

Ramverk för webbutveckling

**A WHOLE NEW**

**WORLD**

# Dagens föreläsning

- Hur har vi arbetat tidigare?
- Hur brukar man arbeta?
- Praktiska exempel på ramverk



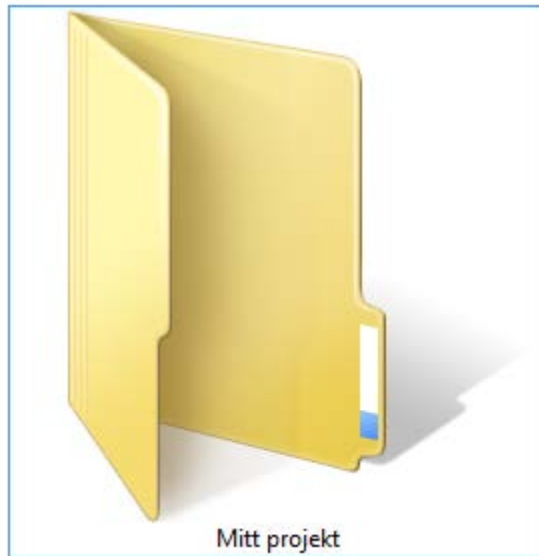
Nytt projekt, nya möjligheter!











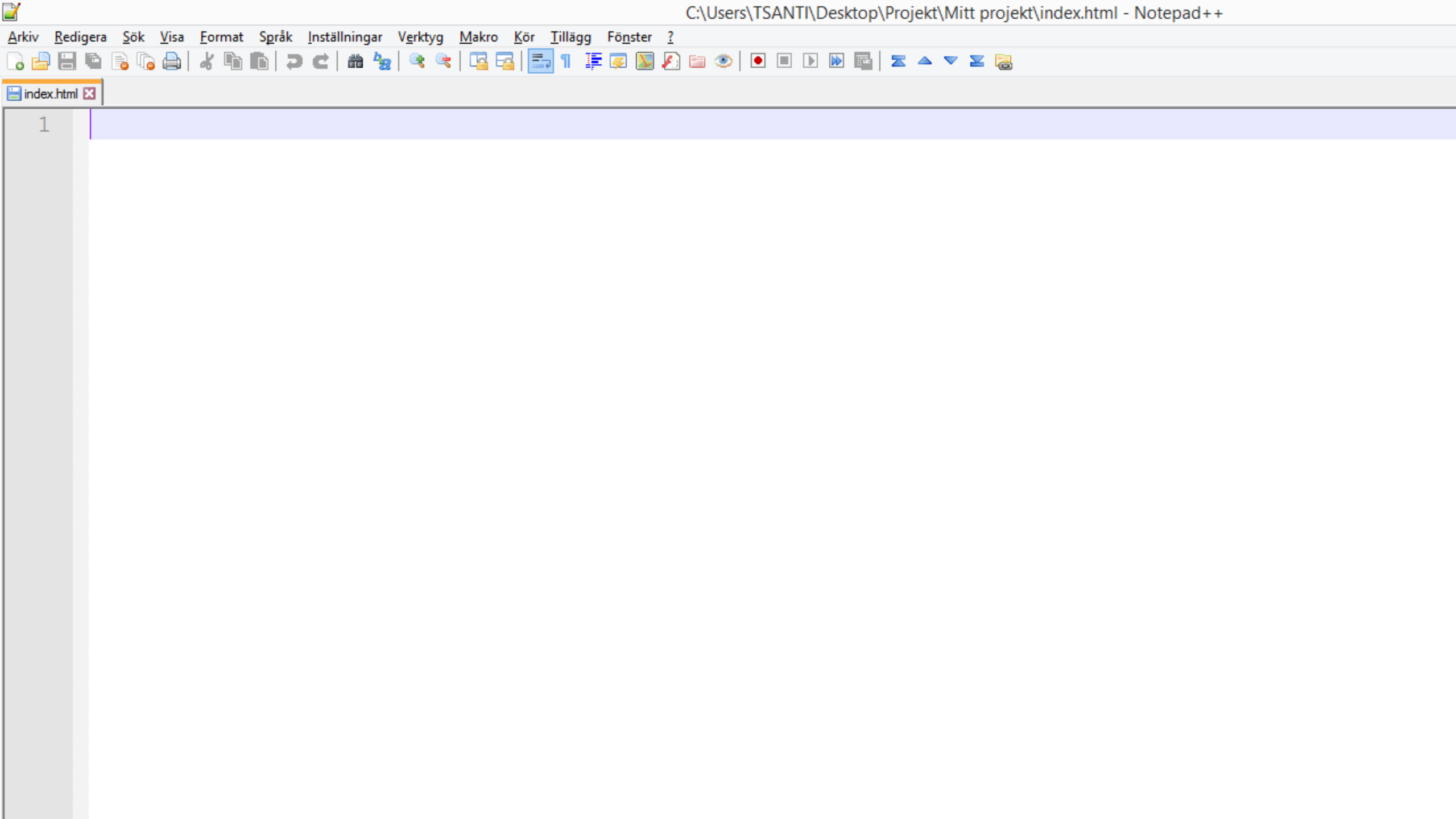


Senast ändrad

Typ

Storlek

Denna mapp är tom.



The Imitation Game



# Filmtajm

## Välkomna!

På denna site kan man se vilka filmer som har beskådats, man kan även se vad filmerna handlade om och vilka betyg de fått av betraktarna tillsammans eller var och en för sig.

Trots vår stora biosalong så är det inte plats till fler ordinarie medlemmar, men pass upp plötsligt vidgar vi vyerna och bjuder in till specialarrangemang.

Titta gärna runt och få en känsla för varför vi anser att sista måndagen i månaden alltid är månadens höjdpunkt.

Hmm... en ganska lång bit kvar...



index.html x

```
1 <!doctype html>
2 <html>
3   <head>
```



Sakta men säkert...



