

BOOTSTRAP 4

Fundamentals

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WHAT IS BOOTSTRAP 4

Bootstrap is a famous, open-source, front-end frameworks of the Web.

From its first version in 2011, a ton of changes and new features have been inserted.

Today is one of the most popular responsive frameworks for the front-end developer.

CORE PRINCIPLES

12-Column Grid & Breakpoints

Helper Classes (Styling)

Components

Functionality (JavaScript)

PROS

Quick & Easy Development

We can build upon well-crafted, responsive and well-tested code

No need to switch to CSS

Cross Browser

Common Language

Excellent Documentation

Huge Community

(StackOverflow to the rescue!)

Core Principles*

MOBILE FIRST

"Mobile first, as the name suggests, means that we start the product design from the mobile end which has more restrictions, then expand its features to create a tablet or desktop version."

Reference

Core Principles*

GRID LAYOUT

1

2

3

4

5

6

7

8

9

10

11

12

BOOTSTRAP 4 GRID SYSTEM

This is a single column.

This is the first column.

This is the second column.

This is the first
column.

This is the
second column.

This is the third
column.

This is the
fourth column.

Learn the Bootstrap 4 Grid System in 10 Minutes

Core Principles*

RESPONSIVE BREAKPOINTS

Small devices (landscape phones, 576px+ and up): `.col-sm-*`

Medium devices (tablets, 768px and up): `.col-md-*`

Large devices (desktops, 992px and up): `.col-lg-*`

Extra large devices (large desktops, 1200px and up): `.col-xl-*`

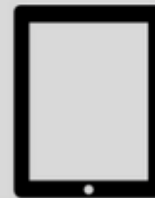
Reference



.col-xl-



.col-lg-



.col-md-



.col-sm-



.col-

ONE RULE:

RTFM



紧跟毛主席在大风大浪中前进

LET'S PRACTICE!

Visit

<https://bit.ly/2noQufs>

and follow the instructions

ENOUGH TALK. LET'S CODE!

1) VSCode > File > New Window > New file > Type ! and press Tab

2) Include Bootstrap 4 (CDN)

<https://getbootstrap.com> > Get Started

3) Open File with **Live Server** > **Ctrl + L, Ctrl + O**

Cmd + L, Cmd + O for Mac

4) Open Browser Console **F12**

CLASS DEMO FOR EXERCISE

Starter theme: The Math World

<https://bit.ly/2mE9nuC>

RESOURCES

- [Official Bootstrap Site](#)
- [Get Started](#)
- [Bootstrap 4 at W3Schools.com](#)
- [Learn Bootstrap 4 at scrimba.com](#) Highly Recommended
- [Learn the Bootstrap 4 Grid System in 10 Minutes](#)
- [How to Bootstrap 4](#)
- [Bootstrap 4: Everything You Need to Know](#)
- [Built with Bootstrap](#)

ONE TWEET FOR THE ROAD



*"If you give someone a program, you
will frustrate them for a day;
if you teach them how to program,
you will frustrate them for a lifetime."*

David Leinweber

THANK YOU FOR YOUR ATTENTION



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