Bootstrap

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What Is Bootstrap

Bootstrap is a CSS framework for quickly and easily building responsive website. It comes with a large set of tools that make rapid development fairly easy.
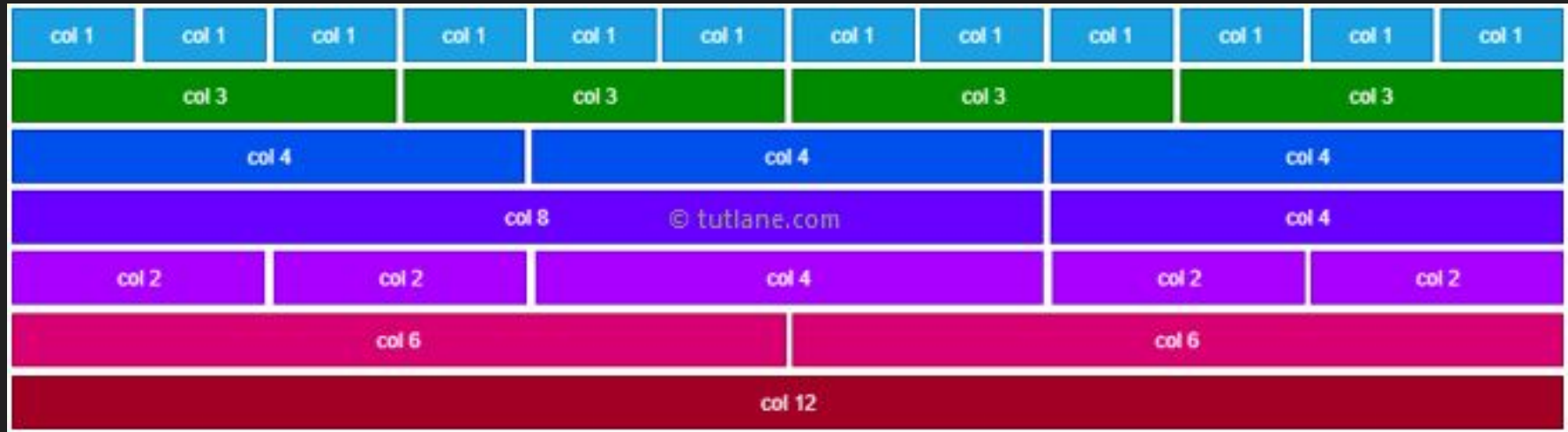
Responsive Website

Responsive design is the ability for a website to automatically change sizes from laptop, tablets to mobile phone.

Grid System

Responsive design in bootstrap is accomplished with the grid system, which separates part of the webpage into columns.
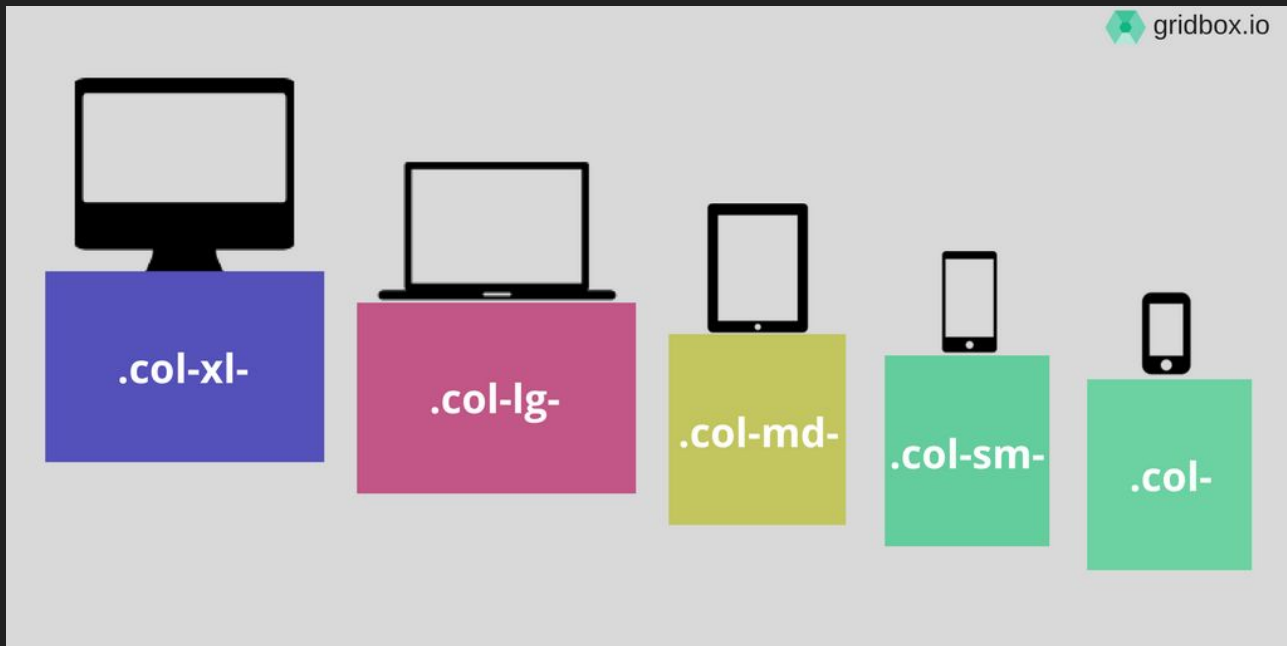
Important!!! Column Number

