Introduction to Bootstrap

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Web Fundamentals

B

Twitter Bootstrap

Introduction to Bootstrap

Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.

www.getbootstrap.com

Bootstrap is Front-end Framework

HTML, CSS, and JS framework for

developing responsive, mobile first projects on the web.

Bootstrap is Ready-to-use Web Elements

HTML / CSS elements for button, form, table,
image, navbar, label, progress bar, alert etc.

Designed for everyone, everywhere.

Bootstrap makes front-end web development faster and easier. It's made for folks of all skill levels, devices of all shapes, and projects of all sizes.

Preprocessors

Bootstrap ships with vanilla CSS, but its source code utilizes the two most popular CSS preprocessors, Less and Sass. Quickly get started with precompiled CSS or build on the source.

One framework, every device.

Bootstrap easily and efficiently scales your websites and applications with a single code base, from phones to tablets to desktops with CSS media queries.
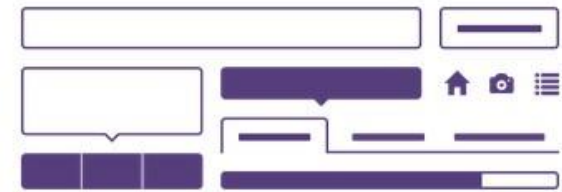
Full of features

With Bootstrap, you get extensive and beautiful documentation for common HTML elements, dozens of custom HTML and CSS components, and awesome jQuery plugins.

Bootstrap File Structure

```
bootstrap/
          ├── css/
          │        ├── bootstrap.css
          │        ├── bootstrap.min.css
          ├── js/
          │        ├── bootstrap.js
          │        ├── bootstrap.min.js
          ├── img/
          │        ├── glyphicons-halflings.png
          │        ├── glyphicons-halflings-white.png
          └── README.md
```

Basic HTML Template
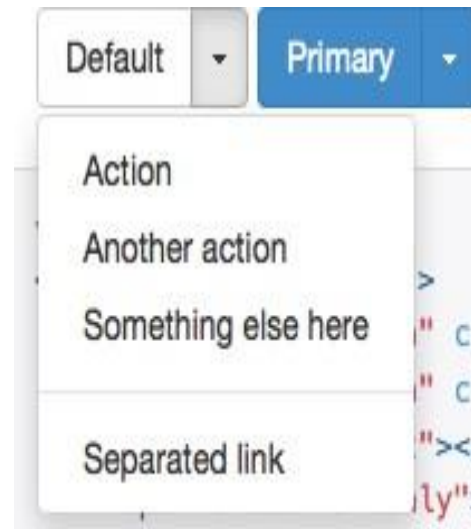
```html
<!DOCTYPE html>
<html>
        <head>
                <title>Bootstrap 101 Template</title>
        </head>
        <body>
                <h1>Hello, world!</h1>
        </body>
</html>
```

With Bootstrap, we include the link to the CSS stylesheet and the JavaScript:

```html
<!DOCTYPE html>
<html>
        <head>
                <title>Bootstrap 101 Template</title>
                <link href="css/bootstrap.min.css" rel="stylesheet">
        </head>
        <body>
                <h1>Hello, world!</h1>
                <script src="js/bootstrap.min.js"></script>
        </body>
</html>
```
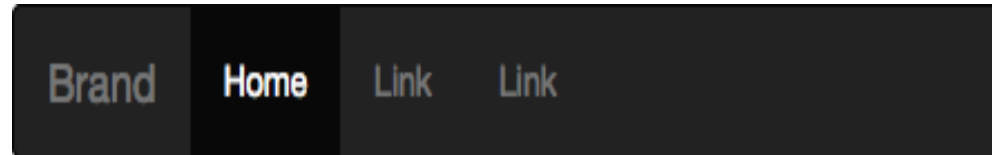
EXAMPLES
of Bootstrap Elements

more EXAMPLES
of Bootstrap Elements

♫ glyphicon glyphicon-music	🔍 glyphicon glyphicon-search	♥ glyphicon glyphicon-heart	★ glyphicon glyphicon-star
⊞ glyphicon glyphicon-th	☰ glyphicon glyphicon-th-list	✔ glyphicon glyphicon-ok	✖ glyphicon glyphicon-remove

Brand | **Home** | Link | Link

Websites created by Bootstrap

www.fliplingo.com

Why Bootstrap?