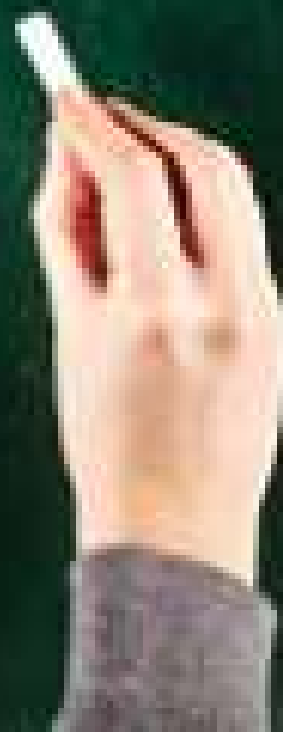
```
1  <!doctype>
2  <html>
3  <head>
4      <link href="style.css" type="text/css" rel="stylesheet">
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9      <div id="slideshow">
10         
11         
12         
13     </div>
14
15     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
16     <script src="script.js"></script>
17 </body>
18 </html>
```

Sen CSS, JS, och finlir!



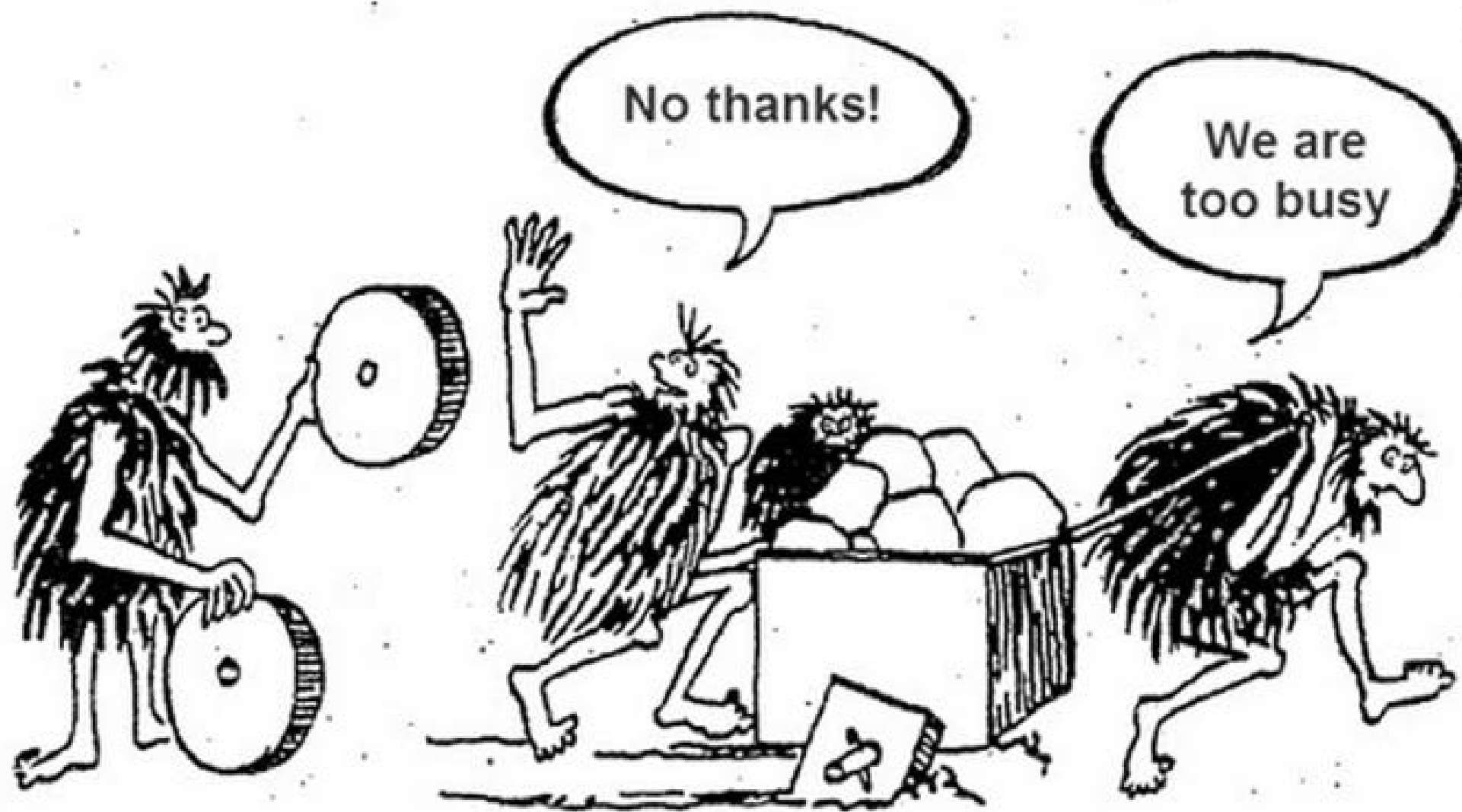


=





Kan vi inte vara effektiva?



# Ramverk – färdig kod att använda



Love your code.

# Introducing Gumbo 2

Now more flexible than ever

GitHub Twitter Facebook Google+



# Bootstrap 3


Sleek, intuitive, and powerful mobile-first front-end framework for faster and easier web development.

Heads up! Until the final v3 is released, downloads may be behind the development branch and Bower package.

Download Bootstrap

# Foundation 4

Advanced responsive framework in the world.



# YAML 4

## CSS Framework

A modular CSS framework for truly flexible, accessible and responsive websites

Browser Support

*De grundläggande tankarna bakom ramverk är enkla: Samla fungerande kod och gör den återanvändbar. Passa samtidigt på att presentera ett enhetligt sätt att skriva kod.*

<http://computersweden.idg.se/2.2683/1.606077/ramverk-eller-inte-ramverk--det-ar-fragan>



# Fördelar med ramverk

- Utvecklare slipper skriva kod för grundläggande uppgifter själva
- Koden i ett ramverk kan antas vara testad och tämligen felfri
- Det blir enklare att få en struktur för hur kod ska skrivas
- Medlemmar i utvecklarorganisationer och projekt kan enklare anamma ett enhetligt arbetssätt

Exempel på ramverk för  
webbdesign



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

[Download Bootstrap](#)

Currently v3.3.7



Om

Kom igång

CSS

Components

JavaScript

Mobile

Showcase

# Materialize

A modern responsive front-end framework based on M

KOM IGÅNG

beta release v0.97.7

All the tools your team  
needs in one place. Slack:  
Where work happens.

ads via Carbon

Latest Commit on Github: [e4416324ab4c3ca27cc85e9e79af84a76ea6ee3f](#) a day ago

# Foundation

The most advanced responsive front-end framework in the world.

