



AngularJS

Introduction to Bootstrap



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.

Bootstrap

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.

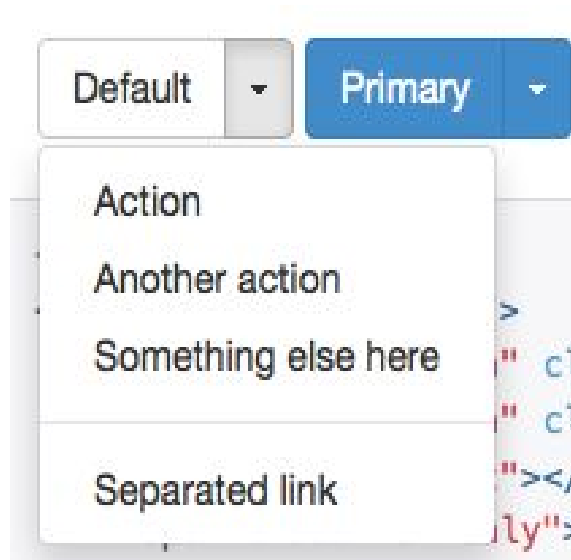


Full of features

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

Examples of Bootstrap components

#	Column heading	Column heading	Column heading
1	Column content	Column content	Column content
2	Column content	Column content	Column content
3	Column content	Column content	Column content
4	Column content	Column content	Column content
5	Column content	Column content	Column content
6	Column content	Column content	Column content
7	Column content	Column content	Column content
8	Column content	Column content	Column content
9	Column content	Column content	Column content



Oh snap! You got an error!

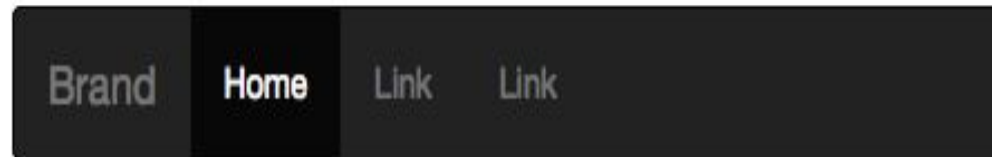
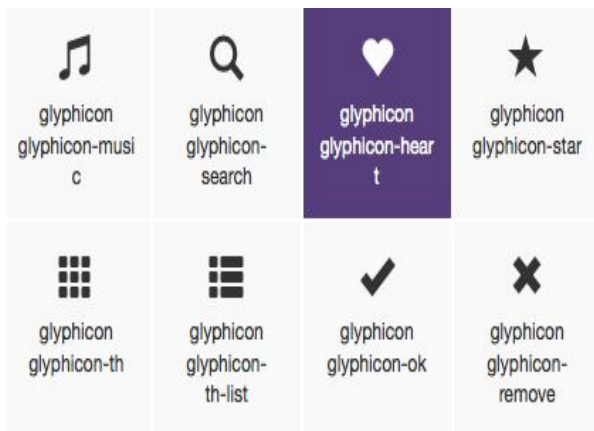
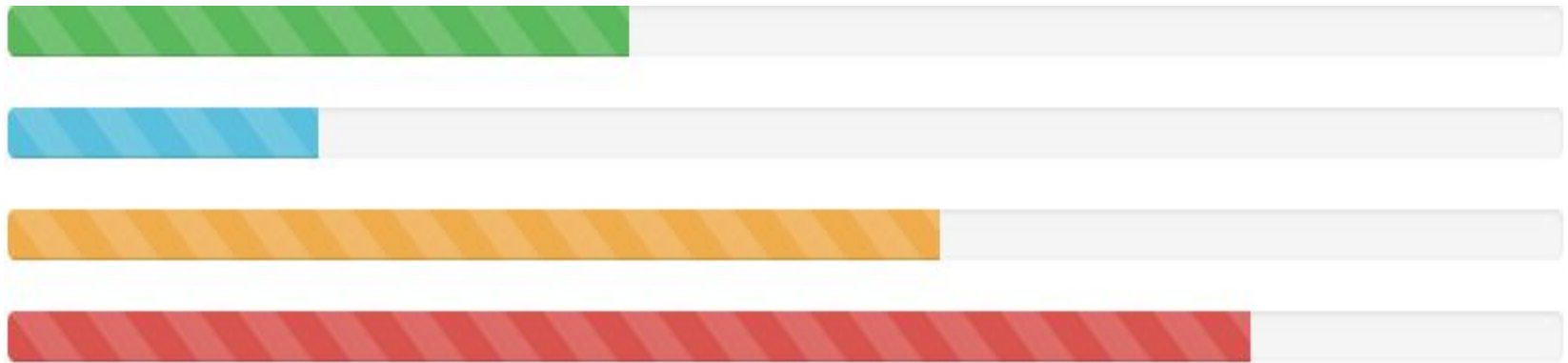


Change this and that and try again. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Cras mattis consectetur purus sit amet fermentum.

