



Bootstrap Class Day 1

#Bootstrap Notes

| Introduction



Responsive web design

- Responsive web design is an approach to web design that makes web pages render well on a variety of devices and window or screen sizes.
- Recent work also considers the viewer proximity as part of the viewing context as an extension for RWD



Media queries

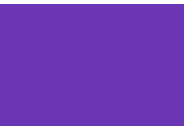
- Media queries is a feature of CSS3 allowing content rendering to adapt to different conditions such as screen resolution.
- It became a W3C recommended standard in June 2012, and is a cornerstone technology of responsive web design



Page Widths

- There are three different responsive page layouts:
- one for desktops,
- one for tablets (or laptops), and
- one for smartphones.
- Which page dimensions should you target as your cutoffs (e.g., 480px)?



- 
- 320px
 - 480px
 - 600px
 - 768px
 - 900px
 - 1024px
 - 1200px



Desktop



@media screen and
(min-width: 1024px)
{...}

Tablet



@media screen and
(min-width: 768px) and
(max-width: 1023px)
{...}

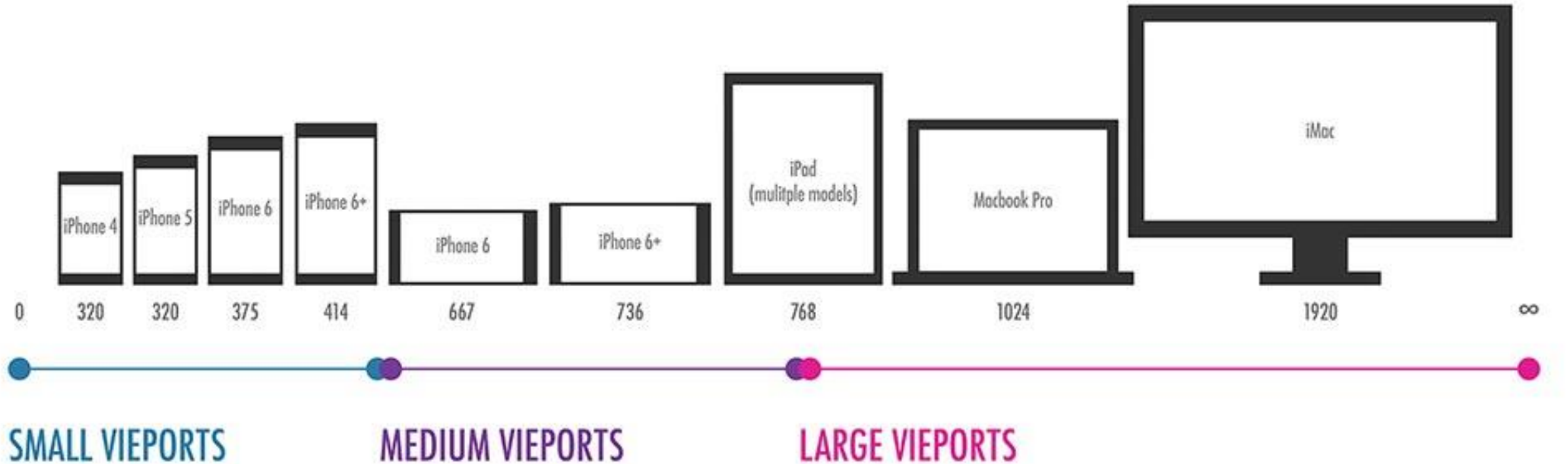
Smartphone



@media screen and
(max-width: 767px)
{...}



Responsive Breakpoints



Bootstrap 4

- **Bootstrap 4** is a front-end web development framework.
- **Front-end web development frameworks** usually cover these things: typography, forms, buttons, tables, navigation, modules, image carousels, in addition to optional JavaScript plugins.
- Bootstrap, in particular, is oriented towards **responsive web design**. This means that using Bootstrap you can easily create websites, which will look and function properly on **multiple devices**.



Advantages Of Bootstrap 4

- **Beginner-friendly:** using Bootstrap 4 requires minimal knowledge to make good use of its core elements.
- **Responsive:** this framework has components specifically oriented towards making your web applications be responsive and look good on both computers and mobile devices.
- **Mobile-first approach:** mobile device-oriented styles are part of the core framework.
- **Browser compatibility:** compatible with all major browsers.



**Bootstrap was
created at Twitter**

**Mid
2010**

**August
2011**

**Twitter released Bootstrap
as Open Source Project**

**First major release
of Bootstrap 2**

**January
2012**

**Become the most starred
GitHub development project**

**February
2012**

Bootstrap 3

**August
2013**

Bootstrap 4

**August
2017**



Founder

- Mark Otto
- Jacob Thornton at Twitter
- Released in 2011



Website

- getbootstrap.com



Creating A Basic Bootstrap 4 Web Page

- **Step 1: Add The HTML Doctype And The Basic Elements**

- `<!DOCTYPE html>`

`<html lang="en">`

`<head>`

`<meta charset="utf-8">`

`</head>`

`<body>`

`</body>`

`</html>`



Cont...

- **Step 2: Add The Viewport Meta Tag**

- `<meta name="viewport" content="width=device-width, initial-scale=1">`



Cont...

- **Step 3: Include The Bootstrap 4 CSS and JavaScript Files**
- Add the files by referencing them as described in the Download instructions



Cont...

- **Step 4: Add The Container Element**
- When developing using Bootstrap 4, it is essential to wrap the elements in a container element.
- You may choose one of the two container classes:
 - The class called **.container** will provide a responsive **fixed width container**.
 - The class called **.container-fluid** will provide a **full width container**, that spans the whole width of the viewport.



