

**NXT
WAVE**

WELCOME





CCBP 4.0

21st Century Skills

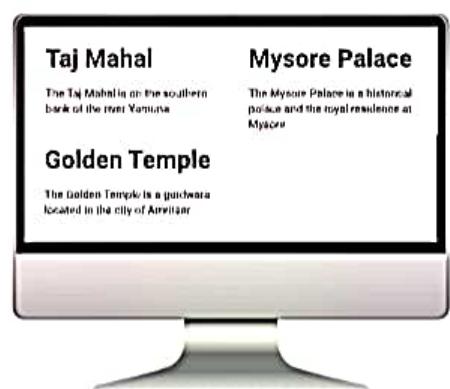
Bootstrap Grid System

Part 2

Recap

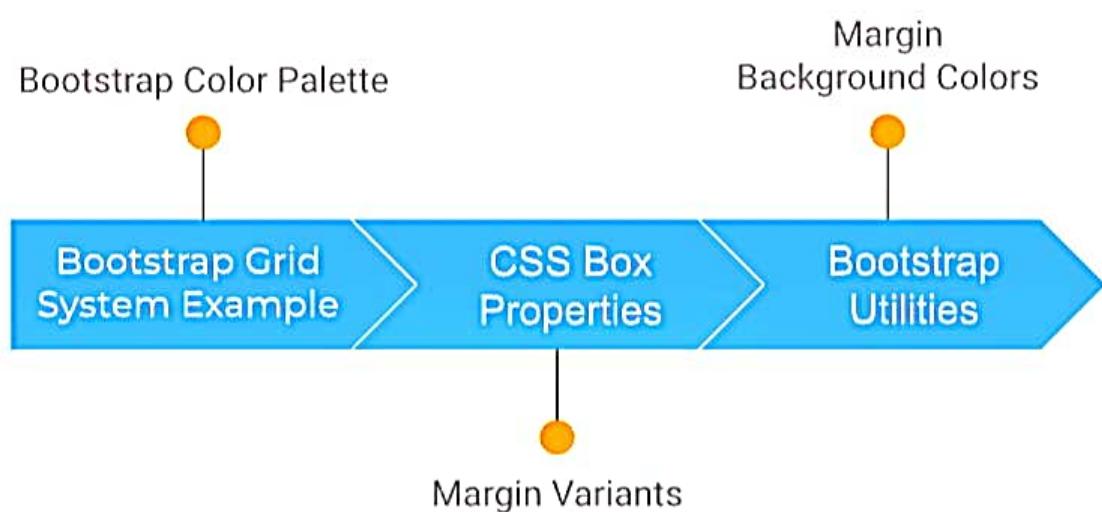
Bootstrap Grid System

- ✓ Column Wrapping
- ✓ Bootstrap Responsive Breakpoints
 - Class name prefixes for different Breakpoints
 - Using class name prefixes in combination