Take this action

Or do this

More examples of Bootstrap components



List of Bootstrap components

- Glyphicons
- Dropdowns
- Button groups
- Button dropdowns
- Input groups
- Navs
- Navbar
- Breadcrumbs
- Pagination
- Labels
- Badges
- Jumbotron
- Page header
- Thumbnails
- Alerts
- Progress bars
- Media object
- List group
- Panels
- Responsive embed
- Wells

Example: button groups

EXAMPLE



```
<div class="btn-group" role="group" aria-label="...">
  <button type="button" class="btn btn-default">Left</button>
  <button type="button" class="btn btn-default">Middle</button>
  <button type="button" class="btn btn-default">Right</button>
</div>
```


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?



The screenshot shows the Drupal.org homepage. At the top is a navigation bar with links: Get Started, Community & Support, Documentation, Download & Extend, Marketplace, and About. The main header features the Drupal logo, a search bar labeled "Search Drupal.org", and a "Refine your search" section with radio buttons for Modules, Themes, Documentation, Forums & Issues, and Groups. Below the header, the text "Come for the software, stay for the community" is followed by a paragraph describing Drupal as an open source content management platform. A "Drupal Homepage" link and "Login / Register" buttons are present. The main content area is divided into three columns: "Why Choose Drupal?" (describing its flexibility and community), "Sites Made with Drupal" (featuring The Economist and a link to success stories), and "Develop with Drupal" (listing current activity like 6,988 modules and 3,740 active developers, and this week's activity like 31 new modules). A "Get Started with Drupal" button is at the bottom of the first column. Below the main content, a blue Drupal logo is next to the text "708,149 people in 230 countries speaking 182 languages power Drupal." A world map shows the location of "DrupalCon Chicago March 7-10 2011". A "News" section lists updates like "Support Drupal by voting in the 2010 Open Source Awards" and "Packt Publishing... is also responsible for the Open Source Awards".

Get Started Community & Support Documentation Download & Extend Marketplace About

Drupal

Come for the software, stay for the community

Drupal is an open source content management platform used to power millions of websites and software applications. It's built, used, and supported by an active and diverse community of people from around the world.

Drupal Homepage Login / Register

Why Choose Drupal?

Drupal can be used to build everything from personal blogs to sophisticated enterprise applications. It features thousands of add-on modules and design themes that enable you to build any kind of site you can imagine. Drupal is free software that is flexible, robust, and constantly being improved by a community of hundreds of thousands of passionate users. Come join us!

Get Started with Drupal

Sites Made with Drupal

The Economist

Home World Business & Finance

The Economist.com data migration to Drupal

Drupal is used by some of the biggest sites on the Web, like The Economist, Examiner.com and The White House. Read more Drupal success stories.

Develop with Drupal

Drupal is extensible, powerful, scalable, and flexible.

Current activity:
6,988 modules
862 themes
3,740 active developers

This week:
31 new modules
1,355 code commits
5,410 issue comments

Drupal API
Download Drupal
Security Info
Handbook
Modules and Themes
Explore Drupal modules and themes

Get Drupal Security Announcements
Keep your site secure.

708,149 people in 230 countries speaking 182 languages power Drupal.

DrupalCon Chicago
March 7-10 2011

News

- Docs Updates
- Forum Posts
- Commits

Support Drupal by voting in the 2010 Open Source Awards
October 13, 2010

Packt Publishing, the company behind many well-known Drupal books, is also responsible for the Open Source Awards, an annual online event held to distinguish excellence among open Read more

beta.drupal.org is ready to QA!

Distributed Authentication (the drupal.module) on drupal.org will be moved off November 1st, 2010

What is Grid?

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



12 Grid

What is Grid?

