



**NXT**  
**WAVE**

**WELCOME**

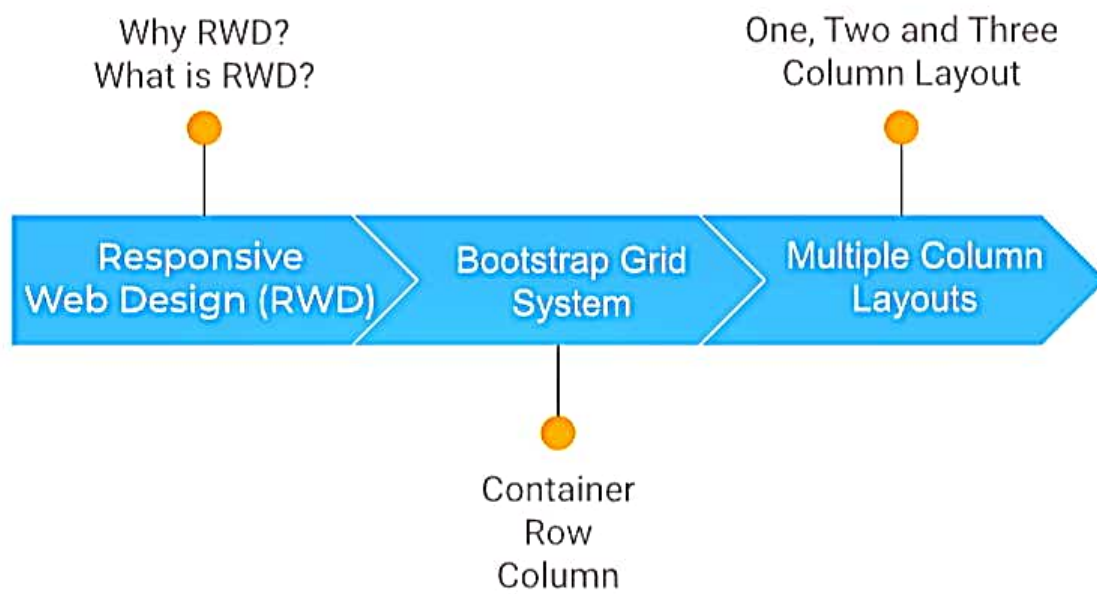




## Introduction to Responsive Web Design

## Agenda

# Introduction to Responsive Web Design





Let's see how  
**AMAZON**  
website looks on a mobile



**NXT  
WAVE**

Amazon Website

## Mobile Version



NXT  
WAVE

Amazon Website

## Mobile Version in Desktop



Amazon Website

## Desktop Version



Devices

## Wide Variety of Sizes





How to Create Websites  
with Best User Experience  
Across all The Devices?



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# Responsive Web Design



Responsive Web Design

## What is Responsive Web Design?

Responsive Web Design (RWD) is an approach to make web pages give best user experience in all the devices