Agenda

Bootstrap Grid System | Part 2

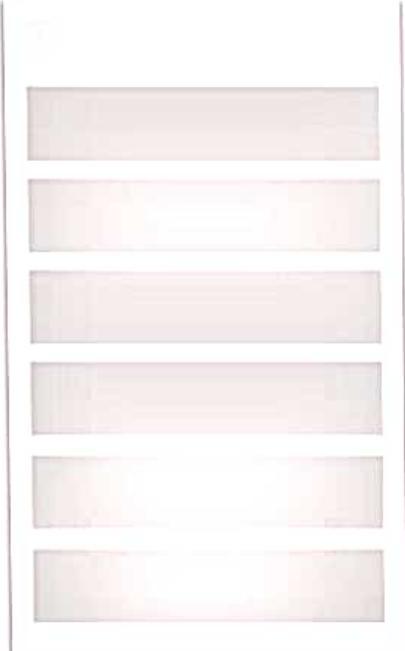


Let's build a Bootstrap Color Palette



Bootstrap Responsive Breakpoints

Extra Small & Small Devices

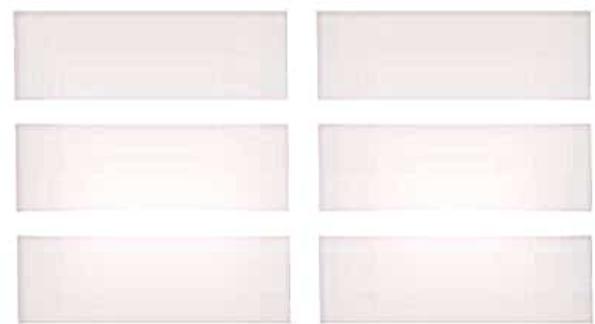


Bootstrap Color Palette

Primary
Secondary
Success
Info
Warning
Danger

Bootstrap Responsive Breakpoints

Medium Devices



Bootstrap Color Palette

Primary	Secondary
Success	Info
Warning	Danger

Bootstrap Responsive Breakpoints

Large Devices

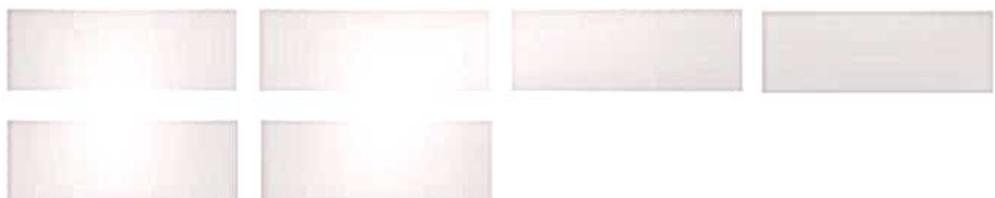


Bootstrap Color Palette

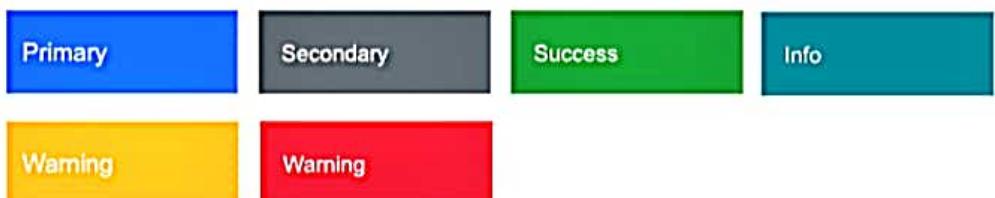
Primary	Secondary	Success
Info	Warning	Danger

Bootstrap Responsive Breakpoints

Extra Large Devices



Bootstrap Color Palette



Let's add a Heading
to our Color Palette



Bootstrap Color Palette

Adding a Heading

HTML

```
<body>
  <h1 class="color-palette-heading">
    Bootstrap Color Palette
  </h1>
</body>
```

CSS

```
.color-palette-heading {
  font-size: 24px;
  text-align: center;
  font-weight: bold;
}
```

Bootstrap Color Palette

Let's add
Color Boxes

Bootstrap Color Palette



Bootstrap Grid System

Mobile First Approach



Bootstrap Grid System

Adding Container, Row and Column

HTML

```
<h1 class="color-palette-heading"> Bootstrap Color Palette </h1>
<div class="container">
  <div class="row">
    <div class="col-12">
      ...
    </div>
  </div>
</div>
```

Bootstrap Background Color Utility

Class Names

bg-primary



bg-secondary



bg-success



bg-info



bg-warning



bg-danger



bg-light



bg-dark



bg-white



Extra Small And Small Devices

Adding First Color Box

HTML

```
<div class="container">
  <div class="row">
    <div class="col-12">
      <div class="color-box bg-primary">
        <p class="color-name"> Primary </p>
      </div>
    </div>
  </div>
</div>
```

CSS

```
.color-box {
  padding: 30px;
}

.color-name {
  color: white;
  font-size: 20px;
}
```

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Adding First Color Box

Output



Extra Small And Small Devices

Adding Remaining Color Boxes

HTML

```
...
<div class="row">
  ...
    <div class="col-12">
      <div class="color-box bg-secondary">
        <p class="color-name"> Secondary </p>
      </div>
    </div>
    <div class="col-12">...</div>
    <div class="col-12">...</div>
    <div class="col-12">...</div>
    <div class="col-12">...</div>
  </div>
...