- Save 100+ hours of coding

- Easy to use web elements

- Quick responsive prototype / website

- Great documentation

Bootstrap Package

- **CSS** - bootstrap.css
- **JS** - bootstrap.js
- **Icon Fonts** - glyphicons-halflings-regular.ttf

What is Grid in web design?

Default Grid System

What is Grid in web design?

1 2 3 4 5 6 7 8 9 10 11 12
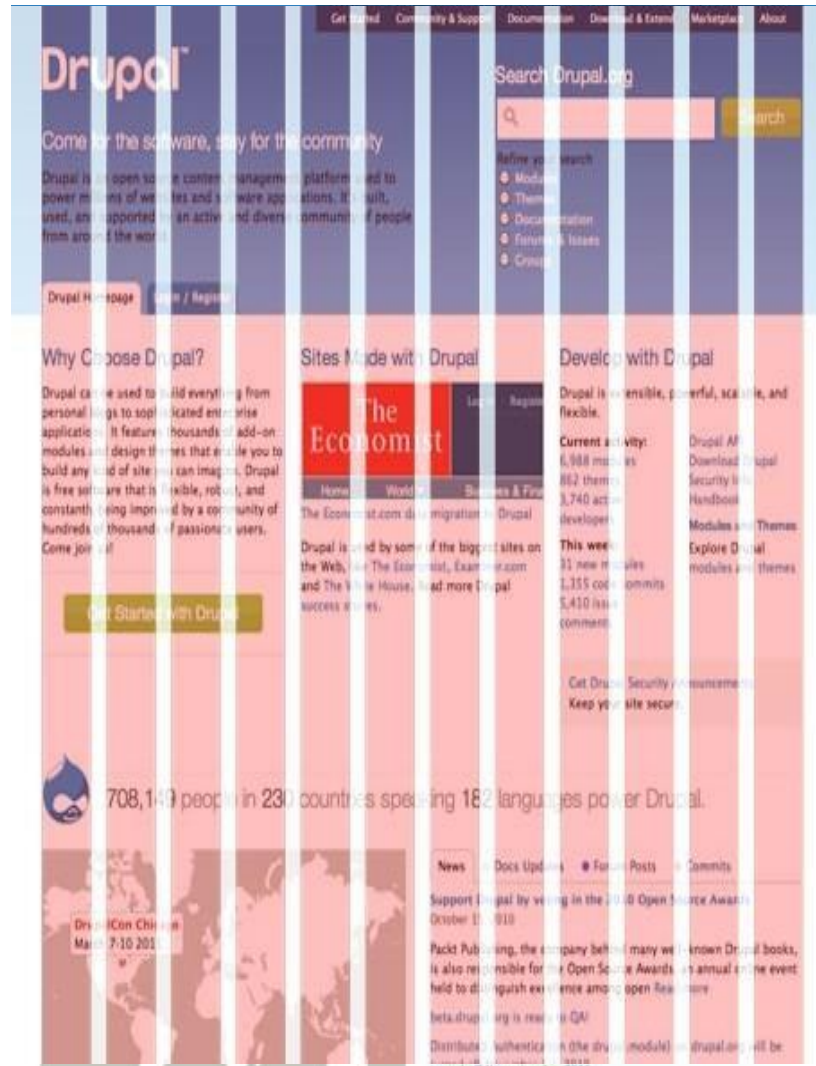
12 Grid

What is Grid in web design?