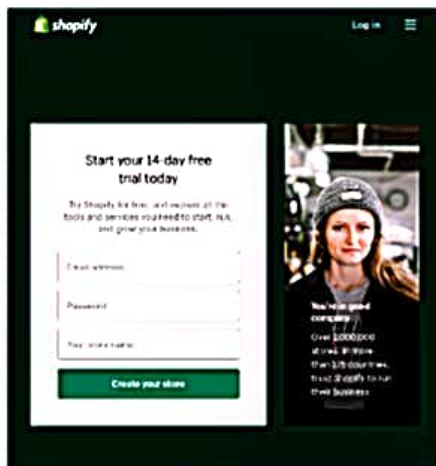
## Responsive Web Design

shopify.in



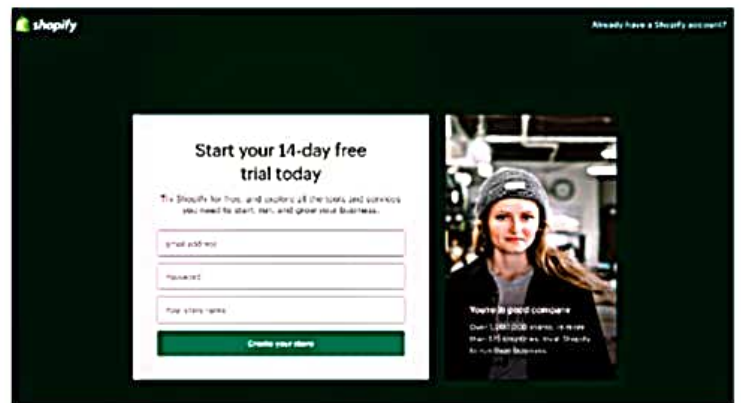
The mobile view of the Shopify sign-up page is a single column layout. At the top, the Shopify logo and a 'Log in' link are visible. The main heading is 'Start your 14-day free trial today', followed by a sub-headline: 'Try Shopify for free, and explore all the tools and services you need to start, run, and grow your business.' Below this are three input fields: 'Email address', 'Password', and 'Your store name'. A green 'Create your store' button is at the bottom.

Mobile



The tablet view of the Shopify sign-up page features a two-column layout. The left column contains the heading 'Start your 14-day free trial today', the sub-headline, and the input fields for 'Email address', 'Password', and 'Your store name'. The right column features a large image of a woman wearing a beanie and a dark jacket, with the text 'You're good company' and 'Over 100,000 stores in more than 175 countries trust Shopify to run their business.' A green 'Create your store' button is at the bottom of the left column.

Tablet



The desktop view of the Shopify sign-up page features a three-column layout. The left column contains the heading 'Start your 14-day free trial today', the sub-headline, and the input fields for 'Email address', 'Password', and 'Your store name'. The middle column is empty. The right column features a large image of a woman wearing a beanie and a dark jacket, with the text 'You're good company' and 'Over 100,000 stores in more than 175 countries trust Shopify to run their business.' A green 'Create your store' button is at the bottom of the left column. A 'Log in' link is visible in the top right corner.