[Download Foundation 6](#)

★ 24.2k GitHub stars

🐦 @ZURBfoundation





# Får vi använda koden?

Vilken licens använder sig ramverken av?

Tips: <http://choosealicense.com/>

# Choose an open source license

An open source license protects contributors and users. Businesses and savvy developers won't touch a project without this protection.

**Which of the following best describes your situation?**



**I need to work in a community.**

Use the [license preferred by the community](#) you're contributing to or depending on. Your project will fit right in.

If you have a dependency that doesn't have a license, ask its maintainers to [add a license](#).



**I want it simple and permissive.**

The [MIT License](#) is short and to the point. It lets people do almost anything they want with your project, including to make and distribute closed source versions.

[Babel](#), [.NET Core](#), and [Rails](#) use the MIT License.



**I care about sharing improvements.**

The [GNU GPLv3](#) also lets people do almost anything they want with your project, *except* to distribute closed source versions.

[Ansible](#), [Bash](#), and [GIMP](#) use the GNU GPLv3.

**What if none of these work for me?**

# Dokumentation?

Ett sätt att lära sig hur andras mjukvara fungerar!

**I'VE GOT SKILLS**

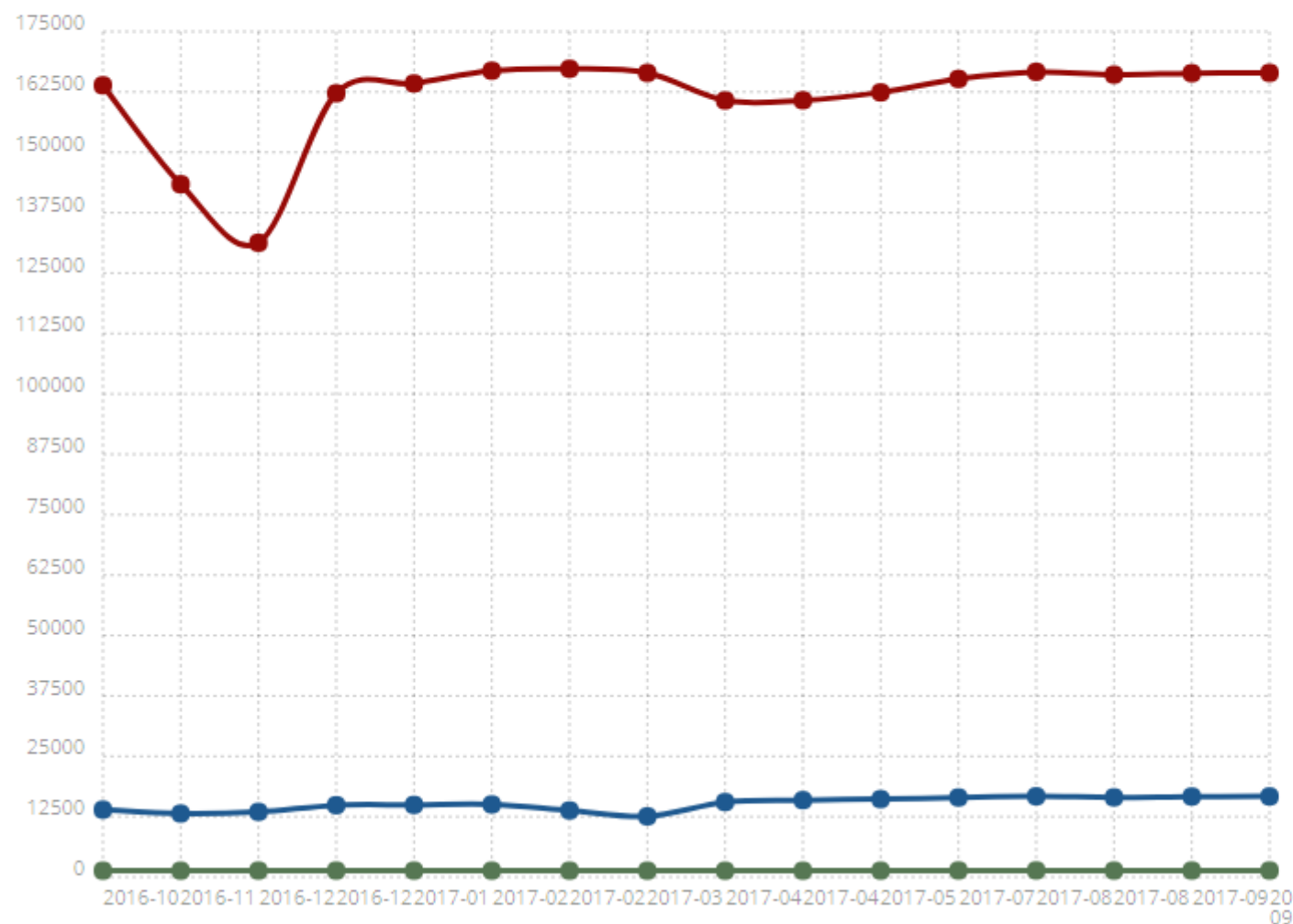
**DOCUMENTATION SKILLS, CODING SKILLS**



# Twitter Bootstrap Usage Statistics

## Websites using Twitter Bootstrap

↓ [Download Lead List](#)



### Chart Data

Source	Legend	Chart
Top 10k	<span style="color: green;">●</span>	<input checked="" type="checkbox"/>
Top 100k	<span style="color: blue;">●</span>	<input checked="" type="checkbox"/>
Top 1m	<span style="color: red;">●</span>	<input checked="" type="checkbox"/>
Internet	<span style="color: black;">●</span>	<input type="checkbox"/>

### Coverage Totals

**Quantcast Top 10k** **13.6%**  
1,355 of 10,000

**Quantcast Top 100k** **16.7%**  
16,692 of 100,000

**BuiltWith Top Million** **20.7%**  
166,436 of 802,560

**Entire Internet** **3.4%**  
12,690,620 of 374,478,977

Hur använder man ett ramverk?

## Getting started

### Introduction

[Download](#)[Contents](#)[Browsers & devices](#)[JavaScript](#)[Options](#)[Build tools](#)[Webpack](#)[Accessibility](#)

### Layout

### Content

### Components

### Utilities

### Extend

### Migration

# Introduction

Get started with Bootstrap, the world's most popular framework for building responsive, mobile-first sites, with the Bootstrap CDN and a template starter page.



