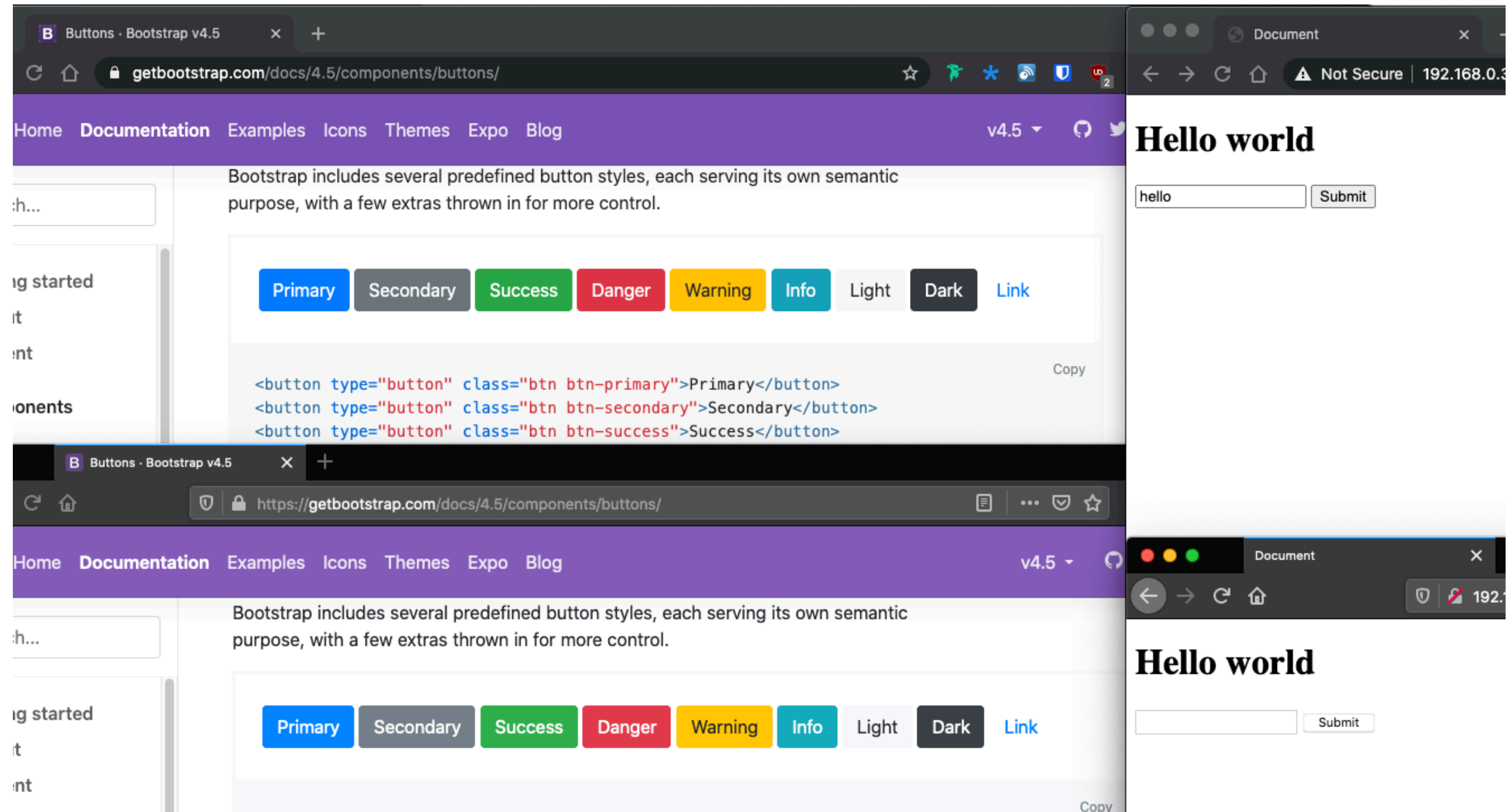
Cross browser

- Common problem in web development
 - Javascript
 - CSS
 - other categories
- We should have better handle on what and how the messages are being displayed.
- Bootstrap uses [Reboot](#) to handle these inconsistent styling across browsers.