Desktop

Responsive Web Design

apple.com



Mobile



Tablet



Desktop

Responsive Web Design

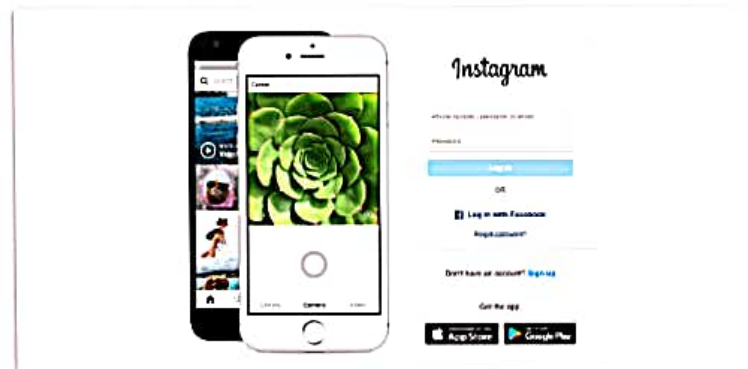
instagram.com



Mobile



Tablet



Desktop

## Responsive Web Design

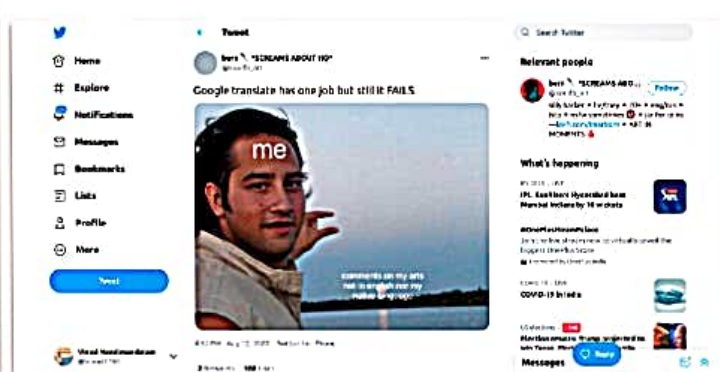
# twitter.com



Mobile



Tablet



Desktop

# How to Build Responsive Websites?







# Bootstrap Grid System



Bootstrap

# Grid System

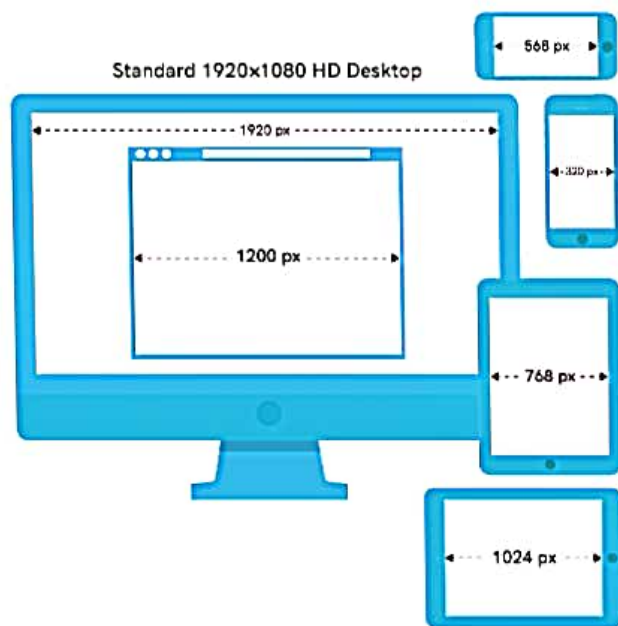
A collection of  
Reusable Code Snippets  
to create **Responsive Layouts**



**NXT**  
**WAVE**

Devices

## Wide Variety of Sizes



Bootstrap

## Five Responsive Tiers

To make websites responsive,  
Bootstrap categorizes devices into

### Five Responsive Tiers

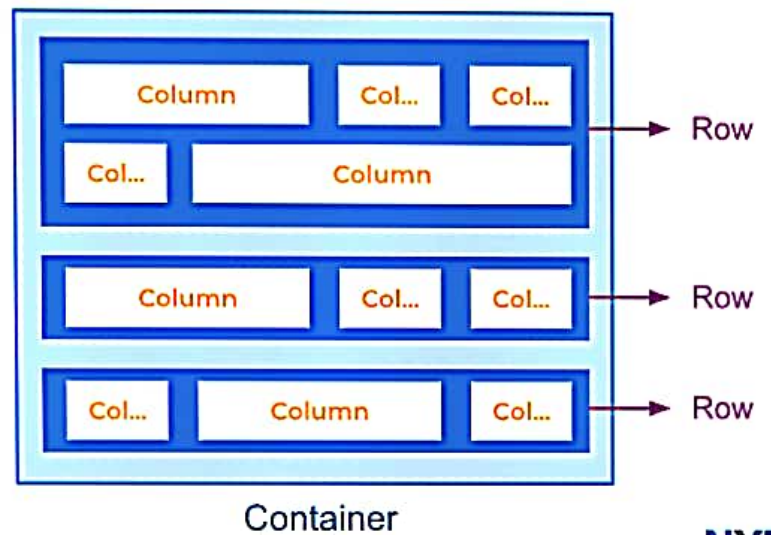
These are known as **Responsive Breakpoints**

Device	Device Size(width)
Extra small devices	< 576px
Small devices	>= 576px
Medium devices	>= 768px
Large devices	>= 992px
Extra large devices	>= 1200px

## How it works

Bootstrap Grid system is made up of 3 things:

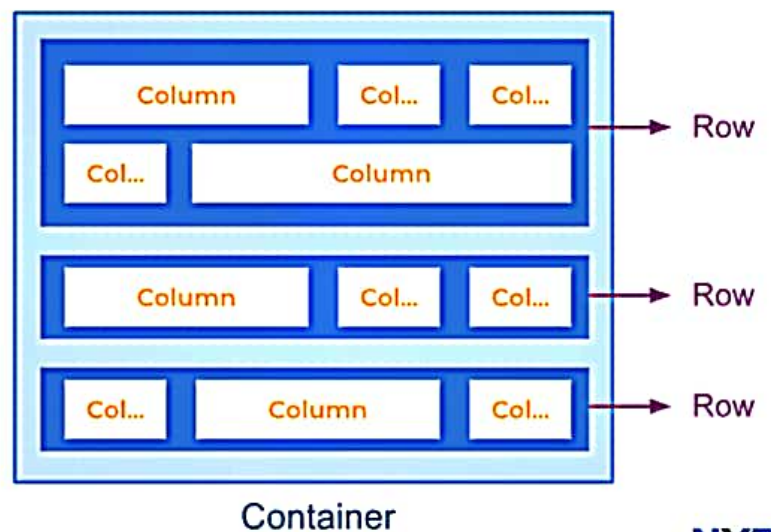
- Container
- Rows
- Columns



## How it works

A **Container** consists of Rows and Columns

All the **Content** should be placed inside these Columns



## Bootstrap Grid System

# How it works



Bootstrap

## Grid System

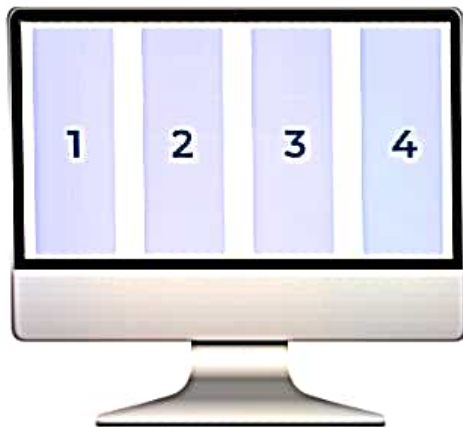
Bootstrap Grid System uses  
**12 column system** for layouting  
We can create up to **12 columns**  
across the page