4 Grid

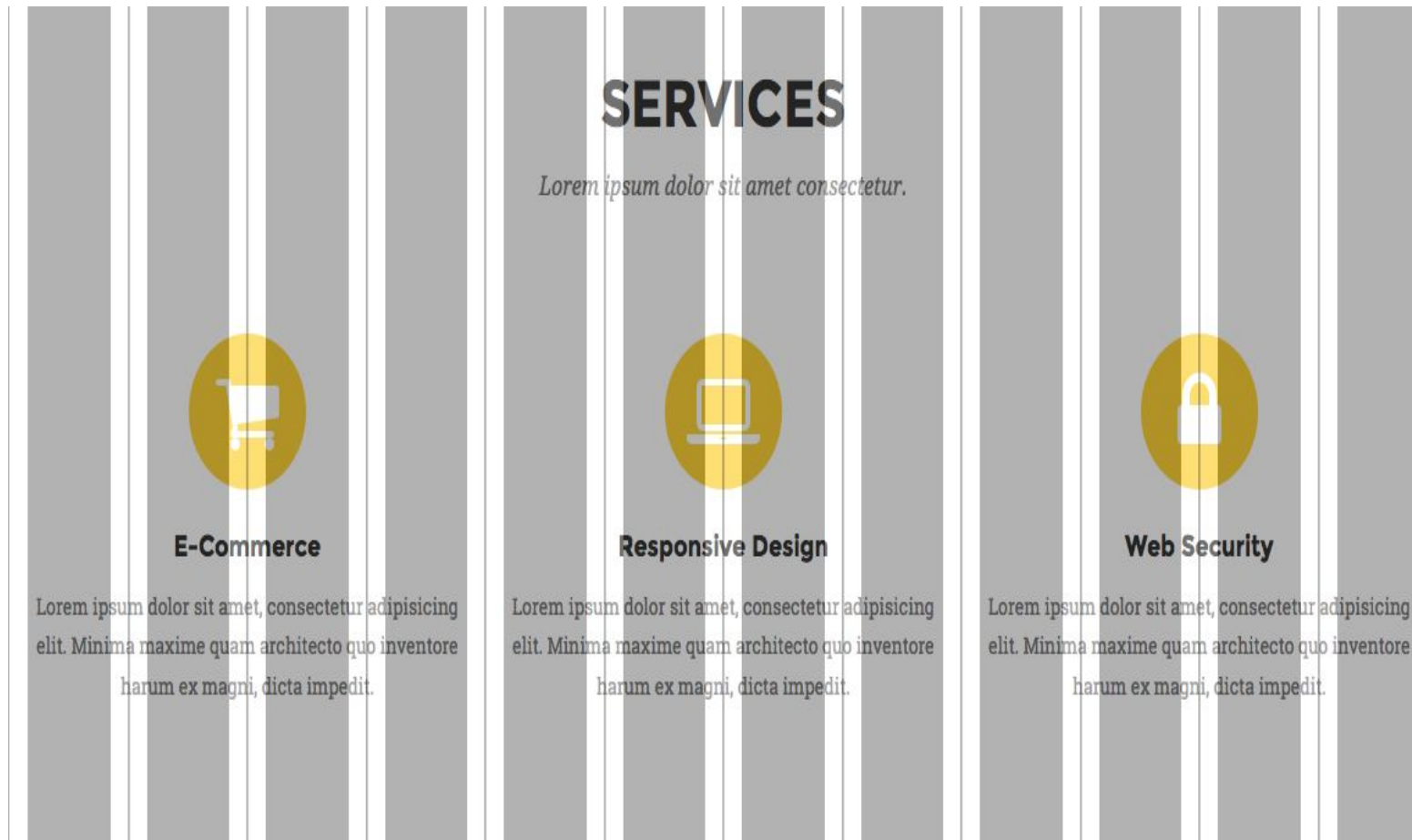
4 Grid

4 Grid



4 Grids x 3 Columns
= 12 Grids

Bootstrap Grid



12 Responsive Grid

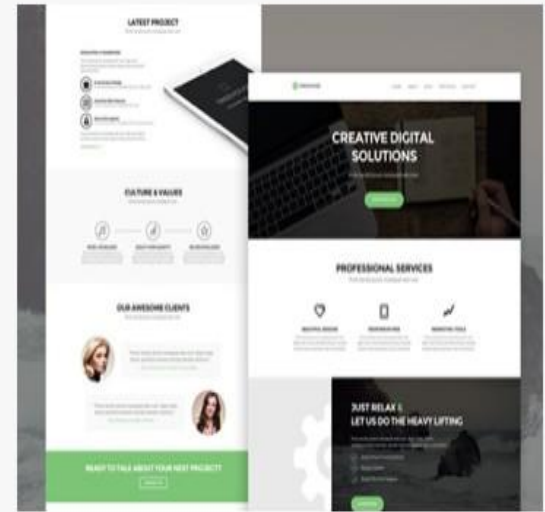