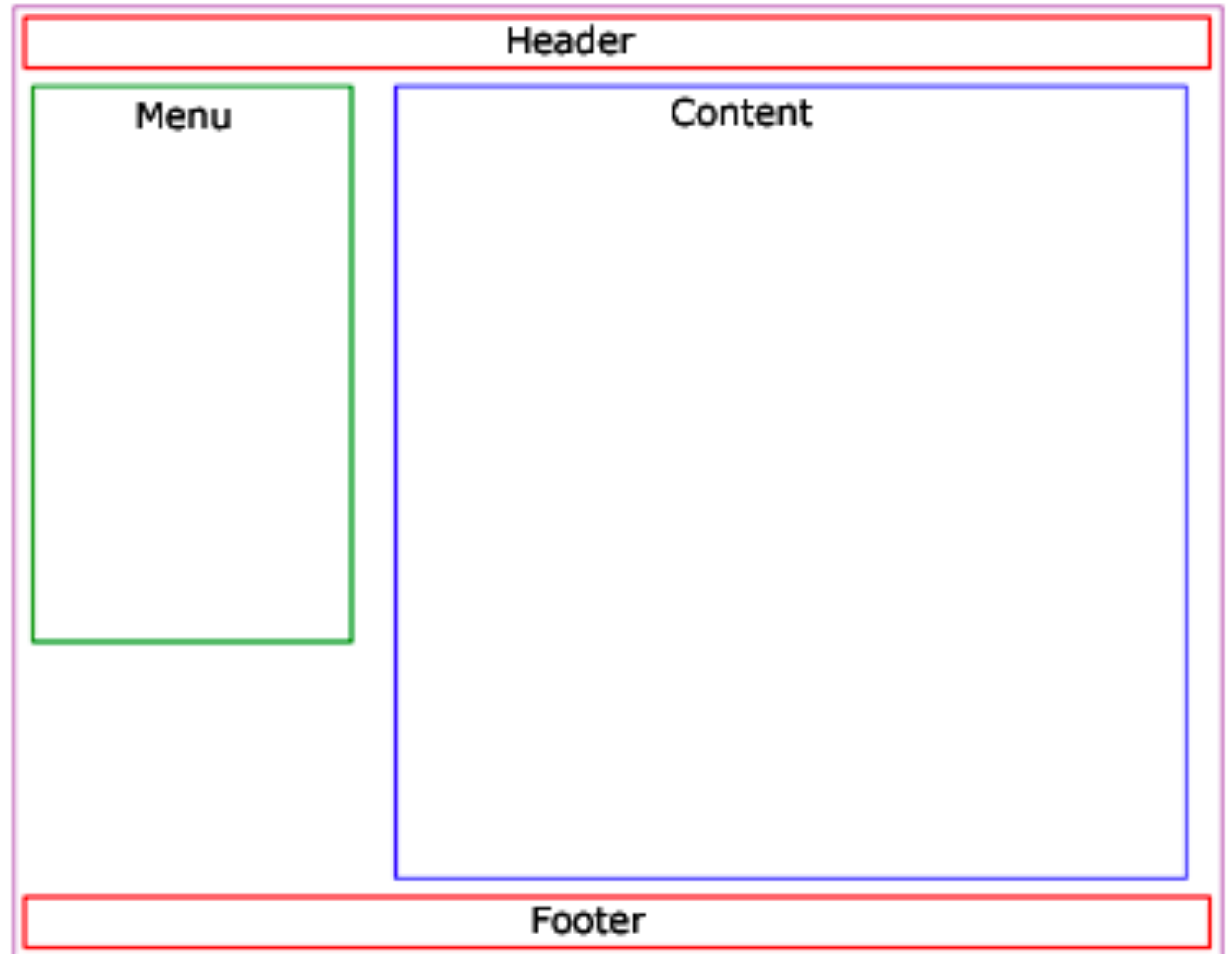
Prebuilt components

- Make the development faster
- Consistent design across pages
- cross browser styling for free.

