Grid System in Bootstrap

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

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10 March 2021

Learning Objectives

In this tutorial, we will learn about:

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▶ Row class

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▶ Column class with breakpoints

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▶ 12 Column class

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System Requirements

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▶ Ubuntu Linux OS v 18.04

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- Ubuntu Linux OS v 18.04
- Bootstrap 4.6.0

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► HTML5

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▶ gedit **Text Editor**

System Requirements

- Ubuntu Linux OS v 18.04
- Bootstrap 4.6.0
- HTML5
- CSS3
- gedit **Text Editor**
- Firefox **Web Browser**

Prerequisite

► **To follow this tutorial, you should be familiar with** `HTML` **and** `CSS`

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▶ **To follow this tutorial, you should be familiar with** HTML **and** CSS

▶ **If not, please go through the** HTML **and** CSS **tutorials on https://spoken-tutorial.org**

Grid System

▶ Grid system **uses a** container, row **and** column **in series**

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Code Files

▶ **The files used in this tutorial are available in the** `Code Files` **link on this tutorial page**

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- **Make a copy and then use them while practising**

Column Class

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▶ `.col class` **is used to create** `columns` **of equal width**

Column Class

- `.col` class **is used to create** `columns` **of equal width**

- `.col-auto` class **is used to create** `columns` **that have width according to the content inside it**

Column Class with Breakpoints

Column Class with Breakpoints

Breakpoint	Extra Small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra Large ≥1200px
.col class	--	.col-sm	.col-md	.col-lg	.col-xl

Column Class with Breakpoints

Breakpoint	Extra Small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra Large ≥1200px
.col-auto class	--	.col-sm-auto	.col-md-auto	.col-lg-auto	.col-xl-auto

12 Column Class

12 Column Class

▶ **A** `row` **is divided into 12 equal width** `columns`

12 Column Class

▶ **A** `row` **is divided into 12 equal width** `columns`

▶ `.col-{*}` `class` **is used to create** `columns` **of equal and unequal widths**

12 Column Class

► **A** `row` **is divided into 12 equal width** `columns`

► `.col-{*}` `class` **is used to create** `columns` **of equal and unequal widths**

► ∗ **represents the number of** `columns` **out of 12**

12 Column Class - Example

▶ **Few** `columns` **can be combined to create a single** `column`

12 Column Class - Example

▶ **Few** `columns` **can be combined to create a single** `column`
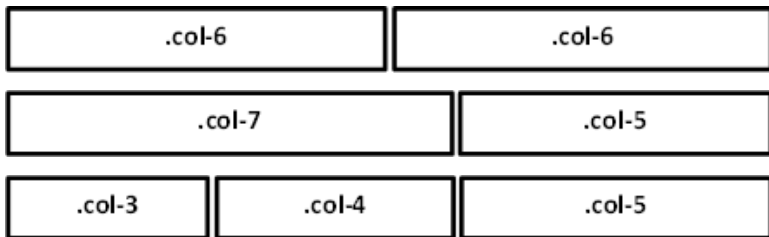
.col-6	.col-6

12 Column Class - Example

▶ **Few** `columns` **can be combined to create a single** `column`

.col-6	.col-6

.col-7	.col-5

12 Column Class - Example

▶ **Few** `columns` **can be combined to create a single** `column`

.col-6	.col-6

.col-7	.col-5

.col-3	.col-4	.col-5

12 Column Class with Breakpoints

12 Column Class with Breakpoints

Breakpoint	Extra Small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra Large ≥1200px
12 Column class	--	.col-sm-{*}	.col-md-{*}	.col-lg-{*}	.col-xl-{*}

Summary

In this tutorial, we have learnt:

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

Assignment

▶ **Open the** `Mypage.html` **file**
▶ **For** `2nd row` **change the** `column class` **to**
  ▶ `.col-sm-3` **for** `1st column`
  ▶ `.col-sm-9` **for** `2nd column`

▶ **For** `3rd row` **change all the** `column class` **to** `.col-sm-3`

Assignment

- ▶ **Open the** `Mystyle.css` **file**
- ▶ **Set** `2px solid navy border` **for** `.col-sm-3` **and** `.col-sm-9 classes`
- ▶ **Save both the files**
- ▶ **Observe the output on the** `web browser`

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

Acknowledgements

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

Thanks for watching

https://spoken-tutorial.org