```

Extra Small And Small Devices Output



Why is there a space on the
Left and Right?



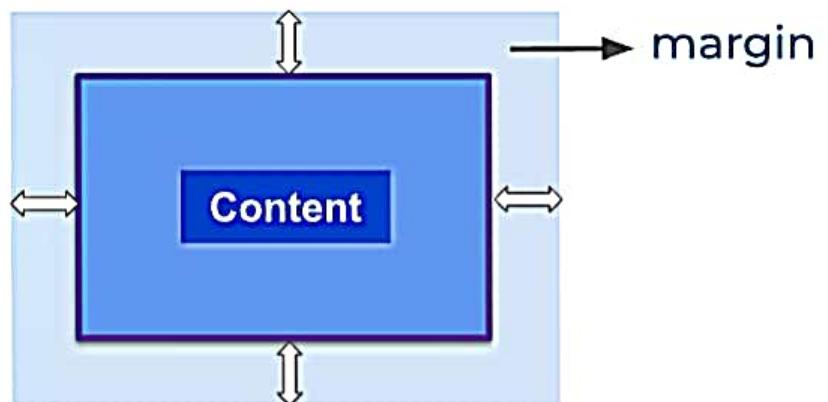
How to have Spacing after Each Bootstrap Grid Column?



CSS Box Properties

Margin

We can have spacing
between two elements with CSS
Box Property- **margin**

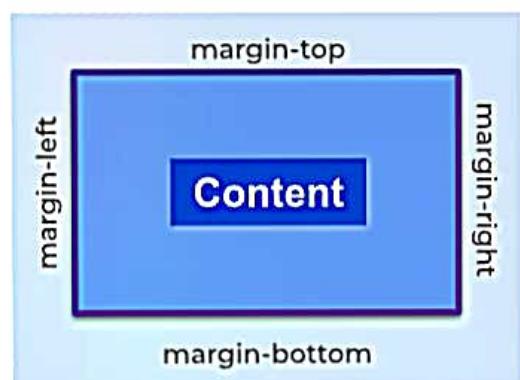


CSS Box Properties

Margin Variants

To get space only on one particular side,
we use Margin Variants

- margin-top
- margin-right
- margin-bottom
- margin-left



Bootstrap Color Palette

Adding Margin Bottom

HTML

```
...
<div class="row">
  <div class="col-12 column-spacing">...</div>
  <div class="col-12 column-spacing">...</div>
</div>
...

```

CSS

```
.column-spacing {
  margin-bottom: 30px;
}
```

Extra Small And Small Devices

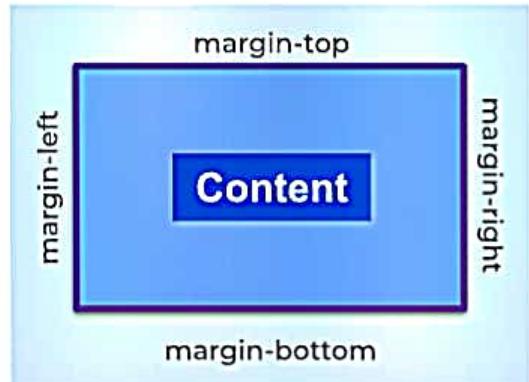
Output



Bootstrap Utilities for Spacing

Margin

margin	m-*
margin-top	mt-*
margin-right	mr-*
margin-bottom	mb-*
margin-left	ml-*



The asterisk symbol can be **any number** in the range of 0 to 5

For example **mb-5**, **mr-2**, **mb-3**, etc

Bootstrap Utilities for Spacing

Margin Values

spacer is a variable and by default it has a value of 16 pixels

For example,

- $mb-3 = 1 * 16px = 16px$
- $m-5 = 3 * 16px = 48px$

Size	Value
0	0
1	$0.25 * spacer$
2	$0.5 * spacer$
3	$1 * spacer$
4	$1.5 * spacer$
5	$3 * spacer$

