# Overview of Bootstrap

**Spoken Tutorial Project**
**https://spoken-tutorial.org**
**National Mission on Education through ICT**
**http://sakshat.ac.in**

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**IIT Bombay**

**12 October 2021**

# Learning Objectives

**In this tutorial, we will learn about:**

# Learning Objectives

**In this tutorial, we will learn about:**

- ▶ **Bootstrap**

# Learning Objectives

**In this tutorial, we will learn about:**

- ▶ **Bootstrap**
- ▶ **Features of Bootstrap**

# Learning Objectives

**In this tutorial, we will learn about:**

- ▶ **Bootstrap**
- ▶ **Features of Bootstrap**
- ▶ **The content available in various tutorials under this series**

# System Requirements

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**This tutorial is recorded using**

# System Requirements

**This tutorial is recorded using**
- **Ubuntu Linux OS v 18.04**

# Prerequisite

**To follow this tutorial, you should have basic knowledge of**

# Prerequisite

**To follow this tutorial, you should have basic knowledge of**

- ▶ HTML

# Prerequisite

**To follow this tutorial, you should have basic knowledge of**

- HTML
- CSS

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# Prerequisite

**To follow this tutorial, you should have basic knowledge of**

- HTML
- CSS

**If not, please go through the relevant spoken tutorials on https://spoken-tutorial.org**

# About Bootstrap:

# About Bootstrap:

▶ `Bootstrap` **is an open-source and front-end framework**

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- ▶ `Bootstrap` **is an open-source and front-end framework**

- ▶ **It includes** `CSS` **and** `HTML` **based designs**

# About Bootstrap:

▶ `Bootstrap` **is an open-source and front-end framework**

▶ **It includes** `CSS` **and** `HTML` **based designs**

▶ **It is useful for easy and fast** `web development`

# About Bootstrap:

# About Bootstrap:

- **It creates responsive** `web pages` **which automatically adjust as per screen size**

# Features of Bootstrap:

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▶ Time saving: **It has predefined design templates and** classes **which help save time**

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▶ Time saving: **It has predefined design templates and** classes **which help save time**

▶ Responsive property: **It easily creates responsive** web pages

# Features of Bootstrap:

▶ `Time saving:` **It has predefined design templates and** `classes` **which help save time**

▶ `Responsive property:` **It easily creates responsive** `web pages`

▶ `Easy to use:` **Basic knowledge of** `HTML` **and** `CSS` **are required**

# Features of Bootstrap:

► Open-source: **It is freely available**

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▶ Browser compatibility: **It is compatible with all modern** web browsers

# Features of Bootstrap:

▶ Open-source: **It is freely available**

▶ Browser compatibility: **It is compatible with all modern** web browsers

▶ Javascript Plugins: **There are numerous** JavaScript plugins **bundled in the** Bootstrap package

# Note:

# Note:

- ▶ Bootstrap 4 **does not support** Internet Explorer 9 **and lower versions**

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- ▶ Bootstrap 3 **is used for them**

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▶ Bootstrap 4 **does not support** Internet Explorer 9 **and lower versions**

▶ Bootstrap 3 **is used for them**

▶ **In this course, we will use** Bootstrap 4

# Who can use Bootstrap?

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**Bootstrap can be used by**

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**Bootstrap can be used by**

- ▶ **Web designers**

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# Who can use Bootstrap?

**Bootstrap can be used by**

- ▶ **Web designers**
- ▶ **Web developers**
- ▶ **Software developers**

# Introduction to Bootstrap

# Introduction to Bootstrap

**In this tutorial, we will learn to**

# Introduction to Bootstrap

**In this tutorial, we will learn to**

- ▶ **Download and use Bootstrap version 4.6.0**

# Introduction to Bootstrap

**In this tutorial, we will learn to**

- **Download and use Bootstrap version 4.6.0**

- **Include Bootstrap version 4.6.0 from CDN link**

# Containers in Bootstrap

# Containers in Bootstrap

**It explains about**

# Containers in Bootstrap

**It explains about**

- **Containers**

# Containers in Bootstrap

**It explains about**

- ▶ **Containers**
- ▶ **Breakpoints**

# Containers in Bootstrap

**It explains about**

▶ **Containers**

▶ **Breakpoints**

▶ **Types of container classes such as**

# Containers in Bootstrap

**It explains about**

- **Containers**
- **Breakpoints**
- **Types of container classes such as**
  - **.container**

