<https://www.youtube.com/watch?v=sTi_hcaBmsg&list=PLdajQmV2DgoSN5_-w06dk9P3pCZq1Qsw8>

유투브 정리

<http://www.w3schools.com/bootstrap/default.asp>

<!-- Latest compiled and minified CSS -->  
<link rel="stylesheet"href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">  
<!-- jQuery library -->  
<scriptsrc="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>  
<!-- Latest compiled JavaScript -->  
<scriptsrc="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>

container 적용

|  |  |
| --- | --- |
| 정해진 길이 | 전체 길이 |
| .container | .container-fluid |
| **3. Containers**  Bootstrap also requires a containing element to wrap site contents.  There are two container classes to choose from:   1. The .container class provides a responsive **fixed width container** 2. The .container-fluid class provides a **full width container**, spanning the entire width of the viewport   **Note:** Containers are not nestable (you cannot put a container inside another container). | |

## Bootstrap Grid System

Bootstrap's grid system allows up to 12 columns across the page.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 |
| span 4 | | | | span 4 | | | | span 4 | | | |
| span 4 | | | | span 8 | | | | | | | |
| span 6 | | | | | | span 6 | | | | | |
| span 12 | | | | | | | | | | | |

If you do not want to use all 12 column individually, you can group the columns together to create wider columns:

Bootstrap's grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

## Grid Classes

The Bootstrap grid system has four classes:

* xs (for phones)
* sm (for tablets)
* md (for desktops)
* lg (for larger desktops)

The classes above can be combined to create more dynamic and flexible layouts.

## Basic Structure of a Bootstrap Grid

The following is a basic structure of a Bootstrap grid:

<div class="row">  
  <div class="col-\*-\*"></div>  
</div>  
<div class="row">  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
</div>  
<div class="row">  
  ...  
</div>

First; create a row (<div class="row">). Then, add the desired number of columns (tags with appropriate .col-\*-\* classes). Note that numbers in .col-\*-\* should always add up to 12 for each row.

Below we have collected some examples of basic Bootstrap grid layouts.

## Three Equal Columns

.col-sm-4

.col-sm-4

.col-sm-4

The following example shows how to get a three equal-width columns starting at tablets and scaling to large desktops. On mobile phones, the columns will automatically stack:

### Example

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

[Try it Yourself »](http://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_grid_ex1&stacked=h)

xs :

sm : column width ~62px

md :

lg :

## Two Unequal Columns

.col-sm-4

.col-sm-8

The following example shows how to get two various-width columns starting at tablets and scaling to large desktops:

### Example

<div class="row">  
  <div class="col-sm-4">.col-sm-4</div>  
  <div class="col-sm-8">.col-sm-8</div>  
</div>

[Try it Yourself »](http://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_grid_ex3&stacked=h)

|  |  |
| --- | --- |
| **Note** | **Tip:** You will learn more about Bootstrap grids later in this tutorial. |

Grid options

See how aspects of the Bootstrap grid system work across multiple devices with a handy table.

|  | **Extra small devicesPhones (<768px)** | **Small devices Tablets (≥768px)** | **Medium devicesDesktops (≥992px)** | **Large devices Desktops (≥1200px)** |
| --- | --- | --- | --- | --- |
| **Grid behavior** | Horizontal at all times | Collapsed to start, horizontal above breakpoints | | |
| **Container width** | None (auto) | 750px | 970px | 1170px |
| **Class prefix** | .col-xs- | .col-sm- | .col-md- | .col-lg- |
| **# of columns** | 12 | | | |
| **Column width** | Auto | ~62px | ~81px | ~97px |
| **Gutter width** | 30px (15px on each side of a column) | | | |
| **Nestable** | Yes | | | |
| **Offsets** | Yes | | | |
| **Column ordering** | Yes | | | |