The number is how manys columns wide a section of the grid is. All the columns must add up to a total of 12.
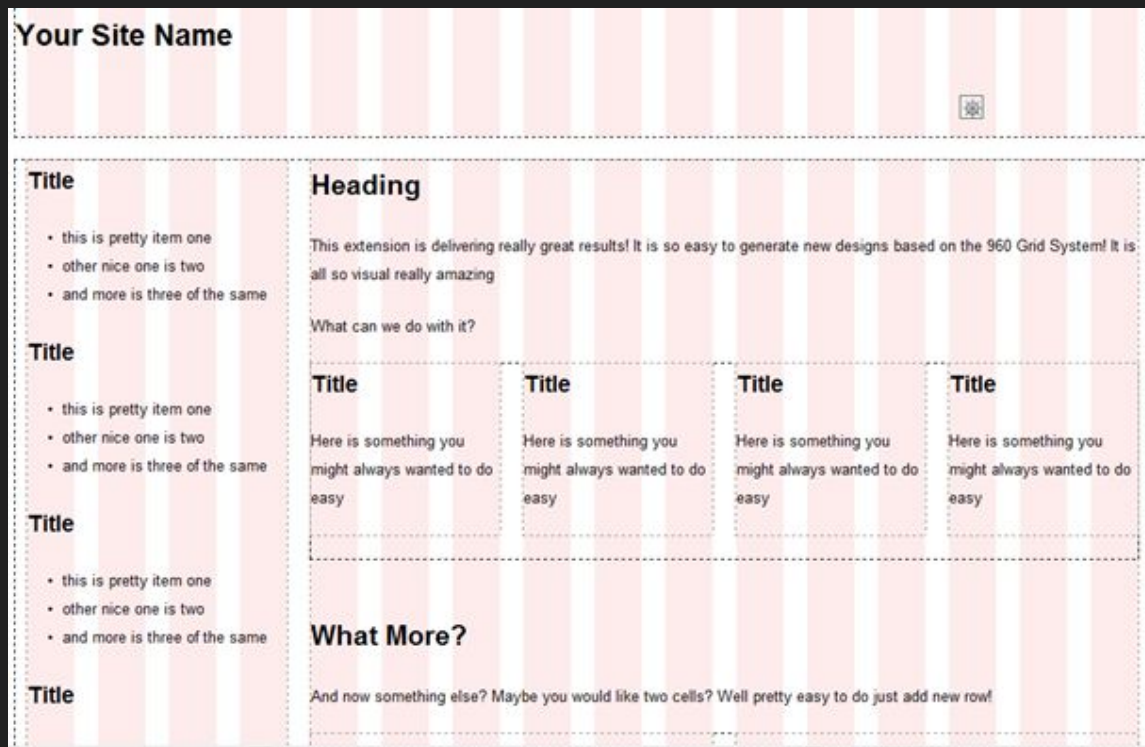
Column Sizes Correlate To Screen Size

In addition to the number, columns can be given different sizes. Sizes respond to different breakpoints that represents device screen sizes.

How The Columns Should Look

When implemented correctly, columns will define sections of a page such as the sidebar, header, main content, etc.

Linking Bootstrap

Use the Bootstrap CDN (Content

Delivery Network) to link Bootstrap CSS

into your file.

```
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@
.6.0/dist/css/bootstrap.min.css
" />
  </head>
  <body>
    // website goes here
  </body>
</html>
```

Implementing Columns

1. A column must be created inside an element with the class row
2. The columns must add up to 12

```html
<div class="row">
    <div class="col-sm-4">
        // content goes here
    </div>
    <div class="col-sm-4">
        // content goes here
    </div>
    <div class="col-sm-4">
        // content goes here
    </div>
</div>
```

Implementing Columns Example 2

Notice now we have 4 columns that add up to 12 and we changed the column size to md.

```
<div class="row">
    <div class="col-md-3">
        // content goes here
    </div>
    <div class="col-md-3">
        // content goes here
    </div>
    <div class="col-md-3">
        // content goes here
    </div>
    <div class="col-md-3">
        // content goes here
    </div>
</div>
```

Implementing Columns Example 3

You can assign multiple column sizes with the classes. This will cause the columns to react differently on different screen sizes.

Remember, each column size must add up 12.

How will these columns look for different screen sizes?

```
<div class="row">
    <div class="col-lg-4 col-md-3 col-sm-6">
        // content goes here
    </div>

    <div class="col-lg-8 col-md-9 col-sm-6">
        // content goes here
    </div>
</div>
```

Common Bootstrap Class

Next we are going to introduce common bootstrap classes and their implementation.

Container

The container is a class that is used for wrapping content. It comes with its own margins and padding that is used to created unified spacing.

```
<div class="container">
      // content goes here
</div>
```

Container Page

It is very common, and a best practice, to wrap an entire page inside a container.

```html
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@.6.0/dist/css/bootstrap.min.css" />
  </head>
  <body>
      <div class="container">
            // website goes here
      </div>
  </body>
</html>
```

Button

The container button is a commonly used element on forms. Bootstrap adds a standard button class that is often used to style them.

```
<button class="btn btn-success">
    Submit
</div>

<button class="btn btn-danger">
    Cancel
</div>
```

Form Control

Bootstrap has a special form layout that uses the classes .form-group and .form-control to style form elements.

```html
<div class="form-group">
    <label>First Name</label>
    <input class="form-control" type="text" />
</div>

<div class="form-group">
    <label>Message</label>
    <textarea class="form-control"></textarea>
</div>

<div class="form-group">
    <label>Items</label>
    <select class="form-control">
        <option>1</option>
        <option>2</option>
    </select>
</div>
```

Responsive Image

Images can be larger than the element that contains it. To make an image fit within its container, the .img-fluid class is used.

```
<img class="img-fluid" src="image.jpeg" />
```