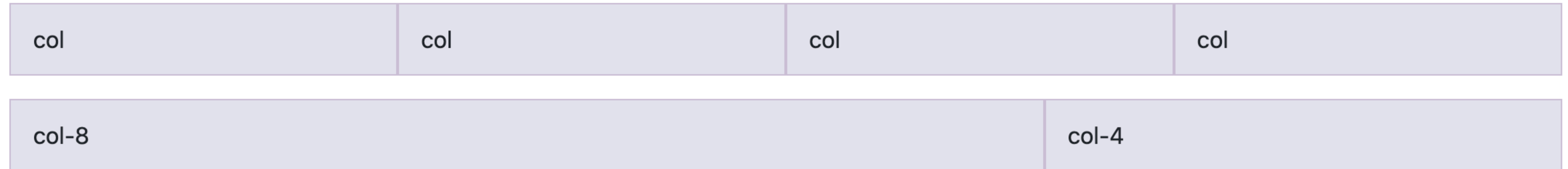


Grid layout

- Common in most of the websites
- Provides a way to divide the existing screen real estate for different components.
- Bootstrap comes with 12 column layout.



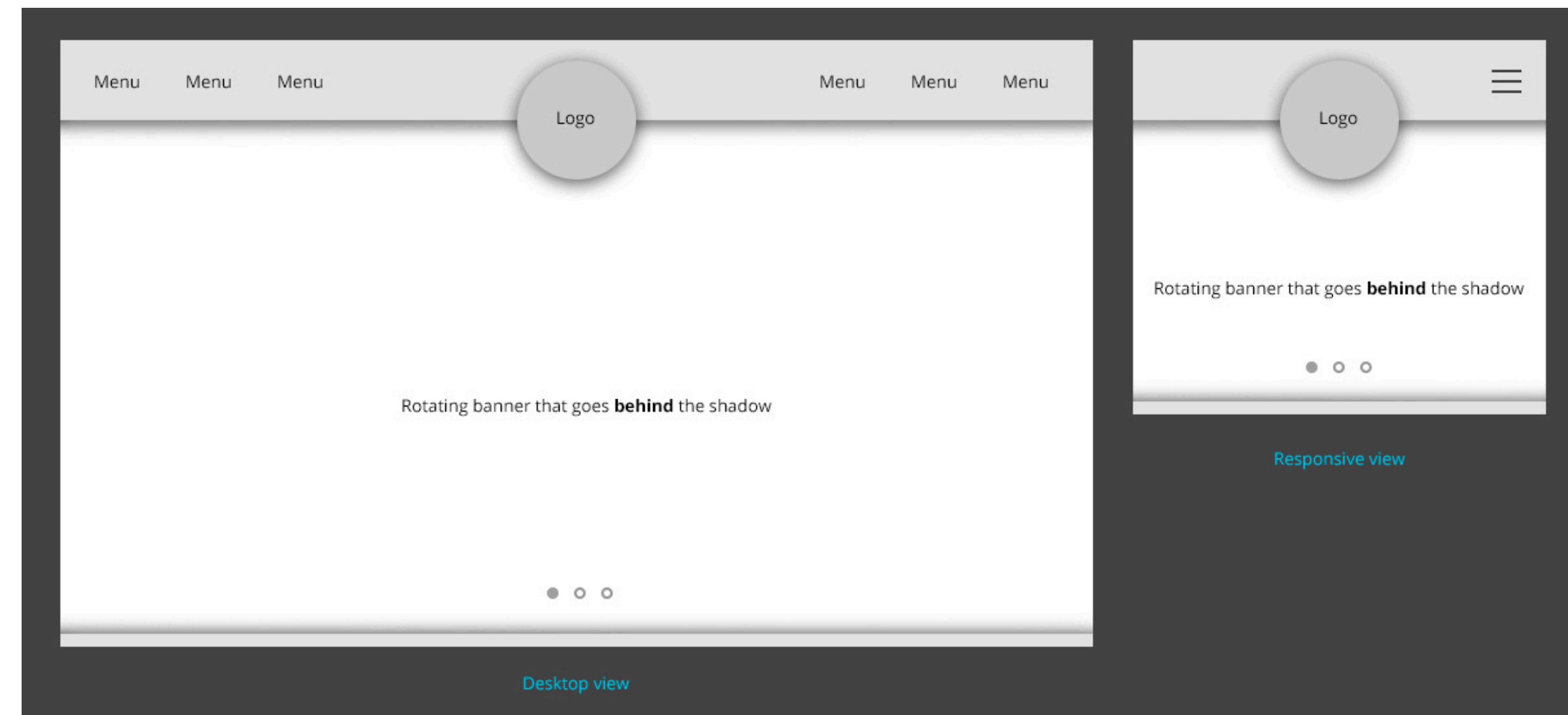
12 column layout in bootstrap



```
<div class="container">
  <div class="row">
    <div class="col">col</div>
    <div class="col">col</div>
    <div class="col">col</div>
    <div class="col">col</div>
  </div>
  <div class="row">
    <div class="col-8">col-8</div>
    <div class="col-4">col-4</div>
  </div>
</div>
```