Build better native apps  
for iOS and Android. Fuse:  
Write once. Write less.  
ads via Carbon

## Quick start

Looking to quickly add Bootstrap to your project? Use the Bootstrap CDN, provided for free by the folks at MaxCDN. Using a package manager or need to download the source files? [Head to the downloads page](#).

Copy-paste the stylesheet `<link>` into your `<head>` before all other stylesheets to load our CSS.

```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/css/bootstrap.min.css" integrity="sh
```

Add our optional JavaScript plugins, jQuery, and [Popper.js](#) near the end of your pages, right before the closing



Dags att kolla in ramverk!  
- Bootstrap

<https://getbootstrap.com>

# Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

[Get started](#)[Download](#)

Currently v4.0.0-beta



Don't let debugging ruin your day. Find errors before you deploy! ads via Carbon





## Getting started

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## Layout

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# Starter template

Be sure to have your pages set up with the latest design and development standards. That means using an HTML5 doctype and including a viewport meta tag for proper responsive behaviors. Put it all together and your pages should look like this:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/css/bootstrap.min.css" integrity=
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCKRr/rE9/Q
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/popper.min.js" integrity="sha384-b/U6ypiE
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/js/bootstrap.min.js" integrity="sha384-h0AbiXch4
  </body>
</html>
```

## Getting started

[Introduction](#)[Download](#)

## Contents

[Browsers & devices](#)[JavaScript](#)[Options](#)[Build tools](#)[Webpack](#)[Accessibility](#)

## Layout

## Content

## Components

## Utilities

## Extend

## Migration

# Precompiled Bootstrap

Once downloaded, unzip the compressed folder and you'll see something like this:

```
bootstrap/  
├─ css/  
│   ├── bootstrap.css  
│   ├── bootstrap.css.map  
│   ├── bootstrap.min.css  
│   └─ bootstrap.min.css.map  
└─ js/  
    ├── bootstrap.js  
    └─ bootstrap.min.js
```

This is the most basic form of Bootstrap: precompiled files for quick drop-in usage in nearly any web project. We provide compiled CSS and JS ( `bootstrap.*` ), as well as compiled and minified CSS and JS ( `bootstrap.min.*` ). CSS [source maps](#) ( `bootstrap.*.map` ) are available for use with certain browsers' developer tools.

## Bootstrap source code

The Bootstrap source code download includes the precompiled CSS and JavaScript assets, along with source Sass, JavaScript, and documentation. More specifically, it includes the following and more:

```
bootstrap/  
├─ dist/  
└─
```

Vad ingår i Bootstrap?

# Vad ingår i Bootstrap?

- Layout
  - Responsiv layout genom "grids" (ej samma som CSS grids)
- Grundläggande CSS
  - Typografi
  - Tabeller
  - Figurer
  - Bilder
  - Etc.
- Komponenter
  - Olika visuella / funktionella komponenter så som menyer/knappar/bildspel/etc.
- Hjälpmedel för att skräddarsy sin webbsida

# What is Grid in web design?

The screenshot displays the Drupal.org homepage, which is organized into a grid. At the top is a blue header with navigation links: Get Started, Community & Support, Documentation, Download & Extend, Marketplace, and About. Below the header, the main content area is divided into several sections. On the left, there's a large blue section for the Drupal logo and a brief description. To its right is a search bar and a list of links to refine the search. Below these, the page is split into three columns. The first column, 'Why Choose Drupal?', describes the platform's flexibility and community. The second column, 'Sites Made with Drupal', features a screenshot of The Economist website and mentions its data migration to Drupal. The third column, 'Develop with Drupal', lists current activity and provides links to various resources. At the bottom, a world map shows the global reach of Drupal, with a callout for DrupalCon Chicago. To the right of the map, there's a news section with updates on Open Source Awards and a security announcement.