Bootstrap Utility: Spacing

Adding Margin Class Names

HTML

```
<div class="container">
  <div class="row">
    <div class="col-12 mb-3">...</div>
    <div class="col-12 mb-3">...</div>
  </div>
</div>
```

Extra Small And Small Devices

Output



Color Palette For Medium Devices

Bootstrap Color Palette

Primary	Secondary
Success	Info
Warning	Danger

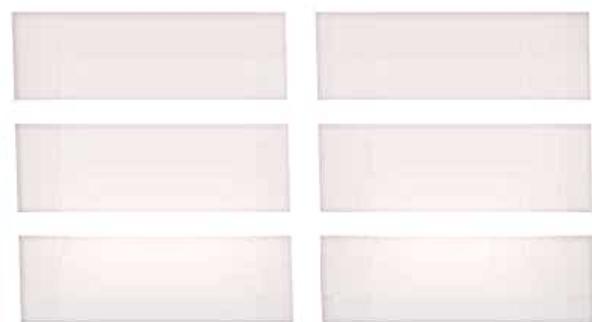
Bootstrap Grid System

Class Name Prefixes

Device	Device Size(width)	Class Name Prefix
Extra small devices	< 576px	col-
Small devices	>= 576px	col-sm-
Medium devices	>= 768px	col-md-
Large devices	>= 992px	col-lg-
Extra large devices	>= 1200px	col-xl-

Bootstrap Color Palette

Layout



Bootstrap Color Palette

Primary	Secondary
Success	Info
Warning	Danger

Bootstrap Color Palette

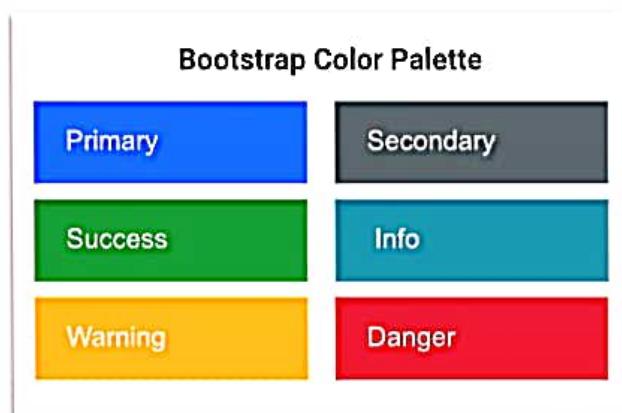
Medium Devices

HTML

```
<div class="container">
  <div class="row">
    <div class="col-12 col-md-6 mb-3">...</div>
    <div class="col-12 col-md-6 mb-3">...</div>
  </div>
</div>
```