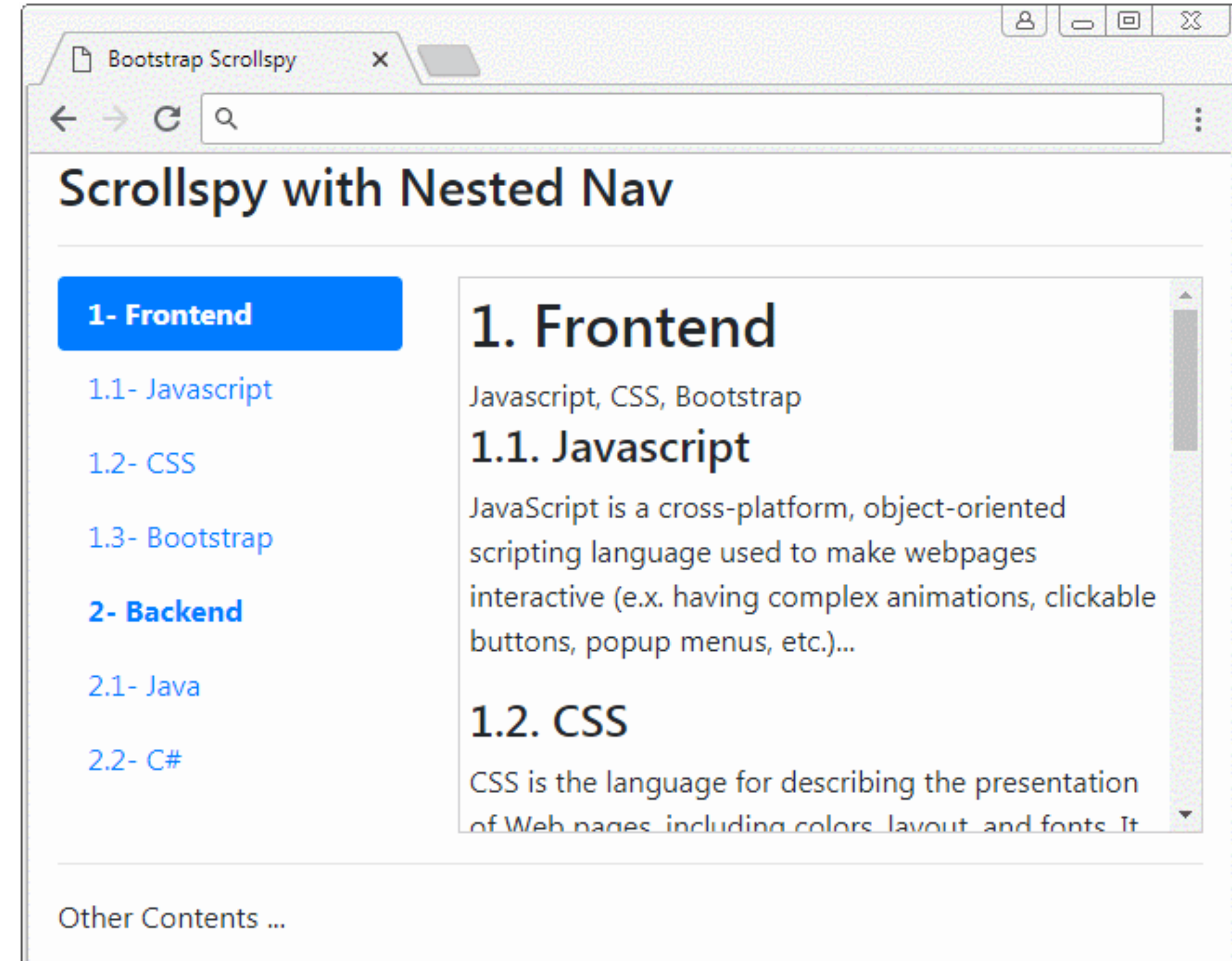
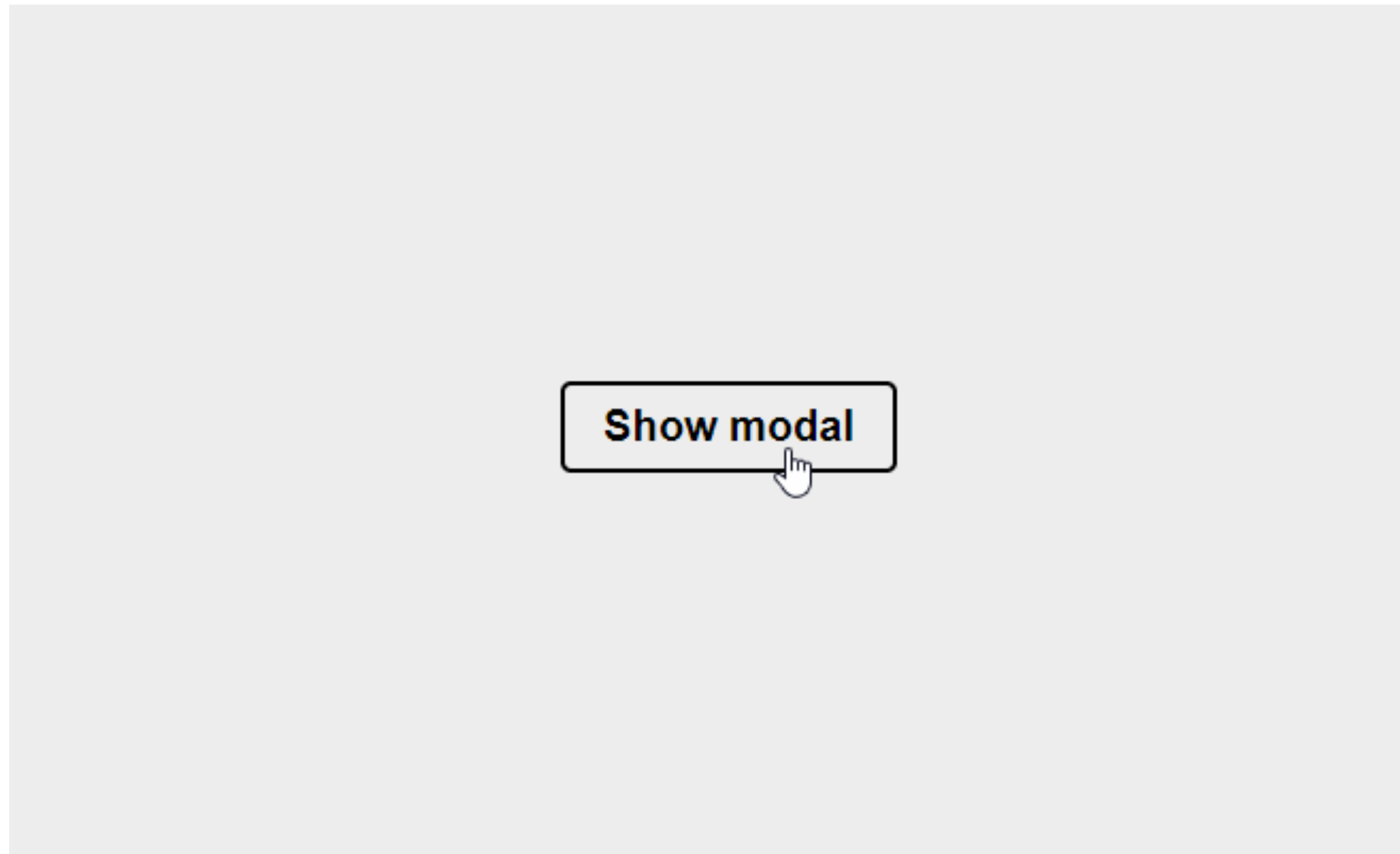
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Responsive layout