4 Grid   4 Grid   4 Grid

4 Grids x 3 Columns
= 12 Grids

Bootstrap Grid

SERVICES

Lorem ipsum dolor sit amet consectetur.

E-Commerce

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Minima maxime quam architecto quo inventore harum ex magni, dicta impedit.

Responsive Design

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Minima maxime quam architecto quo inventore harum ex magni, dicta impedit.

Web Security

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Minima maxime quam architecto quo inventore harum ex magni, dicta impedit.

12 Responsive Grid

http://bit.ly/grid-overlay

Grid Overlay

Grid displayer
for Bootstrap and Foundation

In-browser web design made easier with this bookmarklet which displays the grid of your favourite front-end framework.

Vote 2
Star 118
Tweet 249

1 Install it

For Firefox and WebKit browsers only.

↓ **Drag this button to your bookmarks bar** ↓

Grid displayer

for ☑ Bootstrap ☑ Foundation

2 Try it

Try the bookmarklet **on this page** or on the following sites:

Compatible with Foundation 2, 3, 4 & 5

Compatible with Bootstrap 2 & 3

4 Sizes of Bootstrap Grid

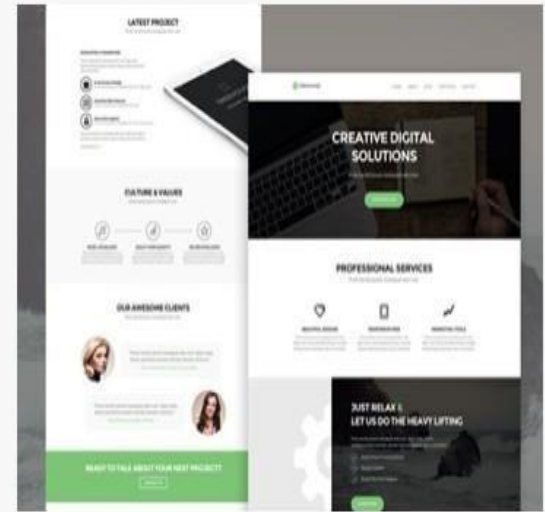| Size Name	Screen Size	CSS Class
Extra Small Devices (Phone)	0 - 767 px	.col-xs-1 ~ .col-xs-12
Small Devices (Tablet)	768 - 991 px	.col-sm-1 ~ .col-sm-12
Medium Devices (Desktop)	992 - 1219 px	.col-md-1 ~ .col-md-12
Large Devices (Large screen desktop)	1200px +	.col-lg-1 ~ .col-lg-12