Medium devices

Output



CSS Box Properties

Using Margin Variants in the Bootstrap Grid System

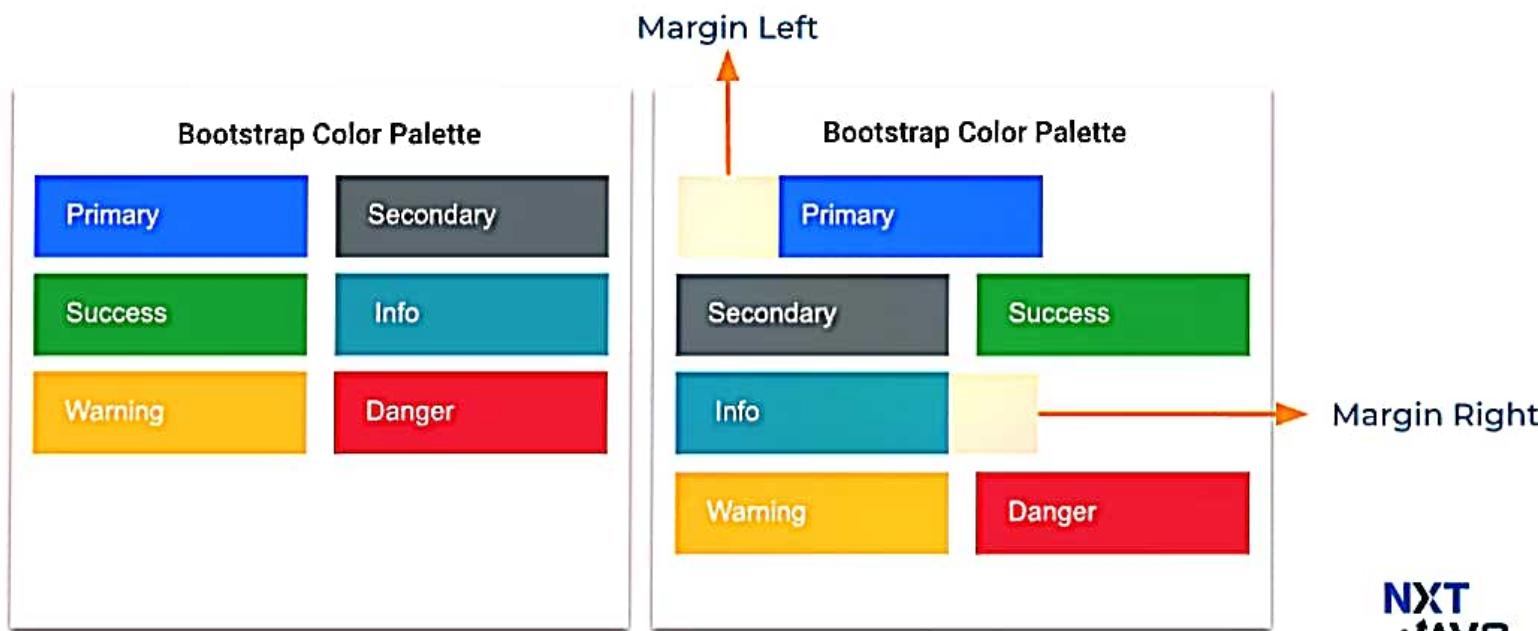
Avoid margin-left and margin-right properties for Bootstrap Columns

It disturbs Bootstrap Grid System and gives unexpected results



CSS Box Properties

Applying Margin Variants



Color Palette For Large Devices

Bootstrap Color Palette

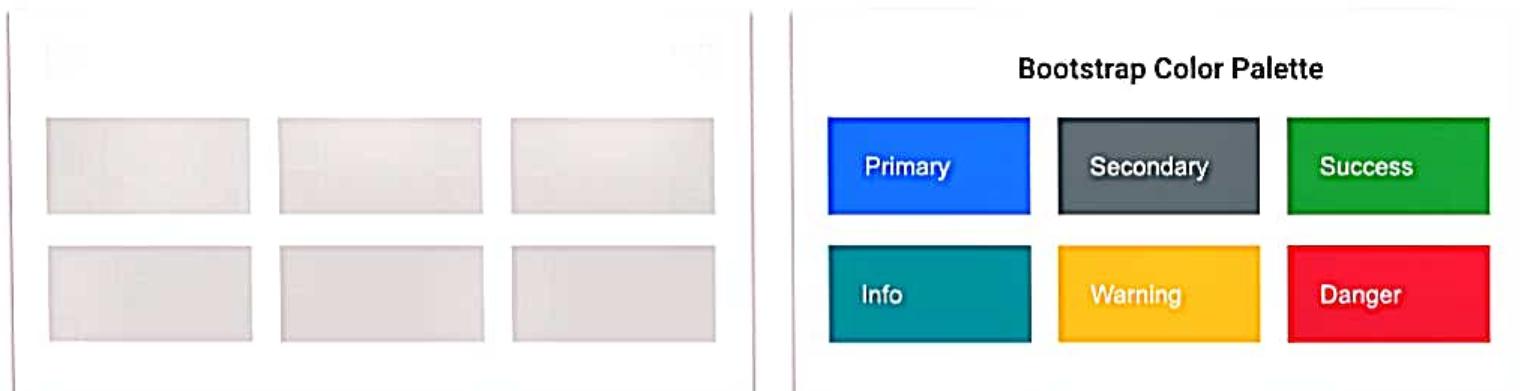
Primary	Secondary	Success
Info	Warning	Danger

Bootstrap Grid System

Class Name Prefixes

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Large devices	>= 992px	col-lg-
Extra large devices	>= 1200px	col-xl-

