



NXT
WAVE

WELCOME





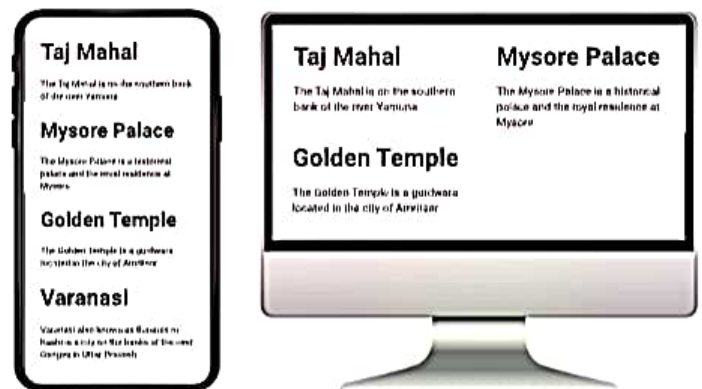
Bootstrap Grid System

Part 2

Recap

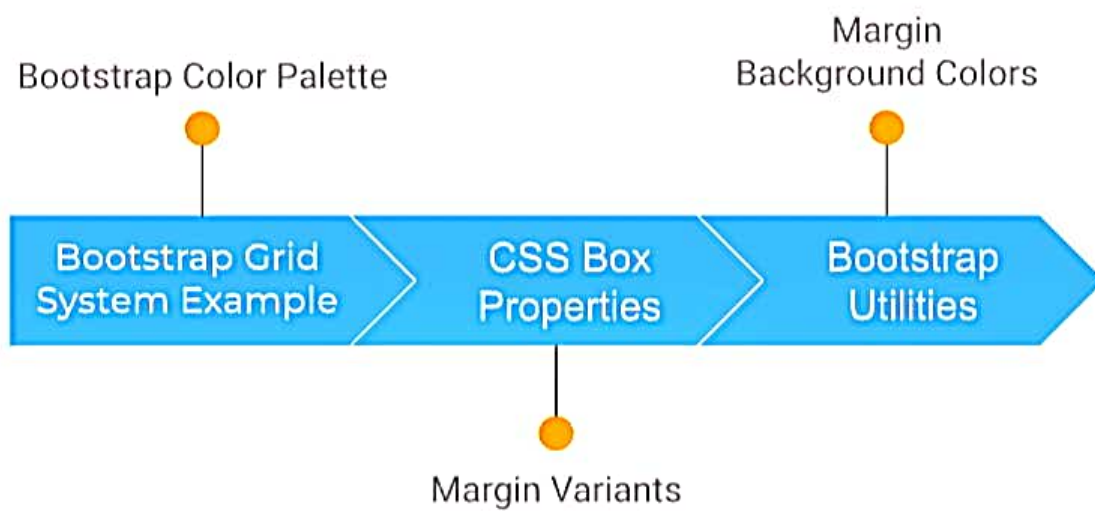
Bootstrap Grid System

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



Agenda

Bootstrap Grid System | Part 2

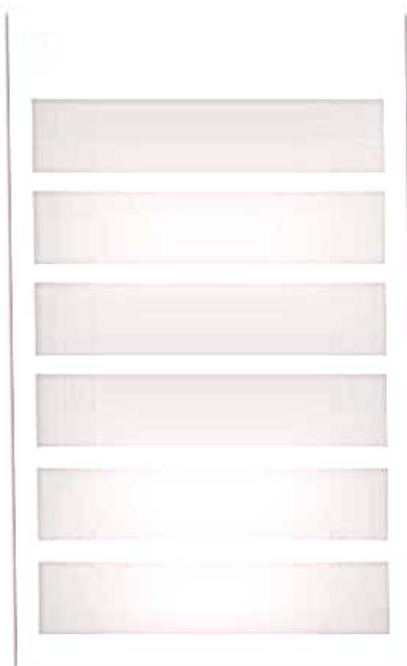


Let's build a Bootstrap Color Palette



Bootstrap Responsive Breakpoints

Extra Small & Small Devices



Bootstrap Color Palette

Primary

Secondary

Success

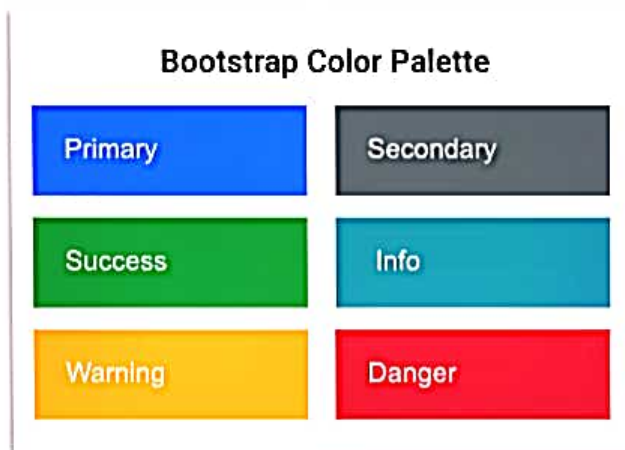
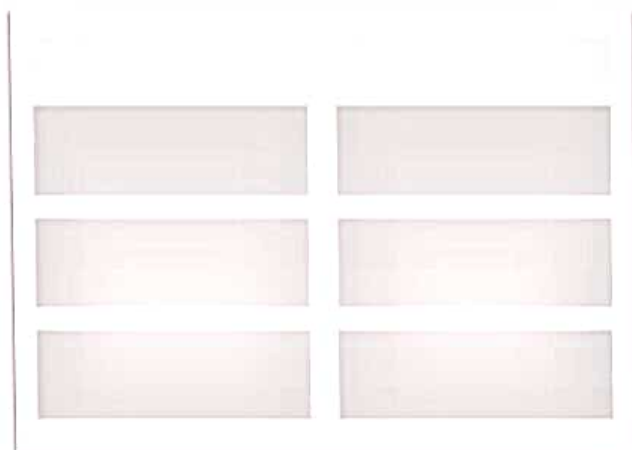
Info

Warning

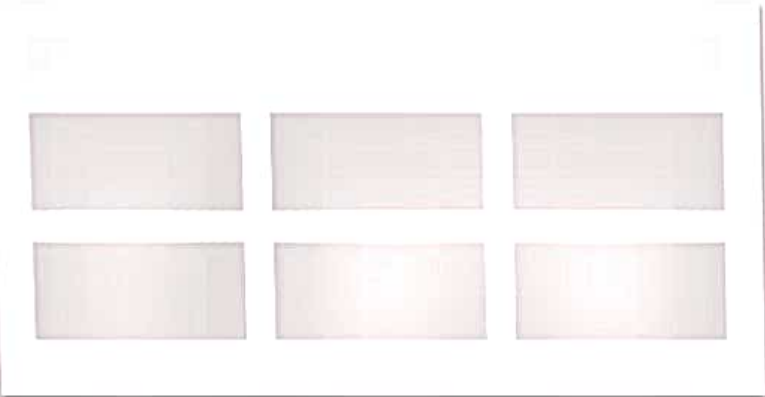
Danger

Bootstrap Responsive Breakpoints

Medium Devices



Large Devices

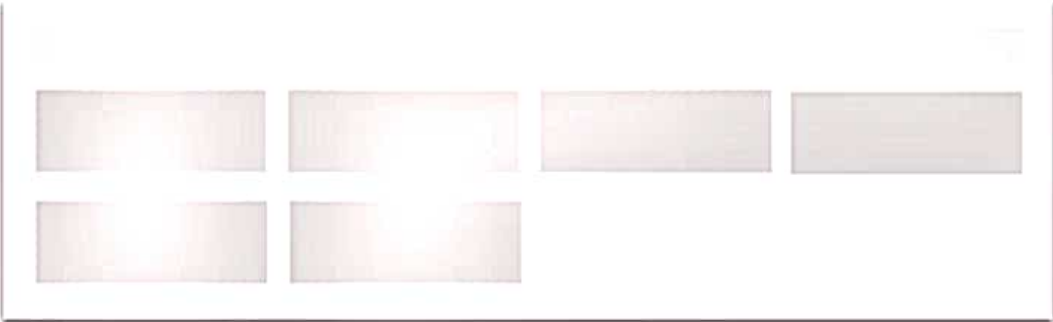


Bootstrap Color Palette

Primary	Secondary	Success
Info	Warning	Danger

Bootstrap Responsive Breakpoints