Bootstrap Grid example



Round Icons
Graphic Design



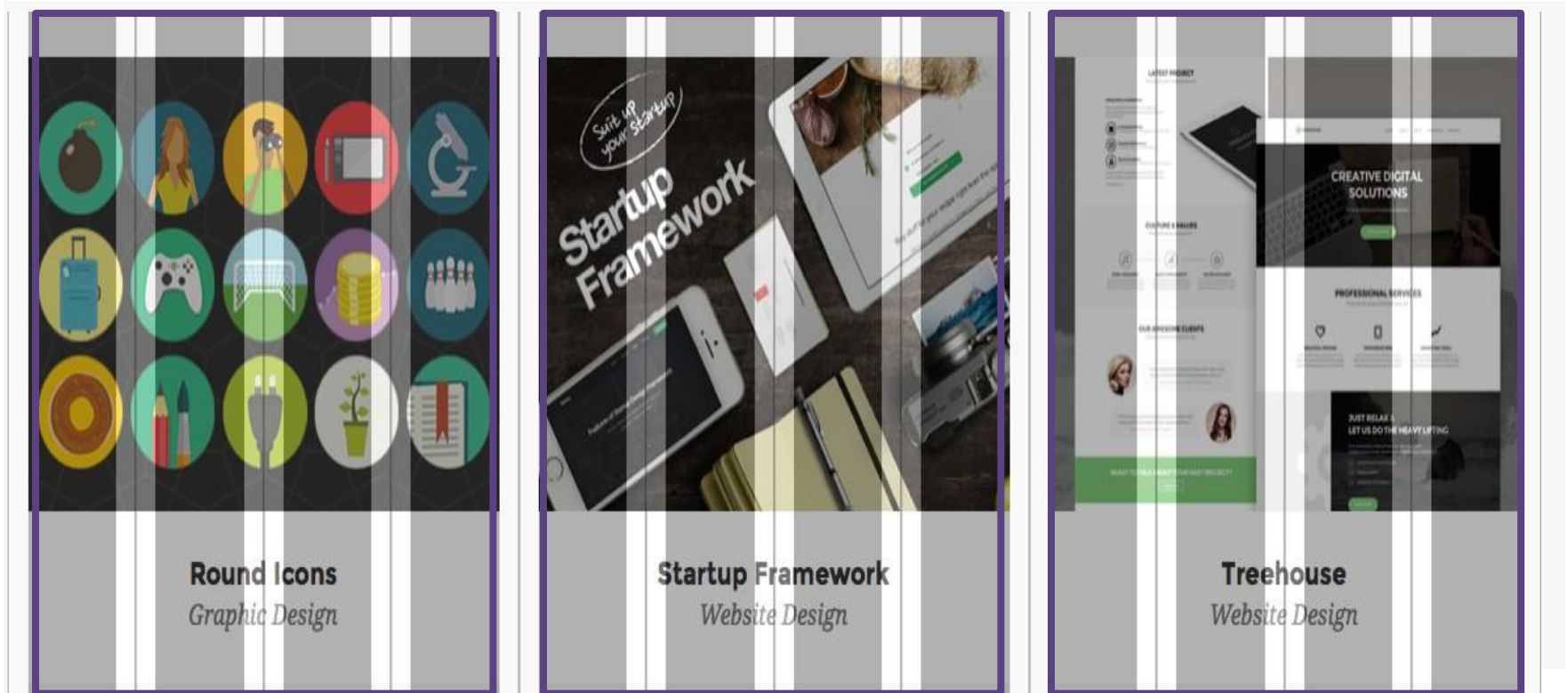
Startup Framework
Website Design



Treehouse
Website Design

How many grids in each box?