Bootstrap Color Palette Layout



Bootstrap Color Palette

Large Devices

HTML

```
<div class="container">
  <div class="row">
    <div class="col-12 col-md-6 col-lg-4 mb-3">...</div>
    <div class="col-12 col-md-6 col-lg-4 mb-3">...</div>
  </div>
</div>
```

Large devices

Output

Bootstrap Color Palette



Color Palette For Extra Large Devices

Bootstrap Color Palette

Primary	Secondary	Success	Info
Warning	Warning		

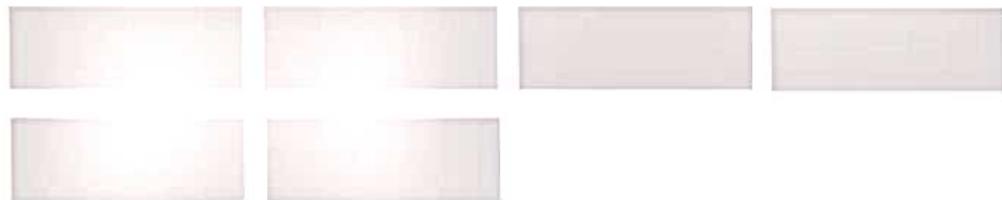
Bootstrap Grid System

Class Name Prefixes

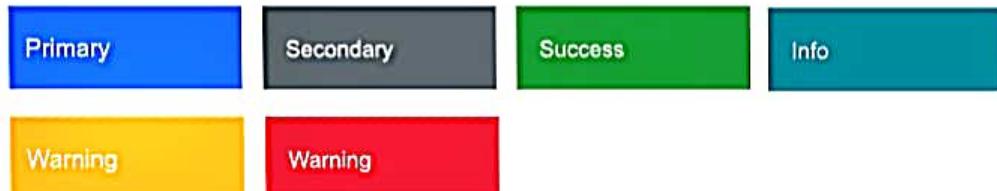
Device	Device Size(width)	Class Name Prefix
Extra small devices	< 576px	col-
Small devices	≥ 576px	col-sm-
Medium devices	≥ 768px	col-md-
Large devices	≥ 992px	col-lg-
Extra large devices	≥ 1200px	col-xl-

Bootstrap Color Palette

Layout



Bootstrap Color Palette



Bootstrap Color Palette

Extra Large Device

HTML

```
<div class="container">
  <div class="row">
    <div class="col-12 col-md-6 col-lg-4 col-xl-3 mb-3">...</div>
    <div class="col-12 col-md-6 col-lg-4 col-xl-3 mb-3">...</div>
  </div>
</div>
```

Extra Large devices

Output

Bootstrap Color Palette



Bootstrap Grid System | Part 2

Key Takeaways (PART 1/2)

- ✓ Developing Layouts for 5 Responsive Breakpoints
- ✓ CSS Box Properties
 - Margin Variants



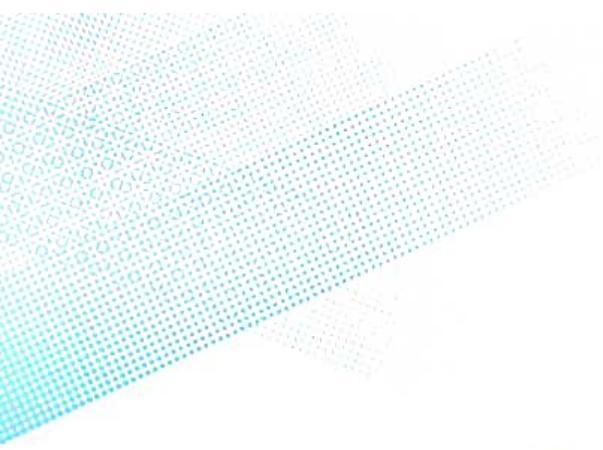
Bootstrap Grid System | Part 2

Key Takeaways (PART 2/2)

✓ Bootstrap Utilities

- Background Colors
- Spacing
- Margin





Next Session

Bootstrap Navbar





THANK YOU

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ALL THE BEST