Bootstrap Grid Example

http://bit.ly/bs-agency

Round Icons
Graphic Design

Startup Framework
Website Design

Treehouse
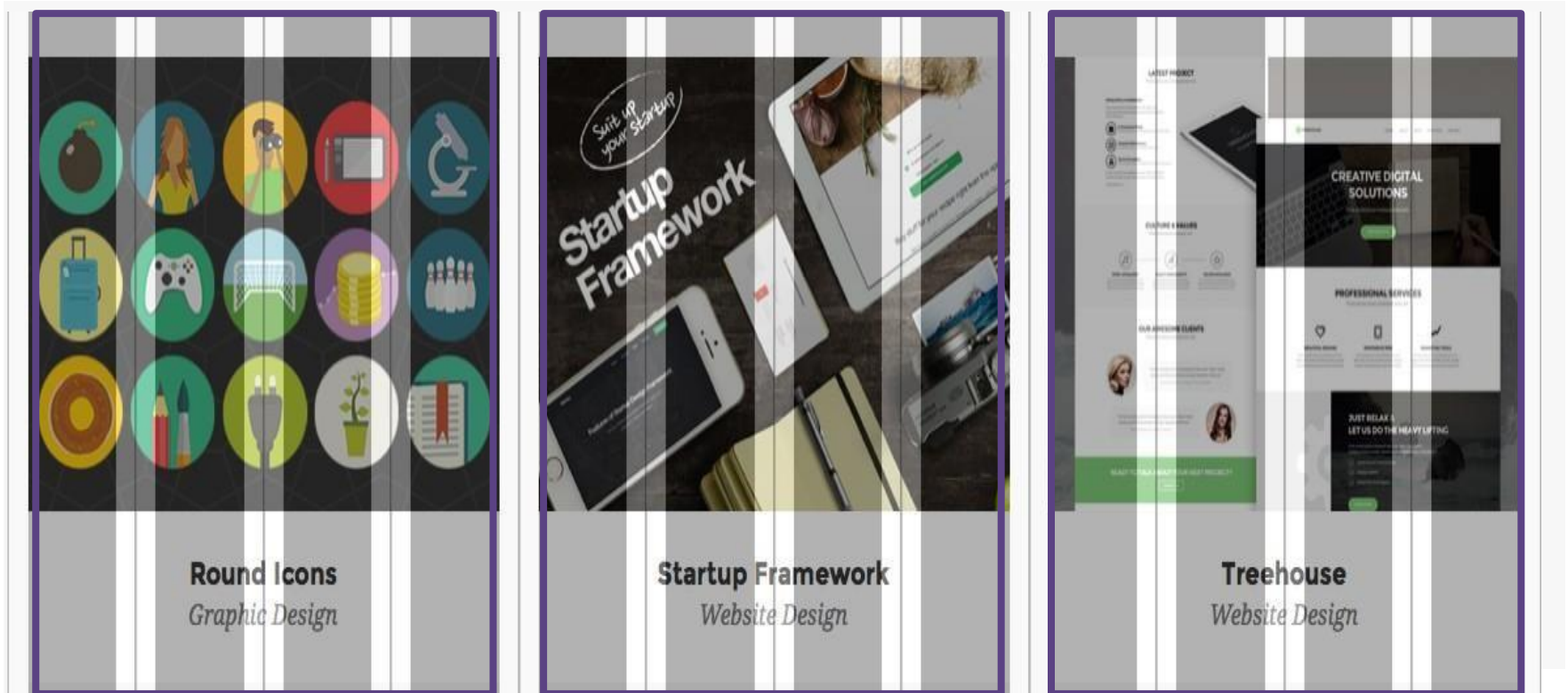*Website Design*

How many grids in each box?

Bootstrap Grid Example

4 grids x 3 Columns

Bootstrap Grid Example

```html
<div class="container">
  <div class="row">
    <div class="col-md-4">

      ...
    </div>
    <div class="col-md-4">

      ...
    </div>
    <div class="col-md-4">

      ...
    </div>
  </div><!-- row -->
</div><!-- container -->

```
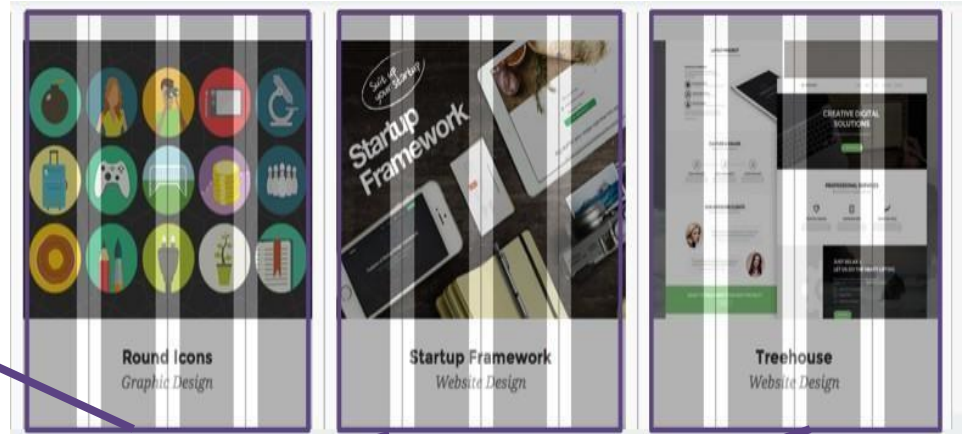
Bootstrap Grid Example

```html
<div class="container">
  <div class="row">
    <div class="col-md-4">

      ...
    </div>
    <div class="col-md-4">

      ...
    </div>
    <div class="col-md-4">

      ...
    </div>
  </div><!-- row -->
</div><!-- container -->
```

