

# Introduction To Responsive Web Design

Using Bootstrap

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# RESPONSIVE WEB DESIGN

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CONTENT ADJUSTS TO DIFFERENT SCREEN LAYOUTS

# Desktop/Laptop



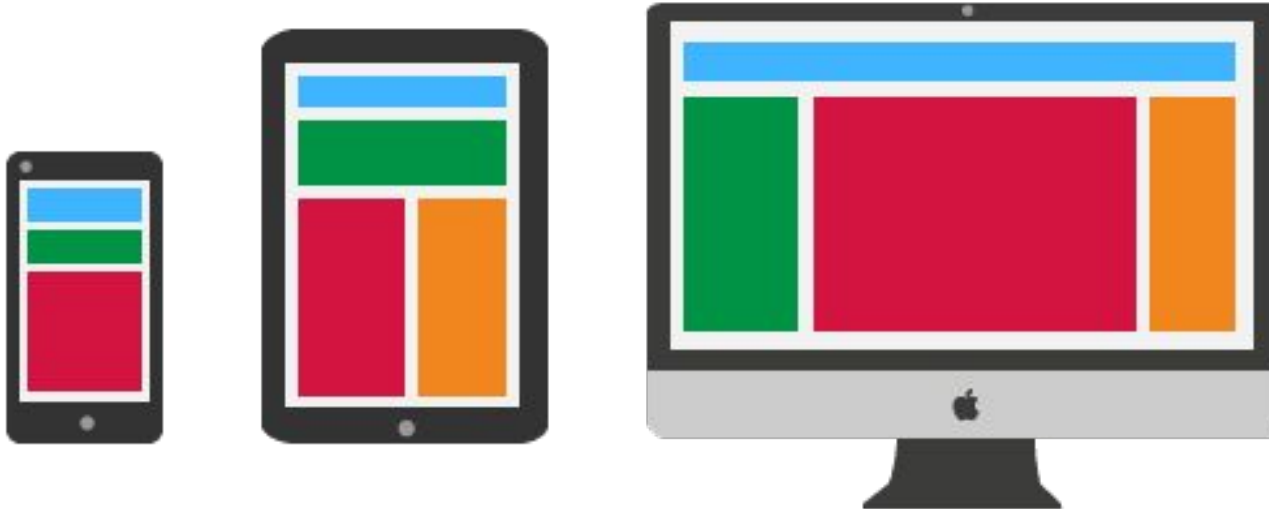
# Tablet



# Mobile



# Responsive layout





# CSS Frameworks for Responsive Web Design

- Bootstrap
- Bulma
- Materialize
- Semantic UI
- Foundation

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# BOOTSTRAP

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HOW TO BUILD RESPONSIVE WEBSITES





# Getting Started With Bootstrap

1. Installation
2. Layout
3. Content
4. Components



# Layout

- Bootstrap Grid System

This is a powerful mobile-first flexbox grid used to build layouts of all shapes and sizes. It follows a twelve column system, and dozens of predefined classes.

.container

.row

12 cols

Two equal layouts:  $12 / 2 = 6$

6 cols

6 cols

Three equal layouts:  $12 / 3 = 4$

4 cols

4 cols

4 cols

Four equal layouts:  $12 / 4 = 3$

3 cols

3 cols

3 cols

3 cols

## Dynamic layouts

8 cols

4 cols



## Screen Sizes

xs - mobile

sm - tablet

md - laptop

lg - desktop





## How To Construct a Bootstrap Grid Class

col-[screen size]-[number of cols]

Eg. col-md-4

**Now let's practise  
some Bootstrap!**

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# INSTRUCTIONS

- In your web browser, go to the official bootstrap website ([www.getbootstrap.com](http://www.getbootstrap.com))
- Select v3.4.1 from the dropdown on the navbar
- Click on download bootstrap to download a fresh copy of the bootstrap package
- Extract the contents of the bootstrap zip file and copy all of the contents (thus css, js, fonts folders)
- Create a new folder on your desktop and name it “bootstrap\_practice”
- Paste the content from the bootstrap folder to your “bootstrap\_practice” folder
- Drag the “bootstrap\_practice” folder to a new sublime text window
- Create a new html file (index.html) and code the basic html structure
- Link the bootstrap.css file in the head section of your html document
- Link the bootstrap.js file in the body of your html document. (It should be the last thing in your body tag)
- Download jQuery (v3 or above) and link it after your bootstrap.js in your body
- Create a new css file (styles.css) and link it to your html document (It should be after the bootstrap.css)
- Write code using bootstrap grid classes to build the grid layouts in the earlier slides (12, 13, 14, 15)



# Thanks!

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