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

Search Drupal.org

Refine your search

- Modules
- Themes
- Documentation
- Forums & Issues
- Groups

### 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

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 15, 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](#)

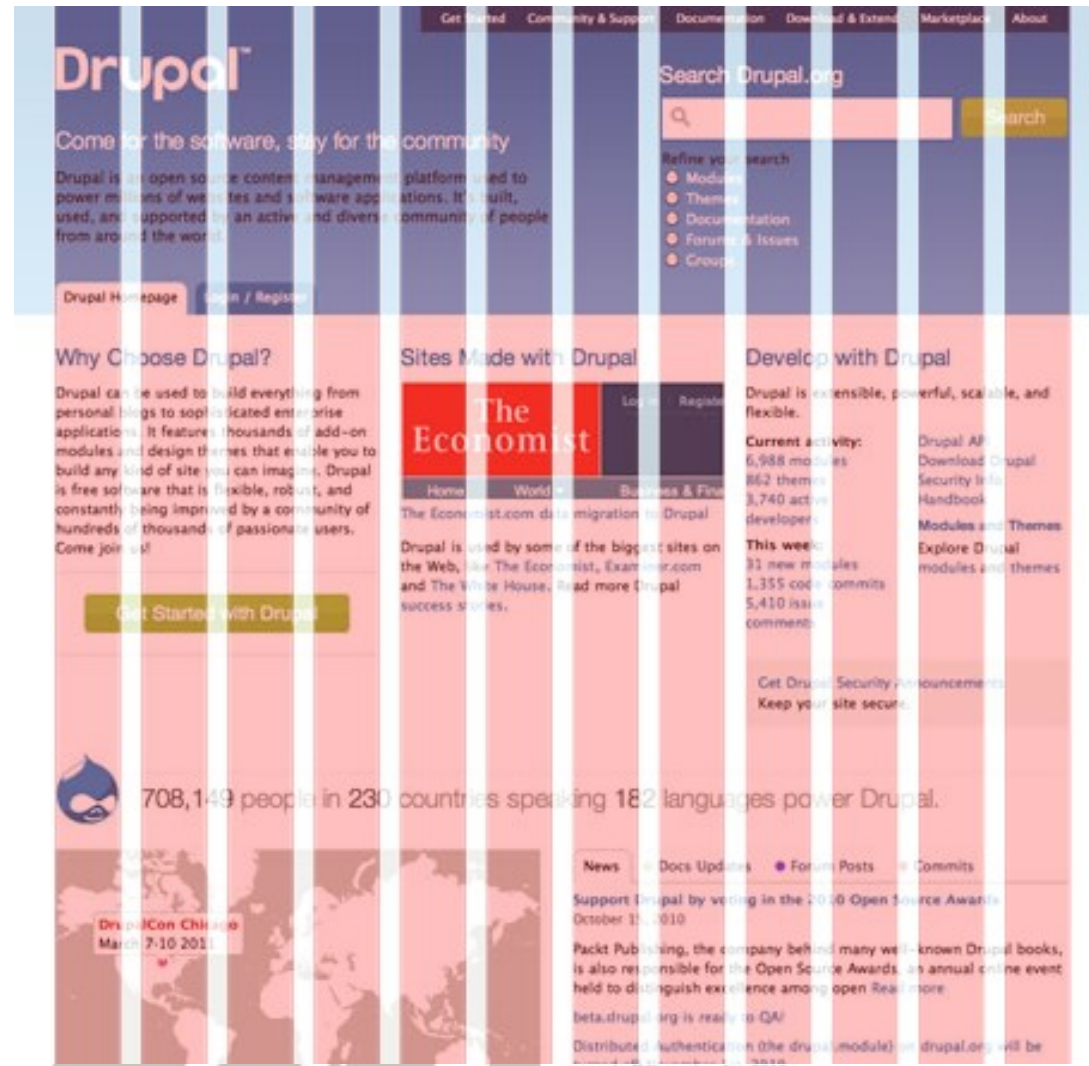
beta.drupal.org is ready to QA!

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



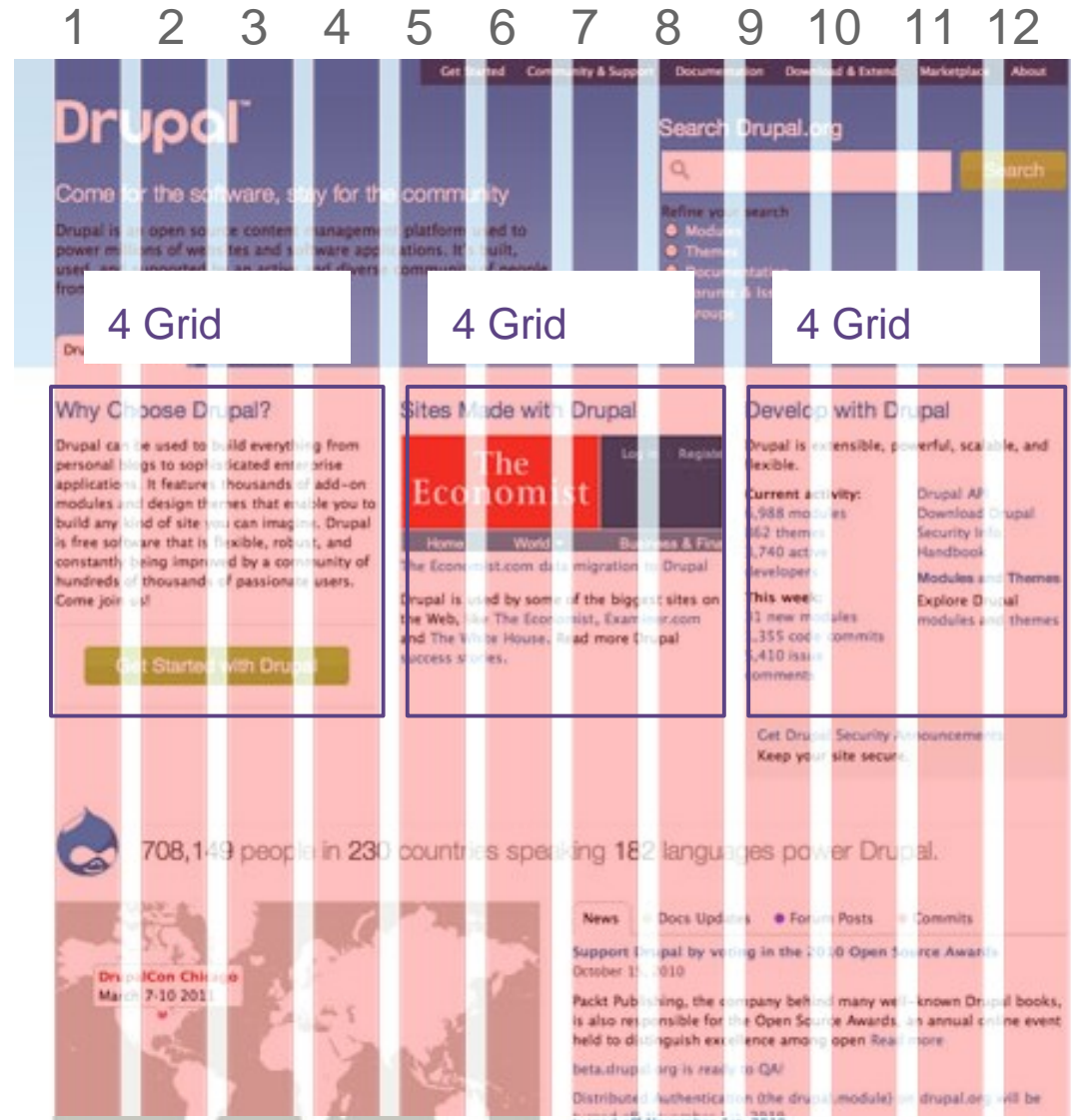
# What is Grid in web design?

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



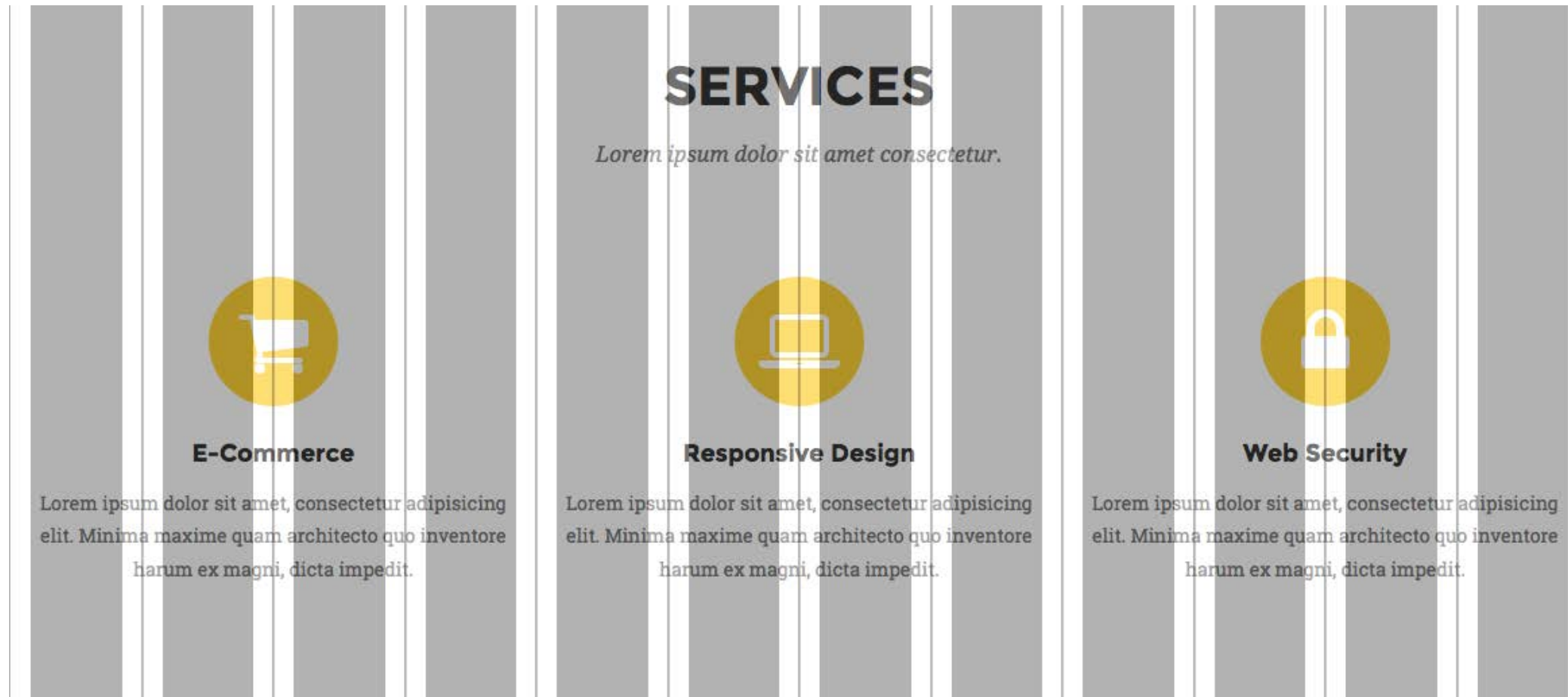
12 Grid

# What is Grid in web design?



4 Grids x 3 Columns  
= 12 Grids

# Bootstrap Grid



12 Responsive Grid

# Bootstrap Grid

	<b>Extra small</b> <576px	<b>Small</b> ≥576px	<b>Medium</b> ≥768px	<b>Large</b> ≥992px	<b>Extra large</b> ≥1200px
<b>Max container width</b>	None (auto)	540px	720px	960px	1140px
<b>Class prefix</b>	<b>.col-</b>	<b>.col-sm-</b>	<b>.col-md-</b>	<b>.col-lg-</b>	<b>.col-xl-</b>
<b># of columns</b>	12				
<b>Gutter width</b>	30px (15px on each side of a column)				
<b>Nestable</b>	Yes				
<b>Column ordering</b>	Yes				

# Bootstrap Grid Example

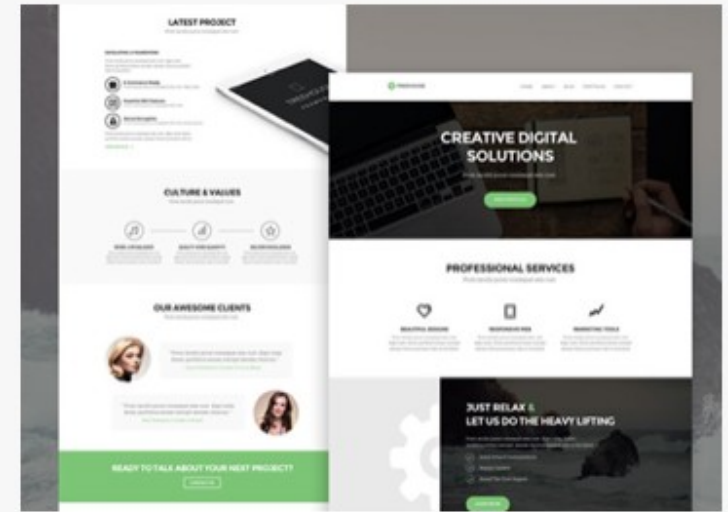
<http://bit.ly/bs-agency>



**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