Bootstrap Grid Example 2

How many grids in each box?

Bootstrap Grid Example 2

6 grids x 2 Columns

Bootstrap Grid Example 2

```html
HTML
1  <div class="container">
2    <div class="row">
3      <div class="col-md-6">
4
         ...
5      </div>
6      <div class="col-md-6">
7
         ...
8      </div>
9    </div><!-- row -->
10 </div><!-- container -->
11
12
```
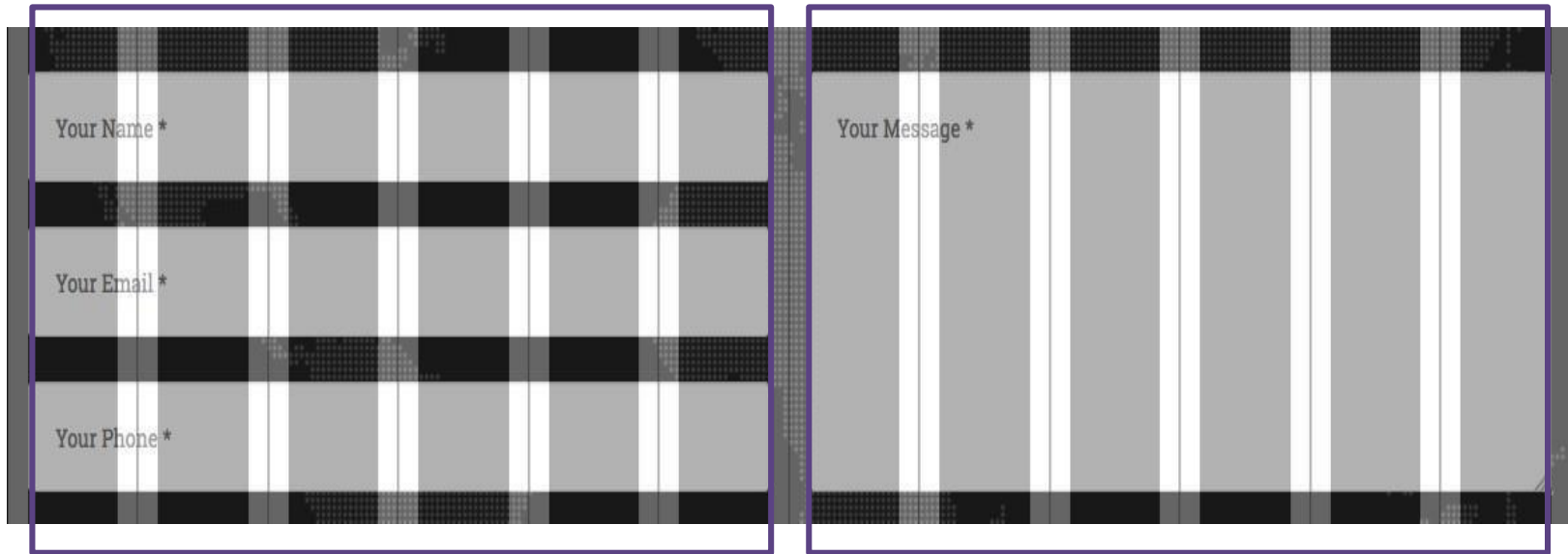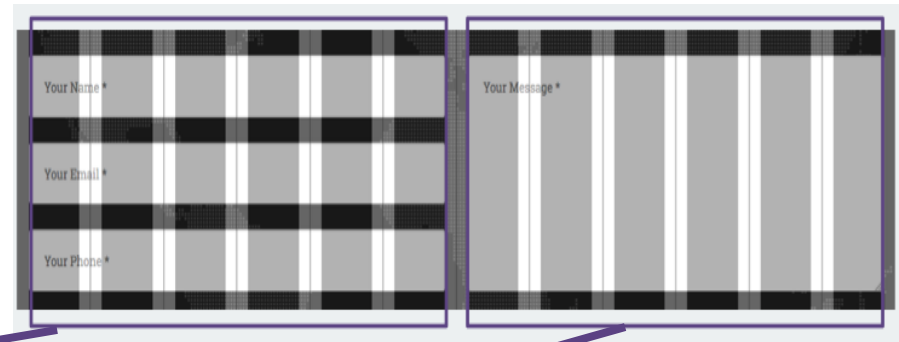