Bootstrap Grid example



4 grids x 3 Columns

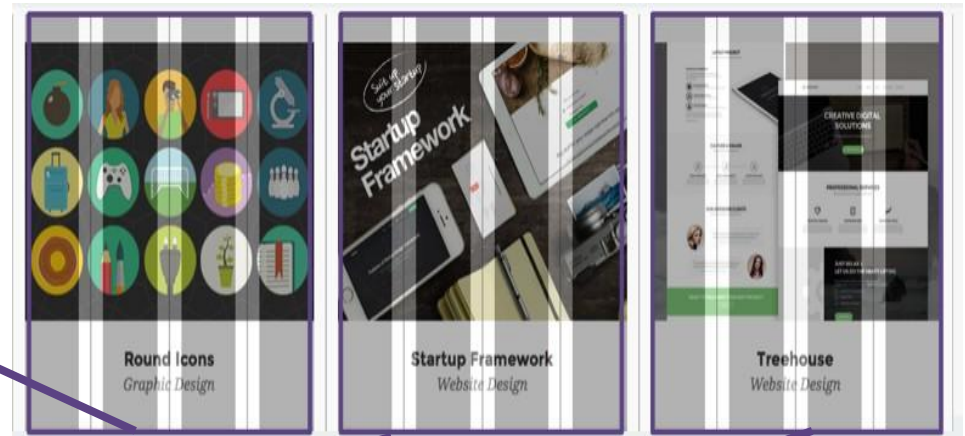
Bootstrap Grid example

HTML

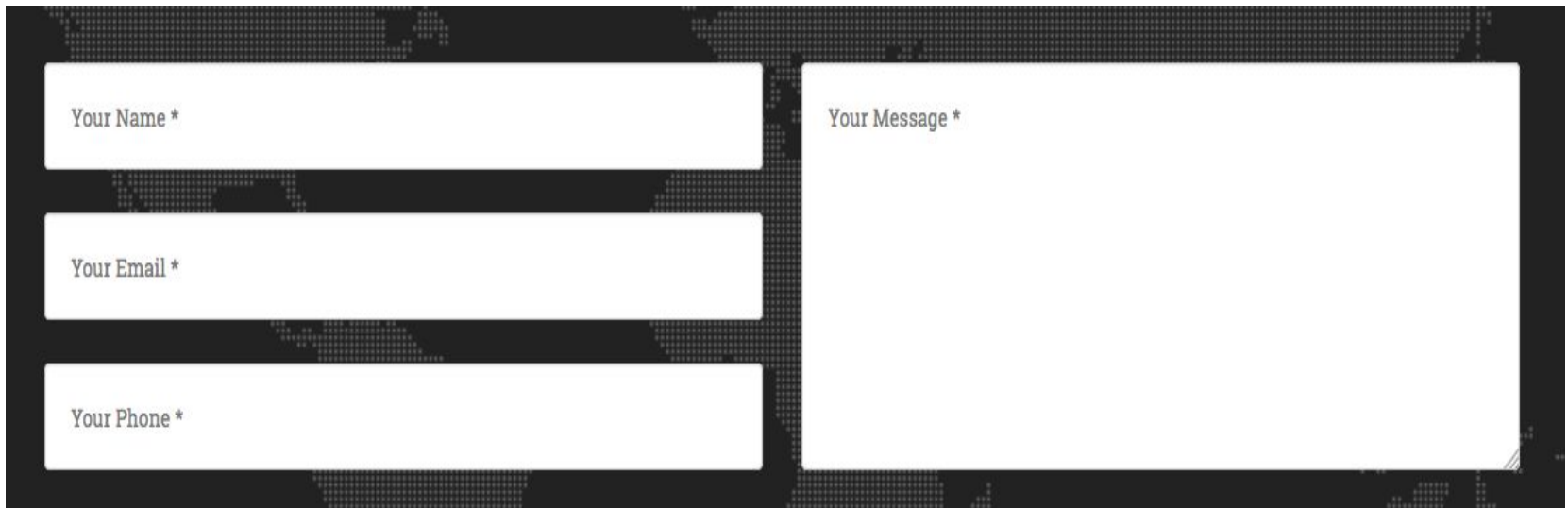
```
1 <div class="container">
2   <div class="row">
3     <div class="col-md-4">
4       ...
5     </div>
6     <div class="col-md-4">
7       ...
8     </div>
9     <div class="col-md-4">
10      ...
11    </div>
12  </div><!-- row -->
13</div><!-- container -->
14
```

Bootstrap Grid example

```
HTML
1 <div class="container">
2   <div class="row">
3     <div class="col-md-4">
4       ...
5     </div>
6     <div class="col-md-4">
7       ...
8     </div>
9     <div class="col-md-4">
10      ...
11    </div>
12  </div><!-- row -->
13 </div><!-- container -->
14
```



Bootstrap Grid example



A Bootstrap Grid example form. The form is set against a dark background with a faint world map. It consists of two main columns. The left column contains three stacked input fields, each with a label and an asterisk: 'Your Name *', 'Your Email *', and 'Your Phone *'. The right column contains a single, larger text area with the label 'Your Message *'.

How many grids in each box?

Bootstrap Grid example

The image displays a Bootstrap Grid layout with two columns. The left column contains three input fields, each with a label and an asterisk: "Your Name *", "Your Email *", and "Your Phone *". The right column contains a single input field with the label "Your Message *". The grid is composed of 6 rows and 2 columns, with each cell containing a gray background and a black border. The labels are positioned on the left side of each row, and the asterisks are on the right side.