```
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 2

A screenshot of a web form using the Bootstrap grid system. The form is set against a dark background with a subtle world map pattern. 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 \*'. The layout demonstrates a 2-column grid where the first column has a width of 4 grid units and the second column has a width of 4 grid units, totaling 8 grid units.

Your Name \*

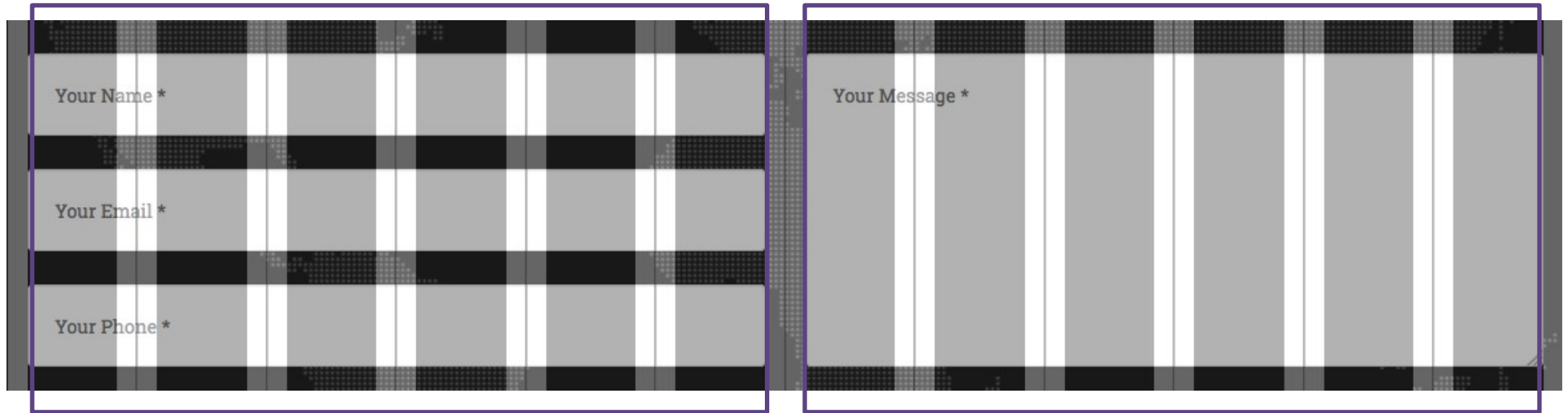
Your Email \*

Your Phone \*

Your Message \*

**How many grids in each box?**

# Bootstrap Grid Example 2



The image displays a Bootstrap grid layout with two columns. The left column contains three form fields, each labeled with an asterisk to indicate they are required: "Your Name \*", "Your Email \*", and "Your Phone \*". The right column contains a single, larger form field labeled "Your Message \*". The grid is composed of 6 columns in total, with the first column being a narrow sidebar and the remaining 5 columns divided into the two main content areas.

**6 grids x 2 Columns**

## Bootstrap Grid Example 2

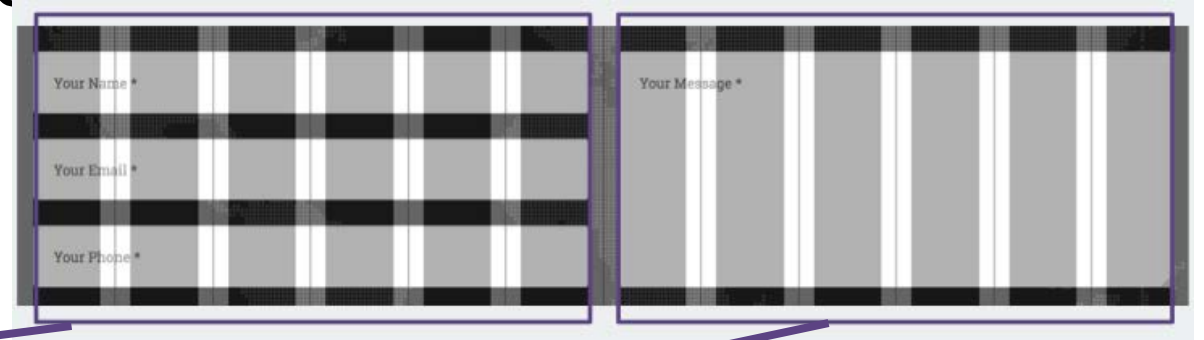
HTML

```
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 -->
```

# Bootstrap Grid Example 2

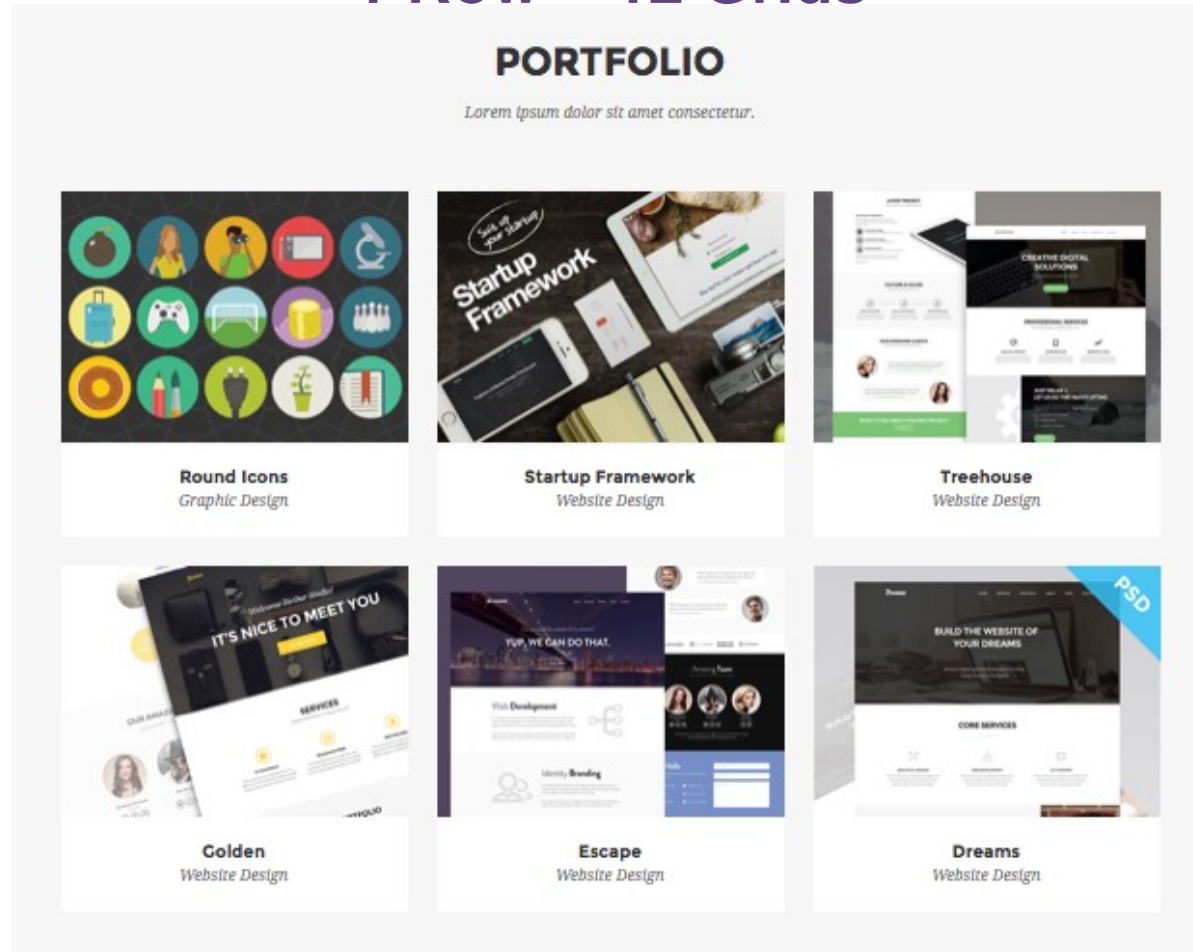
HTML

```
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
```