Javascript plugins

For rich interaction



How to integrate ?

Starter template

Be sure to have your pages set up with the latest design and development standards. That means using an HTML5 doctype and including a viewport meta tag for proper responsive behaviors. Put it all together and your pages should look like this:

```
<!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/4.5.0/css/bootstrap.min.css" integrity="sha384-9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYYxFfc+NcPb1dKGj7S" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

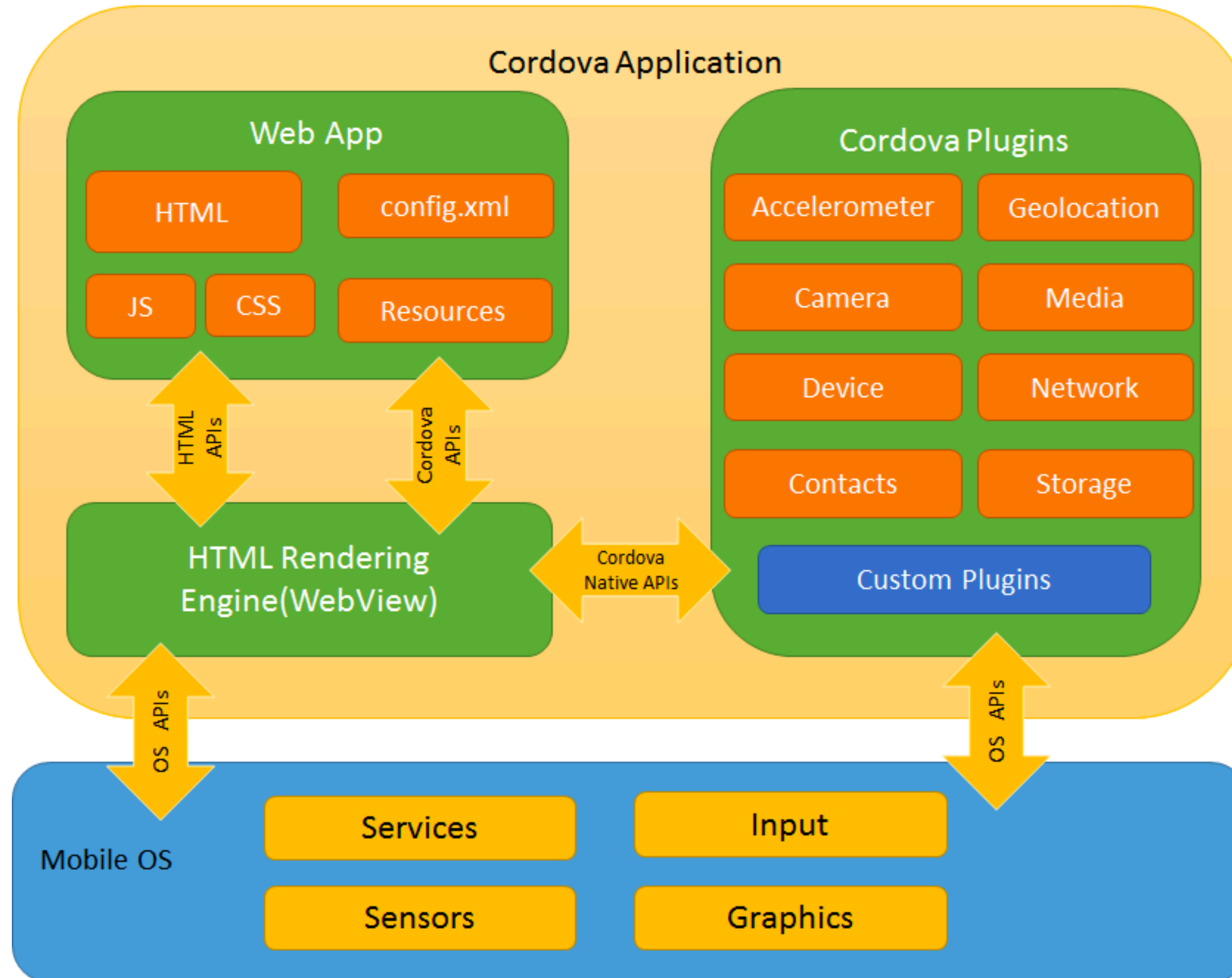
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+0rCXaRkfj" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js" integrity="sha384-0gVRvuATP1z7JjHLku0U7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI" crossorigin="anonymous"></script>
  </body>
</html>
```

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Demo, let's see some
examples...

Bootstrap, for mobile app development ?

Apache cordova



Questions ?

References

- <https://getbootstrap.com/>
- <https://getbootstrap.com/docs/4.5/examples/>
- <https://www.hsrtech.com/css/why-reboot-is-created-for-bootstrap-4-instead-of-using-normalize/>
- https://www.w3schools.com/css/css_rwd_viewport.asp
- <https://github.com/toert/Isolated-Bootstrap>
- <https://bootstrap-demo.netlify.app/>
- <https://cordova.apache.org/>
- <https://phonegap.com/>

Thank you