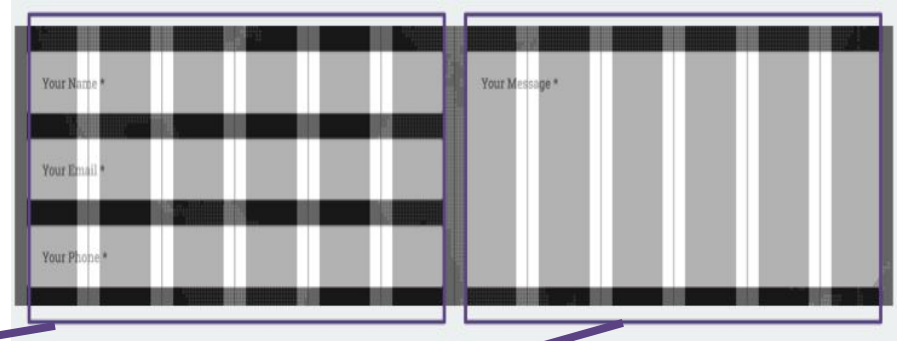
6 grids x 2 Columns

Bootstrap Grid example

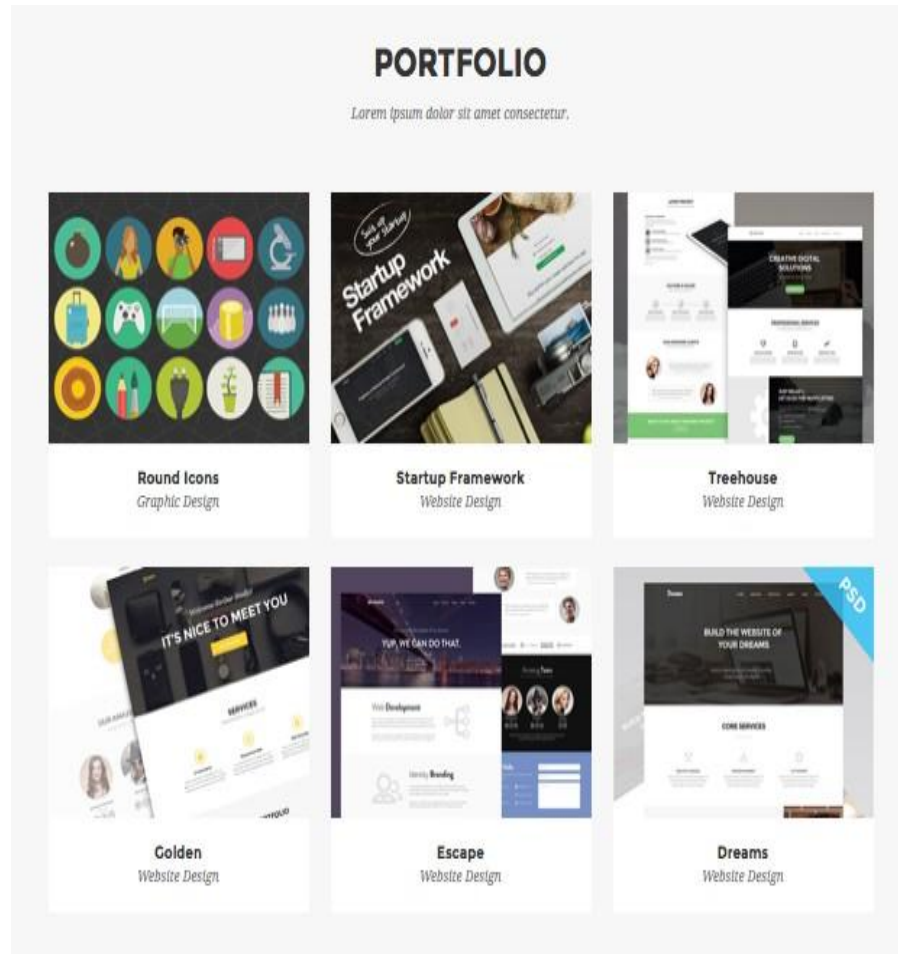
```
⚙ HTML
1 <div class="container">
2   <div class="row">
3     <div class="col-md-6">
4       ...
5     </div>
6     <div class="col-md-6">
7       ...
8     </div>
9   </div><!-- row -->
10 </div><!-- container -->
11
12
```

Bootstrap Grid example

```
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
```