Grid System

## Different Column Systems



4 Column System



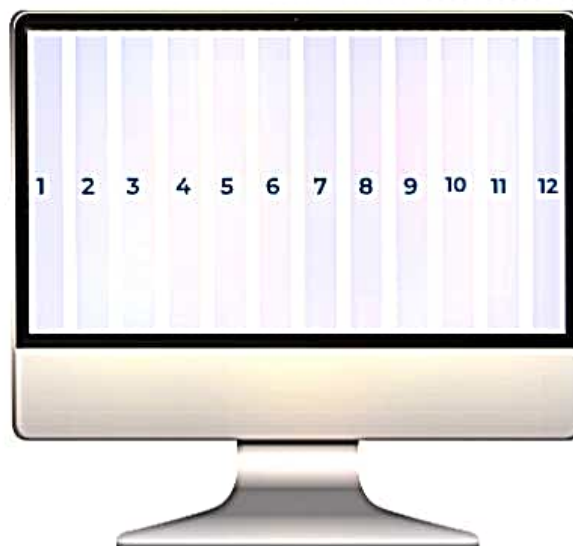
8 Column System



12 Column System

Bootstrap Grid System

## 12 Column System



# 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 v4.3.1



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# Columns Representation

## Bootstrap

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1

2

3

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8

9

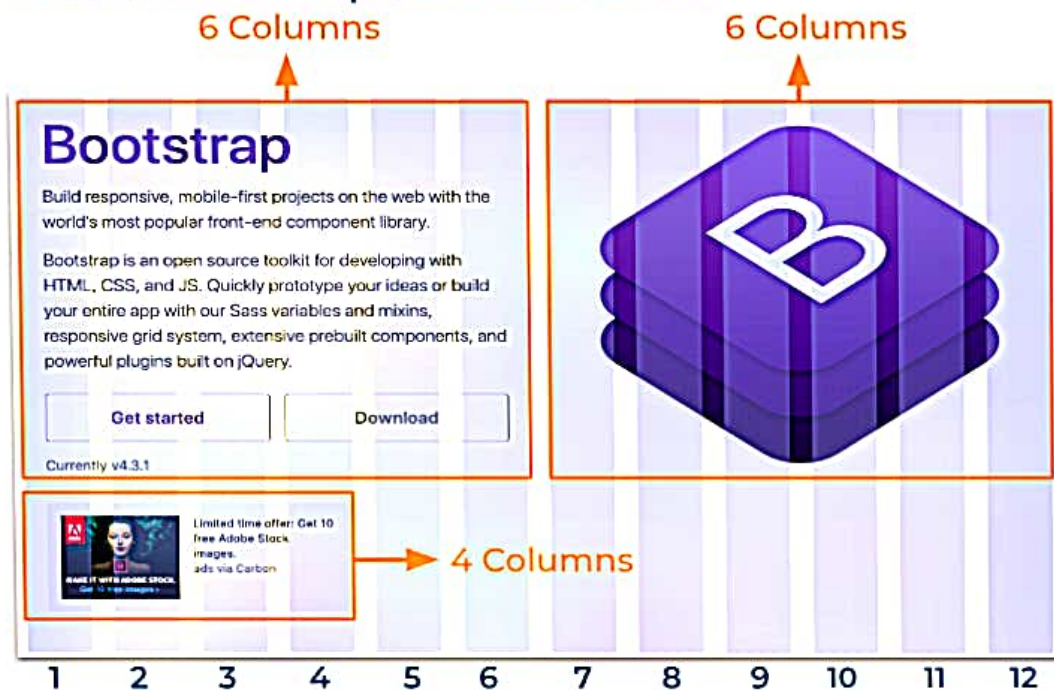
10

11

12

## Bootstrap Grid System

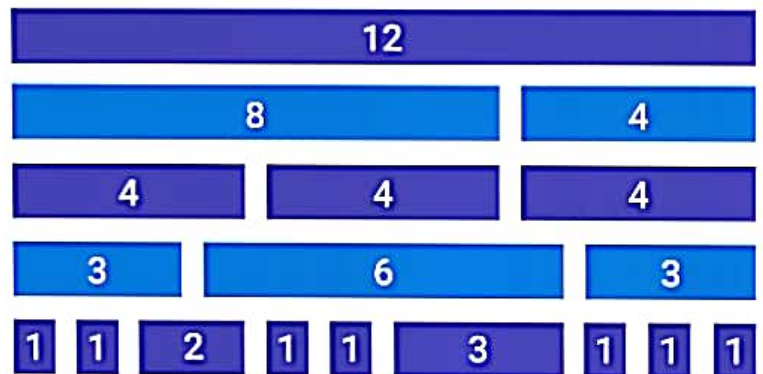
# Columns Representation



## Specifying number of Columns

We can specify number of columns our content should occupy in any device

The number of columns we specify should be any number in range of 1 to 12





## How to Create a Layout Using Bootstrap Grid System?

## Container

A **Container** is a div Element with a class name **container**

The purpose of the Container is to **hold** Rows and Columns

```
<div class="container">  
  ...  
</div>
```



## Row

A **Row** is a div Element  
with a classname **row**

The purpose of Row is to  
**wrap** all the Columns

```
<div class="container">  
  <div class="row">  
    ...  
  </div>  
</div>
```

Bootstrap Grid System

## Column

A Column is a div Element with a classname `col-*`

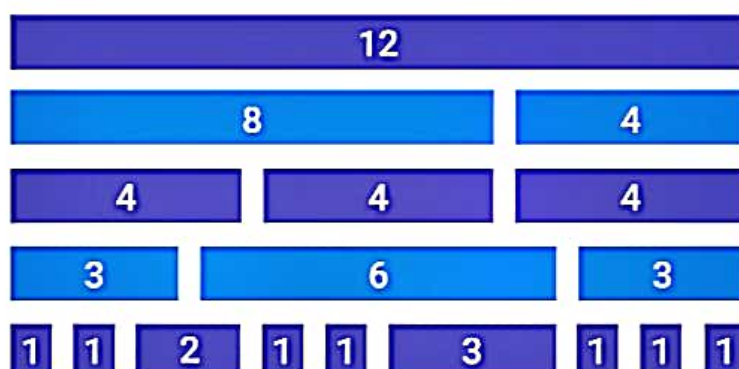
We place all our **content** inside this Column

```
<div class="container">
  <div class="row">
    <div class="col-12">
      I'm your content inside the grid!
    </div>
  </div>
</div>
```