Extra Large Devices



Let's add a Heading
to our Color Palette

Bootstrap Color Palette

Primary

Secondary

Success

Info

Warning

Danger

Bootstrap Color Palette

Adding a Heading

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

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

HTML

CSS

Bootstrap Color Palette

Let's add
Color Boxes



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

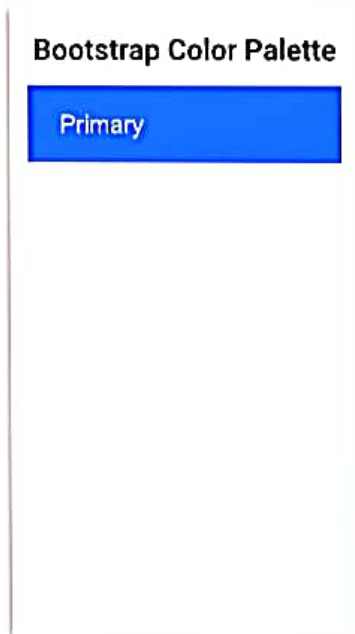
```
<div class="container">
  <div class="row">
    <div class="col-12">
      <div class="color-box bg-primary">
        <p class="color-name"> Primary </p>
      </div>
    </div>
  </div>
</div>
```

CSS

```
.color-box {
  padding: 30px;
}
.color-name {
  color: white;
  font-size: 20px;
}
```


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?