# Containers in Bootstrap

**It explains about**

- **Containers**

- **Breakpoints**

- **Types of container classes such as**
  - **.container**
  - **.container-fluid**

# Containers in Bootstrap

**It explains about**

- **Containers**
- **Breakpoints**
- **Types of container classes such as**
  - .container
  - .container-fluid
  - .container-breakpoint

# Grid System in Bootstrap

# Grid System in Bootstrap

**Here, we will learn about:**

# Grid System in Bootstrap

**Here, we will learn about:**

▶ **Row class**

# Grid System in Bootstrap

**Here, we will learn about:**

▶ **Row class**

▶ **Column class**

# Grid System in Bootstrap

**Here, we will learn about:**

- ▶ **Row class**
- ▶ **Column class**
- ▶ **Column class with breakpoints**

# Grid System in Bootstrap

**Here, we will learn about:**

- ▶ **Row class**
- ▶ **Column class**
- ▶ **Column class with breakpoints**
- ▶ **12 Column class**

# Grid System in Bootstrap

**Here, we will learn about:**

- ▶ **Row class**
- ▶ **Column class**
- ▶ **Column class with breakpoints**
- ▶ **12 Column class**
- ▶ **12 Column class with breakpoints**

# Order and Offset Classes in Bootstrap

# Order and Offset Classes in Bootstrap

**In this tutorial, we will learn about**

# Order and Offset Classes in Bootstrap

**In this tutorial, we will learn about**

▶ **Order classes**

# Order and Offset Classes in Bootstrap

**In this tutorial, we will learn about**

- ▶ **Order classes**
- ▶ **Offset classes**

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# Order and Offset Classes in Bootstrap

**In this tutorial, we will learn about**

- ▶ **Order classes**
- ▶ **Offset classes**

**while designing a layout**

# Margin and Padding Classes in Bootstrap

# Margin and Padding Classes in Bootstrap

**In this tutorial, we will learn about**

# Margin and Padding Classes in Bootstrap

**In this tutorial, we will learn about**

▶ **Margin classes**

# Margin and Padding Classes in Bootstrap

**In this tutorial, we will learn about**

▶ **Margin classes**

▶ **Padding classes**

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- ▶ **Margin classes**
- ▶ **Padding classes**

**while designing a layout**

# Horizontal and Vertical Alignment Classes in Bootstrap

# Horizontal and Vertical Alignment Classes in Bootstrap

**Here, we will learn how to use**

# Horizontal and Vertical Alignment Classes in Bootstrap

**Here, we will learn how to use**

▶ **Horizontal alignment classes**

# Horizontal and Vertical Alignment Classes in Bootstrap

**Here, we will learn how to use**

▶ **Horizontal alignment classes**

▶ **Vertical alignment classes**

# Horizontal and Vertical Alignment Classes in Bootstrap

**Here, we will learn how to use**

- ▶ **Horizontal alignment classes**
- ▶ **Vertical alignment classes**

# Horizontal and Vertical Alignment Classes in Bootstrap

**Here, we will learn how to use**

- **Horizontal alignment classes**
- **Vertical alignment classes**

**for aligning columns in a row**

# Typography in Bootstrap

# Typography in Bootstrap

**In this tutorial, we will learn how to use:**

# Typography in Bootstrap

**In this tutorial, we will learn how to use:**

- **Text Alignment**

# Typography in Bootstrap

**In this tutorial, we will learn how to use:**

▶ **Text Alignment**

▶ **Text Transform**

# Typography in Bootstrap

**In this tutorial, we will learn how to use:**

- ▶ **Text Alignment**
- ▶ **Text Transform**
- ▶ **Font Weight and Italic**

# Typography in Bootstrap

▶ **Text Decoration**

# Typography in Bootstrap

▶ **Text Decoration**

▶ **Reset Color**

# Typography in Bootstrap

- ▶ **Text Decoration**
- ▶ **Reset Color**
- ▶ **Display headings**

# Typography in Bootstrap

- ▶ **Text Decoration**
- ▶ **Reset Color**
- ▶ **Display headings**

# Typography in Bootstrap

▶ **Text Decoration**

▶ **Reset Color**

▶ **Display headings**

**for styling and formatting text in Bootstrap**

# Color Classes in Bootstrap

# Color Classes in Bootstrap

**Here, we will learn about color classes for:**

# Color Classes in Bootstrap

**Here, we will learn about color classes for:**

▶ **Borders**

# Color Classes in Bootstrap

**Here, we will learn about color classes for:**

▶ **Borders**

▶ **Text**

# Color Classes in Bootstrap

Here, we will learn about color classes for:

- ▶ **Borders**
- ▶ **Text**
- ▶ **Links**

# Color Classes in Bootstrap

Here, we will learn about color classes for:

- ▶ **Borders**
- ▶ **Text**
- ▶ **Links**
- ▶ **Background**

# Forms in Bootstrap

# Forms in Bootstrap

**In this tutorial, we will learn about:**

# Forms in Bootstrap

**In this tutorial, we will learn about:**

- **Form controls**

# Forms in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Form controls**
- ▶ **Help text**

# Forms in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Form controls**
- ▶ **Help text**
- ▶ **Sizing**

# Forms in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Form controls**
- ▶ **Help text**
- ▶ **Sizing**
- ▶ **Read-only plain text**

# Forms in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Form controls**
- ▶ **Help text**
- ▶ **Sizing**
- ▶ **Read-only plain text**
- ▶ **Checkboxes and radio buttons**

# Forms in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Form controls**
- ▶ **Help text**
- ▶ **Sizing**
- ▶ **Read-only plain text**
- ▶ **Checkboxes and radio buttons**
- ▶ **File inputs**

# Input Group and Button in Bootstrap

# Input Group and Button in Bootstrap

**In this tutorial, we will learn about:**

# Input Group and Button in Bootstrap

**In this tutorial, we will learn about:**

▶ **Input group**

# Input Group and Button in Bootstrap

**In this tutorial, we will learn about:**

▶ **Input group**

▶ **Input group sizing**

# Input Group and Button in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Input group**
- ▶ **Input group sizing**
- ▶ **Button**

# Input Group and Button in Bootstrap

**In this tutorial, we will learn about:**

▶ **Input group**

▶ **Input group sizing**

▶ **Button**

▶ **Button classes**

# Input Group and Button in Bootstrap

▶ **Outline button classes**

# Input Group and Button in Bootstrap

▶ **Outline button classes**

▶ **Disabled state button**

# Input Group and Button in Bootstrap

▶ **Outline button classes**

▶ **Disabled state button**

▶ **Button sizes**

# Inline Forms in Bootstrap

# Inline Forms in Bootstrap

**In this tutorial, we will learn about:**

# Inline Forms in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Block level buttons**

# Inline Forms in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Block level buttons**
- ▶ **Inline forms**

# Nav and Navbar in Bootstrap

# Nav and Navbar in Bootstrap

**Here, we will learn about:**

# Nav and Navbar in Bootstrap

**Here, we will learn about:**

- ▶ **Navigation**

# Nav and Navbar in Bootstrap

**Here, we will learn about:**

- ▶ **Navigation**
- ▶ **Navigation methods**

# Nav and Navbar in Bootstrap

**Here, we will learn about:**

▶ **Navigation**

▶ **Navigation methods**

▶ **Horizontal alignment**

# Nav and Navbar in Bootstrap

**Here, we will learn about:**

▶ **Navigation**

▶ **Navigation methods**

▶ **Horizontal alignment**

▶ **Tabs and pills**

# Nav and Navbar in Bootstrap

**Here, we will learn about:**

- ▶ **Navigation**
- ▶ **Navigation methods**
- ▶ **Horizontal alignment**
- ▶ **Tabs and pills**
- ▶ **Fill and justify**

# Nav and Navbar in Bootstrap

**Here, we will learn about:**

- ▶ **Navigation**
- ▶ **Navigation methods**
- ▶ **Horizontal alignment**
- ▶ **Tabs and pills**
- ▶ **Fill and justify**
- ▶ **Collapsible navbar**