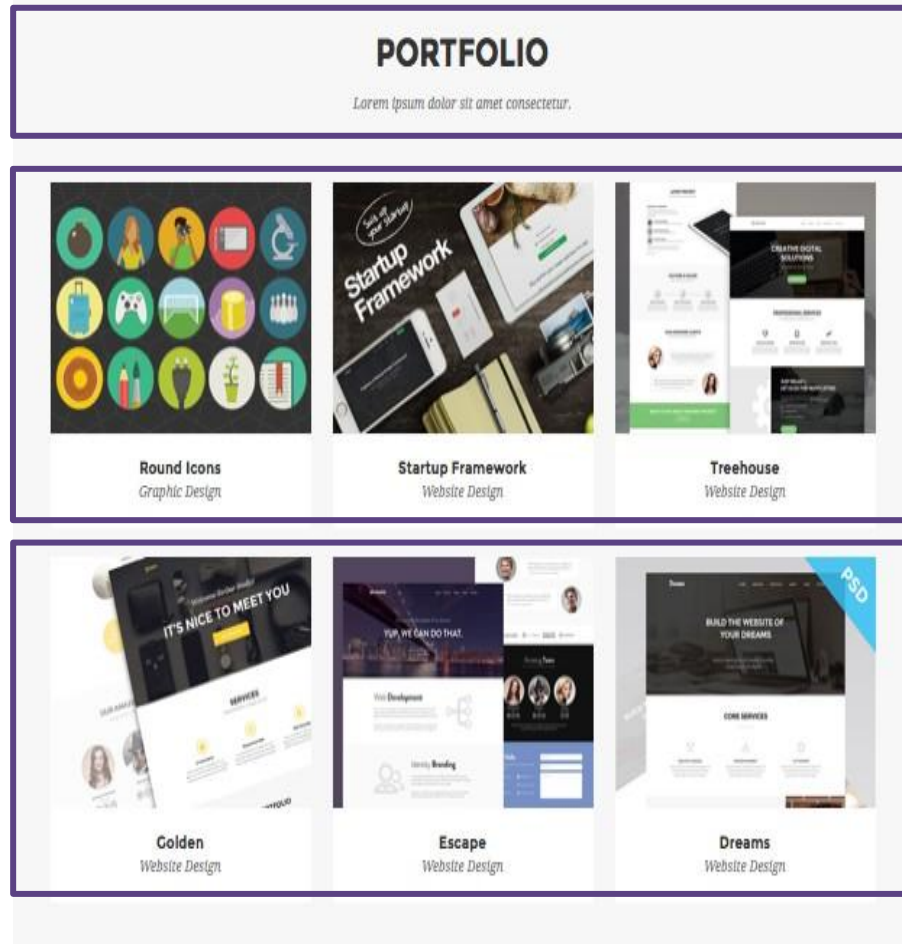


Bootstrap Rows



1 Row = 12 Grids

Bootstrap Rows



3 Rows

Bootstrap Rows

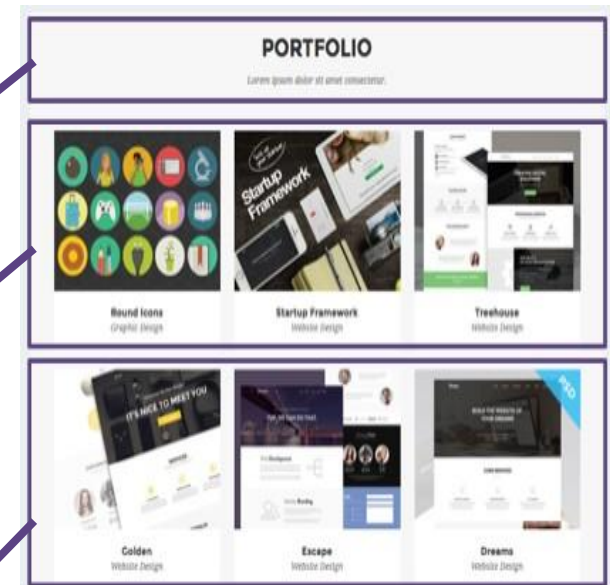
HTML

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

Bootstrap Rows

```
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 -->
```