Example of container class

- An example of with a **.container** class container:
- `<div class="container">`
 `<h1>Responsive Fixed Width Container</h1>`
`</div>`

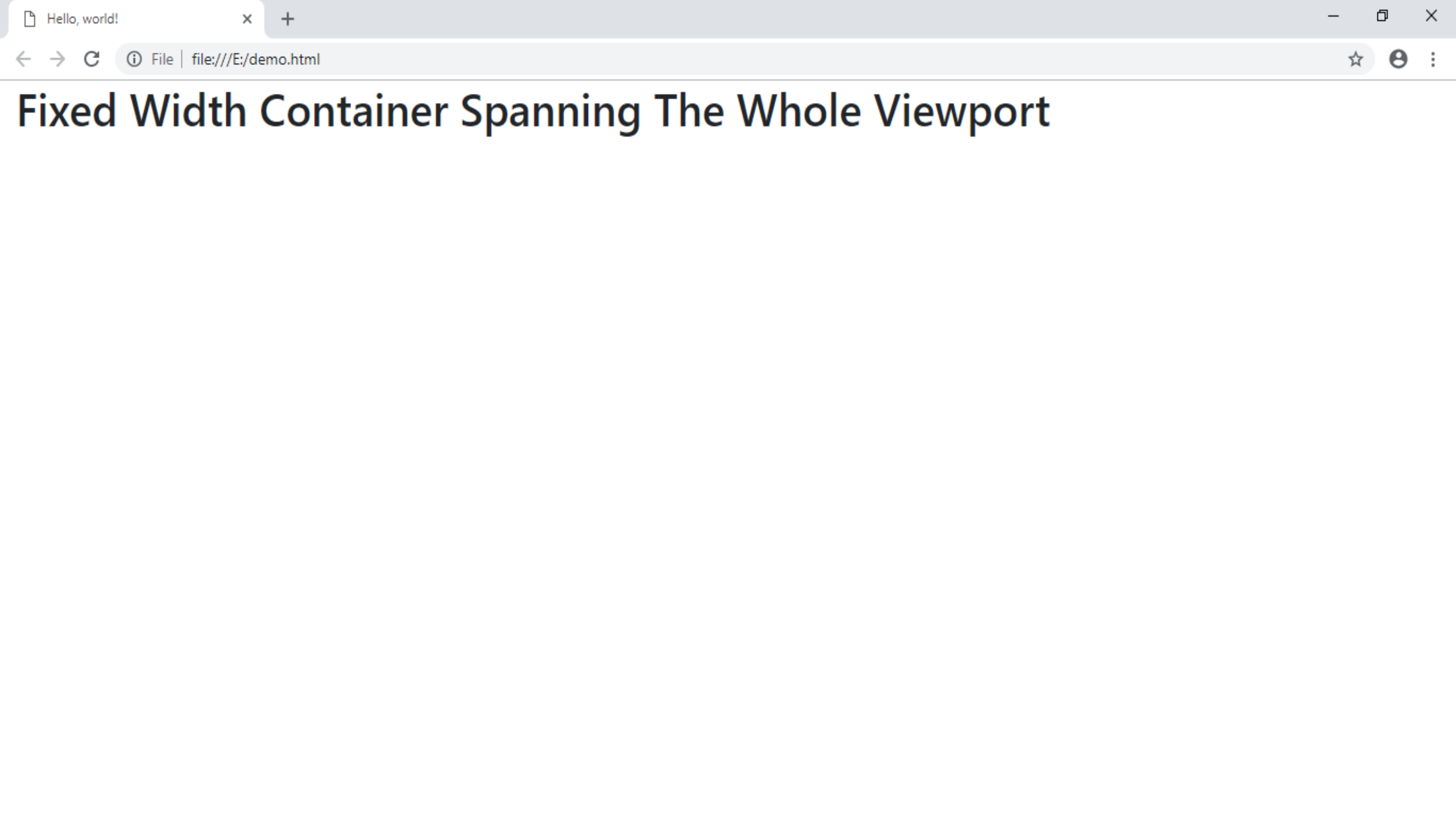


Responsive Fixed Width Container

Example of container-fluid class

- An example with a **.container-fluid** class container:
- ```
<div class="container-fluid">
 <h1>Fixed Width Container Spanning The Whole Viewport
 </h1>
</div>
```





# Fixed Width Container Spanning The Whole Viewport

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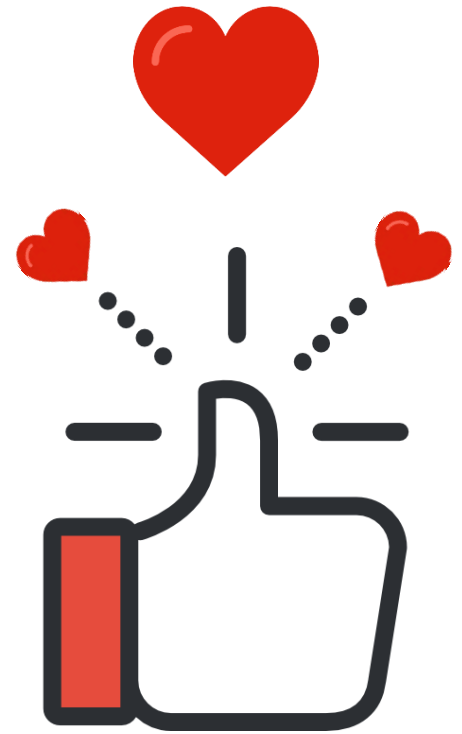
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