# Dropdowns in Bootstrap

# Dropdowns in Bootstrap

**In this tutorial, we will learn about:**

# Dropdowns in Bootstrap

**In this tutorial, we will learn about:**

▶ **Dropdowns**

# Dropdowns in Bootstrap

**In this tutorial, we will learn about:**

▶ **Dropdowns**

▶ **Dropdown classes**

# Dropdowns in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Dropdowns**
- ▶ **Dropdown classes**
- ▶ **Dropdown divider**

# Dropdowns in Bootstrap

**In this tutorial, we will learn about:**

- **Dropdowns**
- **Dropdown classes**
- **Dropdown divider**
- **Dropdown position**

# List Group in Bootstrap

# List Group in Bootstrap

**Here, we will learn about:**

# List Group in Bootstrap

**Here, we will learn about:**

▶ **List group**

# List Group in Bootstrap

**Here, we will learn about:**

▶ **List group**

▶ **Active and disabled item**

# List Group in Bootstrap

Here, we will learn about:

- ▶ List group
- ▶ Active and disabled item
- ▶ List group with links and buttons

# List Group in Bootstrap

Here, we will learn about:

- List group
- Active and disabled item
- List group with links and buttons
- Contextual classes

# Alert and Badge in Bootstrap

# Alert and Badge in Bootstrap

**In this tutorial, we will learn about:**

# Alert and Badge in Bootstrap

**In this tutorial, we will learn about:**

▶ **Alert and its classes**

# Alert and Badge in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Alert and its classes**
- ▶ **Badge and its classes**

# Alert and Badge in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Alert and its classes**
- ▶ **Badge and its classes**
- ▶ **Badge as label**

# Alert and Badge in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Alert and its classes**
- ▶ **Badge and its classes**
- ▶ **Badge as label**
- ▶ **Badge as counter**

# Alert and Badge in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Alert and its classes**
- ▶ **Badge and its classes**
- ▶ **Badge as label**
- ▶ **Badge as counter**
- ▶ **Badge pill**

# Jumbotron and Breadcrumb in Bootstrap

# Jumbotron and Breadcrumb in Bootstrap

**In this tutorial, we will learn about:**

# Jumbotron and Breadcrumb in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Jumbotron**

# Jumbotron and Breadcrumb in Bootstrap

**In this tutorial, we will learn about:**

- ▶ **Jumbotron**
- ▶ **Breadcrumb**

# Jumbotron and Breadcrumb in Bootstrap

# Jumbotron and Breadcrumb in Bootstrap

▶ **Here, we will display the contents such as heading, paragraph, etc. using Jumbotron**

# Jumbotron and Breadcrumb in Bootstrap

- ▶ **Here, we will display the contents such as heading, paragraph, etc. using Jumbotron**

- ▶ **In the Login page, we will add breadcrumb such as** `Home/Login`

# Summary

**In this tutorial, we have learnt:**

- ▶ **Bootstrap**
- ▶ **Features of Bootstrap**
- ▶ **The content available in various tutorials under this series**

# About Spoken Tutorial project

- ▶ Watch the video available at
  **https://spoken-tutorial.org
  /What_is_a_Spoken_Tutorial**

- ▶ It summarises the Spoken Tutorial
  project

- ▶ If you do not have good
  bandwidth, you can download
  and watch it

# Spoken Tutorial Workshops

**The Spoken Tutorial Project Team**

▶ **Conducts workshops using spoken tutorials**

▶ **Gives certificates to those who pass an online test**

▶ **For more details, please write to contact@spoken-tutorial.org**

# Answers for THIS Spoken Tutorial

▶ **Questions in THIS Spoken Tutorial?**

▶ **Visit**
   **https://forums.spoken-tutorial.org**

▶ **Choose the minute and second where you have the question**

▶ **Explain your question briefly**

▶ **The Spoken Tutorial project will ensure an answer**

**You will have to register to ask questions**

# Forum for specific questions:

- ► The Spoken tutorial forum is for specific questions on this tutorial

- ► Please do not post unrelated and general questions on them

- ► This will help reduce the clutter

- ► With less clutter, we can use these discussions as instructional material

# Acknowledgements

- **Spoken Tutorial project is funded by Ministry of Education (MoE), Govt. of India**

# Thank You

**Thanks for watching**

**https://spoken-tutorial.org**