Bootstrap Grid Example 2
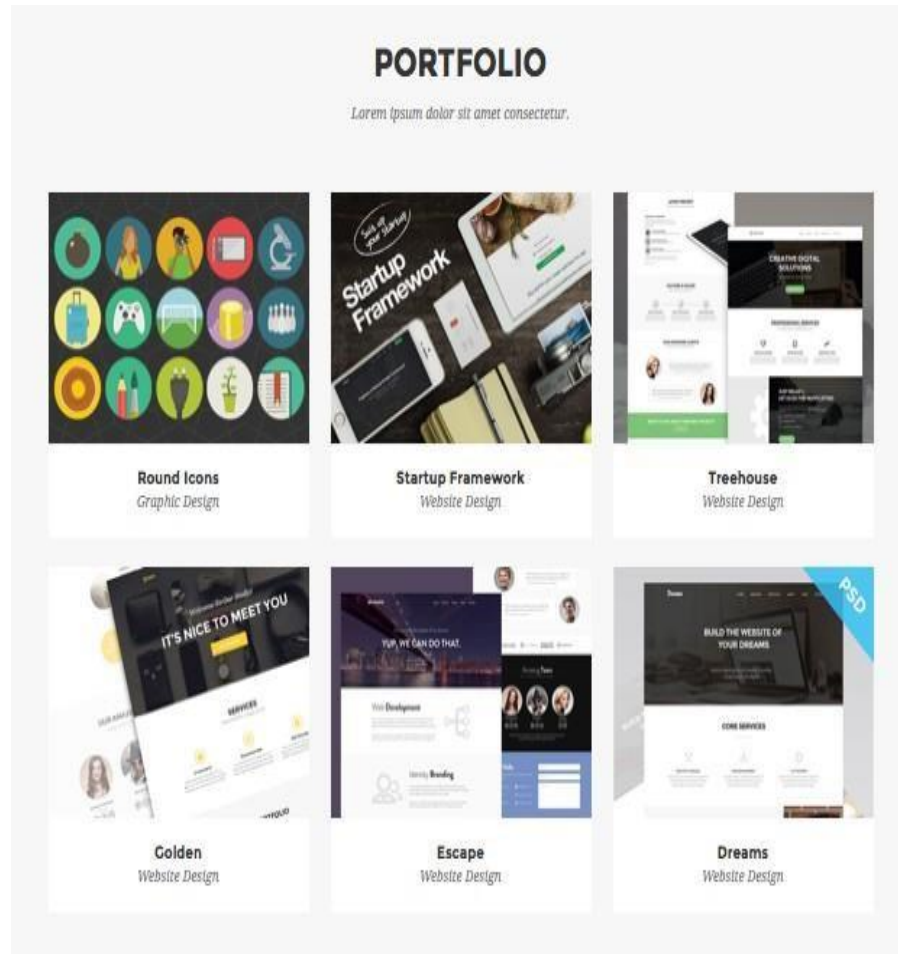
```
⚙ HTML

1  <div class="container">
2    <div class="row">
3      <div class="col-md-6">
4        ...
5      </div>
6      <div class="col-md-6">
7        ...
8      </div>
9    </div><!-- row -->
10 </div><!-- container -->
11
12
```
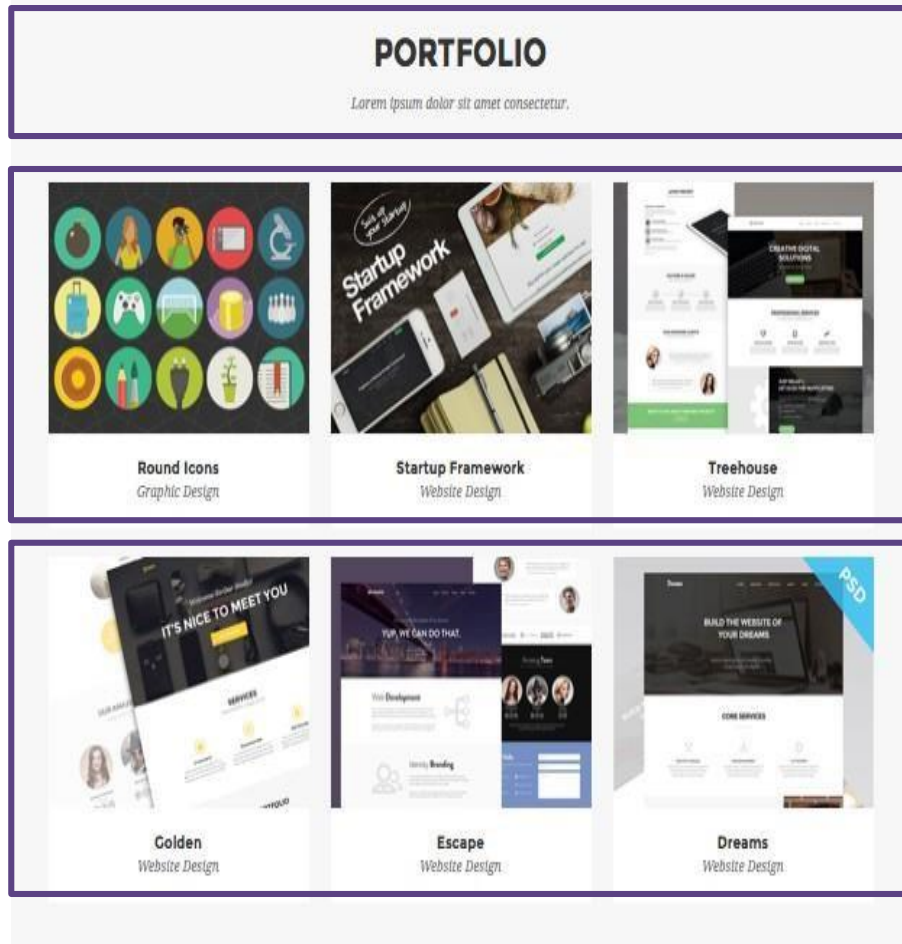
Bootstrap Row

1 Row = 12 Grids

Bootstrap Row

3 Rows

Bootstrap Row Example

```html
HTML
<div class="container">
  <div class="row">
    <div class="col-md-12"> ... </div>
  </div><!-- row -->
  <div class="row">
    <div class="col-md-4"> ... </div>
    <div class="col-md-4"> ... </div>
    <div class="col-md-4"> ... </div>
  </div><!-- row -->
  <div class="row">
    <div class="col-md-4"> ... </div>
    <div class="col-md-4"> ... </div>
    <div class="col-md-4"> ... </div>
  </div><!-- row -->
</div><!-- container -->
```