## Specifying number of Columns

Add a number to `col-*` in classname to specify the number of Columns

If classname is `col-12` it will occupy entire width available inside the row





## Creating Multiple Column Layouts

Bootstrap Grid System

## One Column Layout

HTML

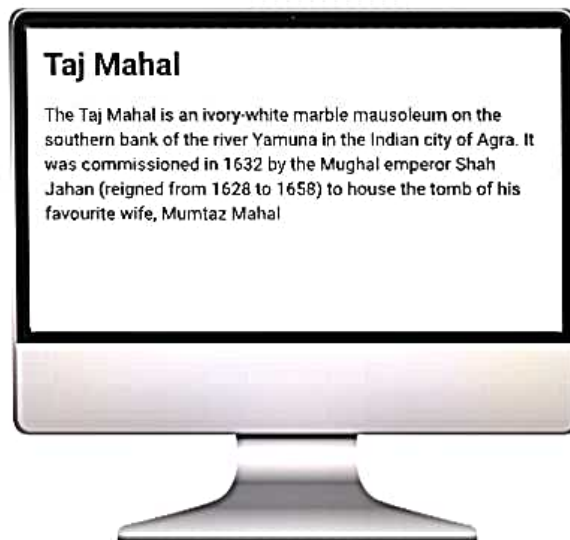
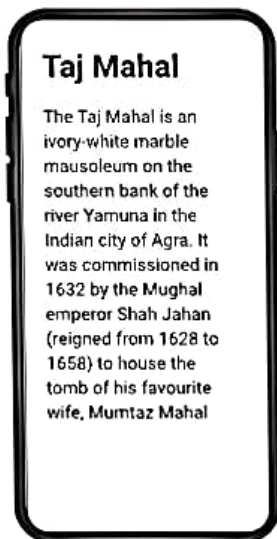
```
<div class="container">
  <div class="row">
    <div class="col-12">
      <h1 class="heading">Taj Mahal</h1>
      <p>
        The Taj Mahal is an ivory-white...
      </p>
    </div>
  </div>
</div>
```

CSS

```
.heading {
  font-size: 24px;
  font-weight: bold;
}
```

Output in Different Devices

## One Column Layout



Bootstrap Grid System

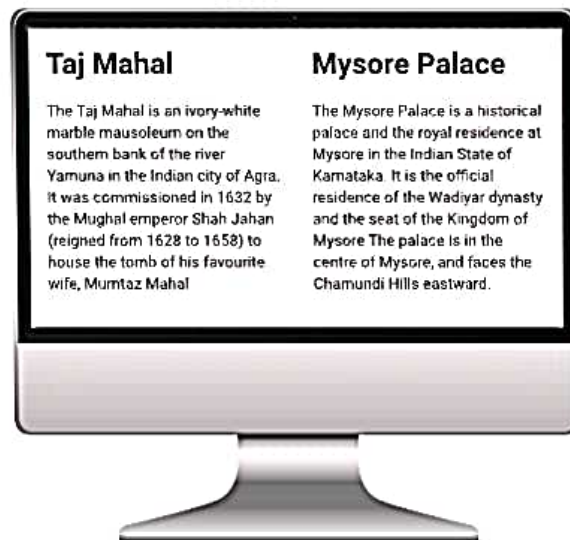
## Two Column Layout

HTML

```
<div class="container">
  <div class="row">
    <div class="col-6">
      ...
    </div>
    <div class="col-6">
      ...
    </div>
  </div>
</div>
```

Output in different Devices

## Two Column Layout





Bootstrap Grid System

## Three Column Layout

HTML

```
<div class="container">
  <div class="row">
    <div class="col-4">...</div>
    <div class="col-4">...</div>
    <div class="col-4">...</div>
  </div>
</div>
```

Three Column Layout

## Output

### Taj Mahal

The Taj Mahal is an ivory-white marble mausoleum on the southern bank of the river Yamuna in the Indian city of Agra. It was commissioned in 1632 by the Mughal emperor Shah Jahan (reigned from 1628 to 1658) to house the tomb of his favourite wife, Mumtaz Mahal

### Mysore Palace

The Mysore Palace is a historical palace and the royal residence at Mysore in the Indian State of Karnataka. It is the official residence of the Wadiyar dynasty and the seat of the Kingdom of Mysore. The palace is in the centre of Mysore, and faces the Chamundi Hills eastward.

### Golden Temple

The Mysore Palace is a historical palace and the royal residence at Mysore in the Indian State of Karnataka. It is the official residence of the Wadiyar dynasty and the seat of the Kingdom of Mysore. The palace is in the centre of Mysore, and faces the Chamundi Hills eastward.

Introduction to Responsive Web Design

## Key Takeaways (Part 1/2)

- ✓ Responsive Web Design
- ✓ Bootstrap Grid System
  - Five Responsive Tiers
  - Container
  - Row
  - Column
- ✓ 12 Column System



## Key Takeaways (Part 2/2)

- ✓ Multiple Column Layouts
  - One Column Layout
  - Two Column Layout
  - Three Column Layout





Next Session

# Bootstrap Grid System



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**THANK YOU**