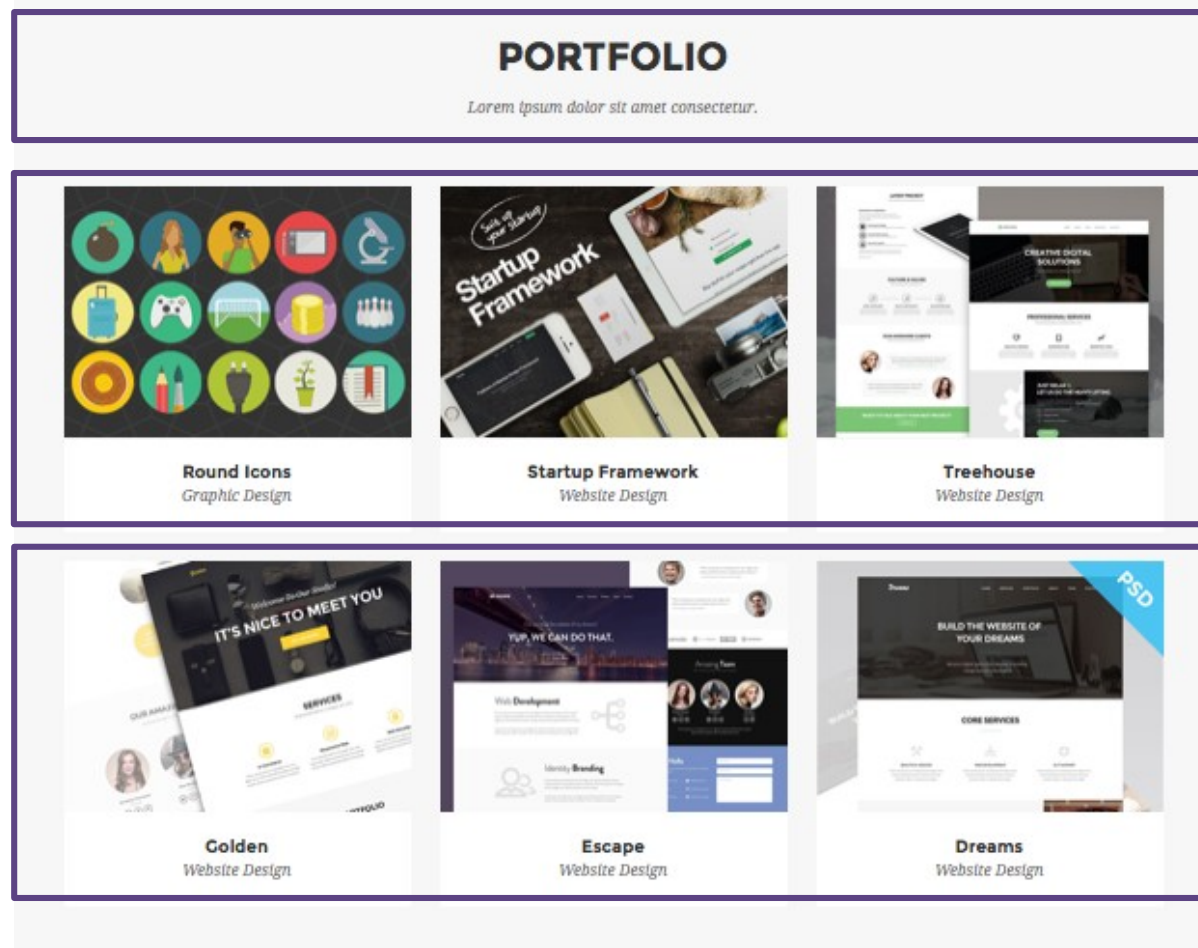


# Bootstrap Row

1 Row = 12 Grids



# Bootstrap Row



3 Rows

# Bootstrap Row Example

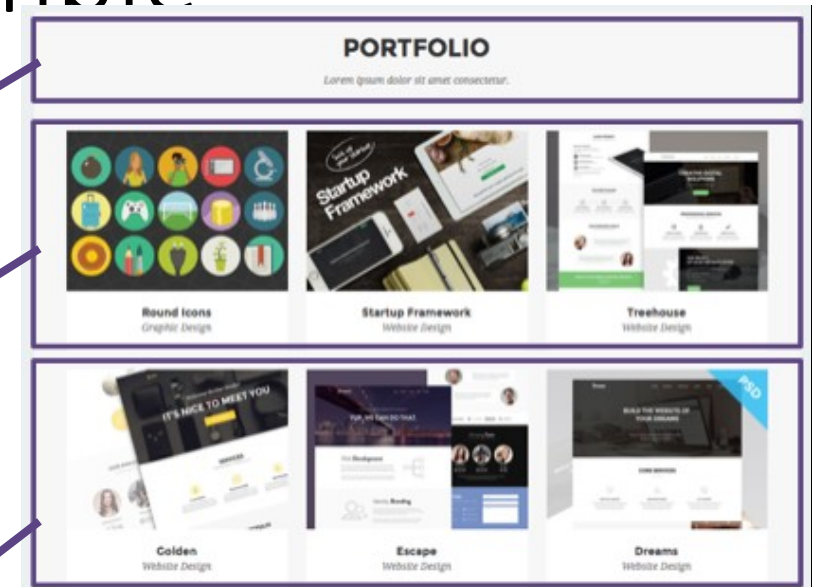
HTML

```
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 Row Example

## 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



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**Startup Framework**  
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*Website Design*

**Columns will stack when responsive**

# Bootstrap Responsive Grid



**Round Icons**  
*Graphic Design*



**Startup Framework**  
*Website Design*



**Treehouse**  
*Website Design*

Columns stack on mobile



**Round Icons**  
*Graphic Design*



**Startup Framework**



**Treehouse**

# Bootstrap Grid Workshop

## **3 Easy Steps:**

1. Add container
2. Add row
3. Add columns

Låt oss ta en närmre titt! =)

<https://getbootstrap.com>