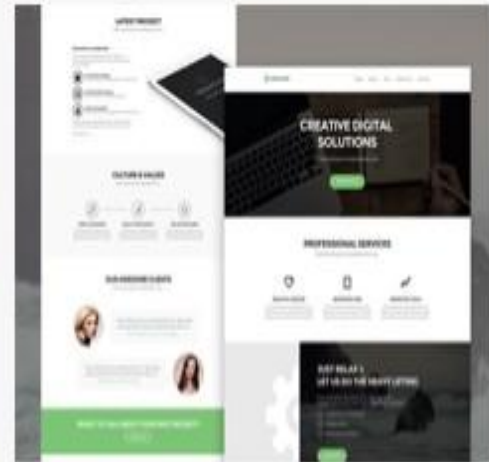
Bootstrap Responsive Grid



Round Icons
Graphic Design



Startup Framework
Website Design

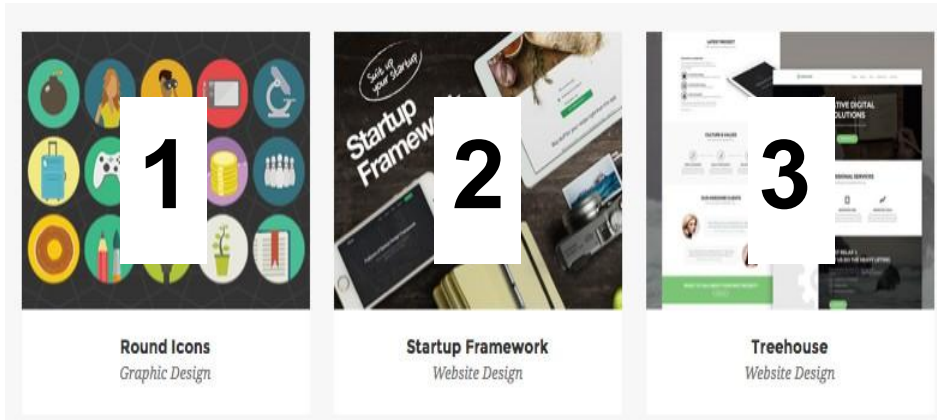


Treehouse
Website Design

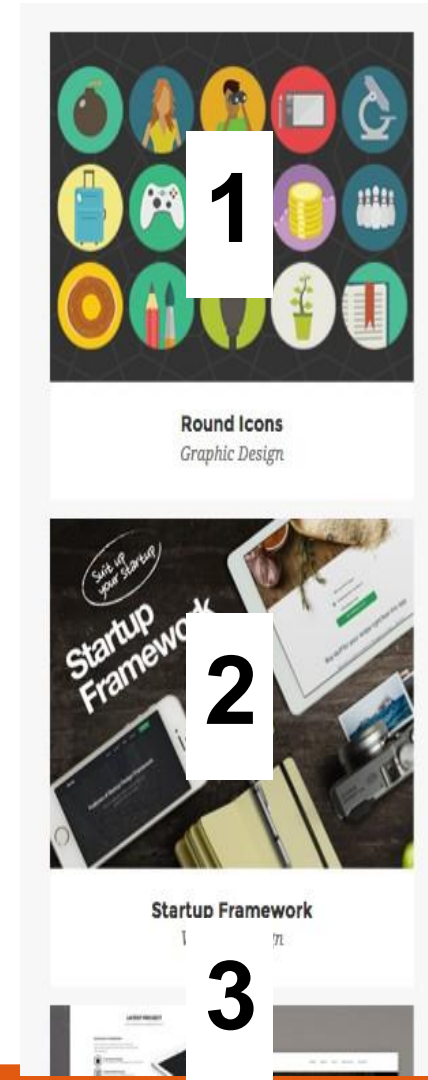
Columns will stack when responsive

Bootstrap Responsive Grid

Desktop



Mobile



Columns stack on mobile

4 sizes of 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

Example: mobile and desktop

.col-xs-12 .col-md-8

.col-xs-6 .col-md-4

.col-xs-6 .col-md-4

.col-xs-6 .col-md-4

.col-xs-6 .col-md-4

.col-xs-6

.col-xs-6

```
<!-- Stack the columns on mobile by making one full-width and the other half-width -->
<div class="row">
  <div class="col-xs-12 col-md-8">.col-xs-12 .col-md-8</div>
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>
</div>
```

```
<!-- Columns start at 50% wide on mobile and bump up to 33.3% wide on desktop -->
<div class="row">
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>
</div>
```


Offsetting columns

.col-md-4

.col-md-4 .col-md-offset-4

.col-md-3 .col-md-offset-3

.col-md-3 .col-md-offset-3

.col-md-6 .col-md-offset-3

```
<div class="row">
  <div class="col-md-4">.col-md-4</div>
  <div class="col-md-4 col-md-offset-4">.col-md-4 .col-md-offset-4</div>
</div>
<div class="row">
  <div class="col-md-3 col-md-offset-3">.col-md-3 .col-md-offset-3</div>
  <div class="col-md-3 col-md-offset-3">.col-md-3 .col-md-offset-3</div>
</div>
<div class="row">
  <div class="col-md-6 col-md-offset-3">.col-md-6 .col-md-offset-3</div>
</div>
```


Nested rows

Level 1: .col-sm-9

Level 2: .col-xs-8 .col-sm-6

Level 2: .col-xs-4 .col-sm-6

```
<div class="row">
  <div class="col-sm-9">
    Level 1: .col-sm-9
    <div class="row">
      <div class="col-xs-8 col-sm-6">
        Level 2: .col-xs-8 .col-sm-6
      </div>
      <div class="col-xs-4 col-sm-6">
        Level 2: .col-xs-4 .col-sm-6
      </div>
    </div>
  </div>
</div>
```

Task 7

Sections