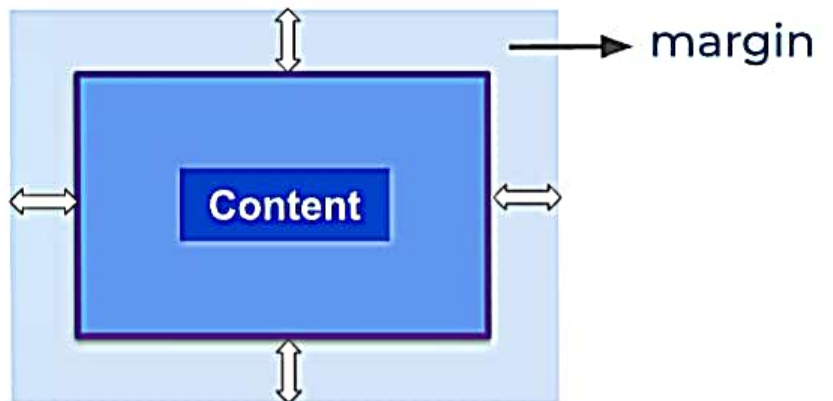
How to have Spacing after Each Bootstrap Grid Column?



CSS Box Properties

Margin

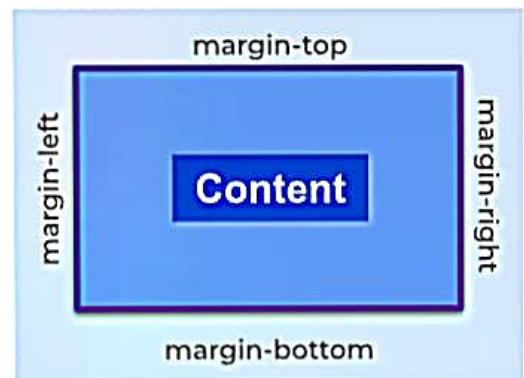
We can have spacing
between two elements with CSS
Box Property- **margin**



Margin Variants

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

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



Adding Margin Bottom

HTML

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



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 **m-5**, **mr-2**, **mb-3**, etc

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

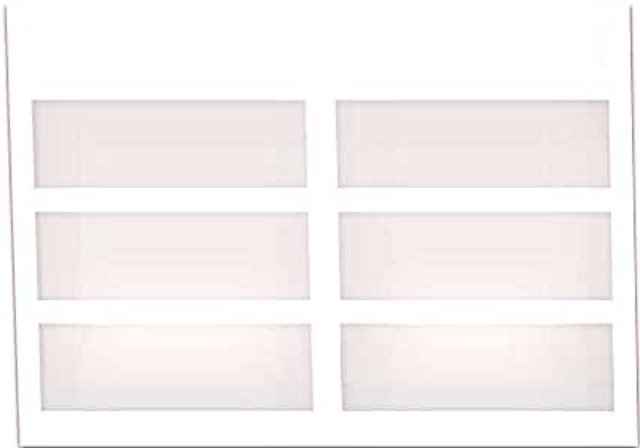
Bootstrap Grid System

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

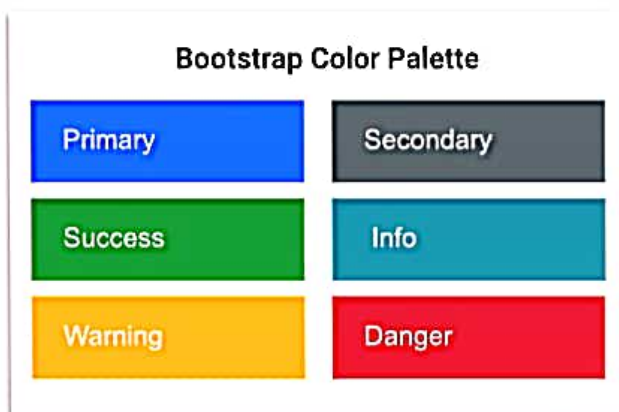
Medium Devices

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

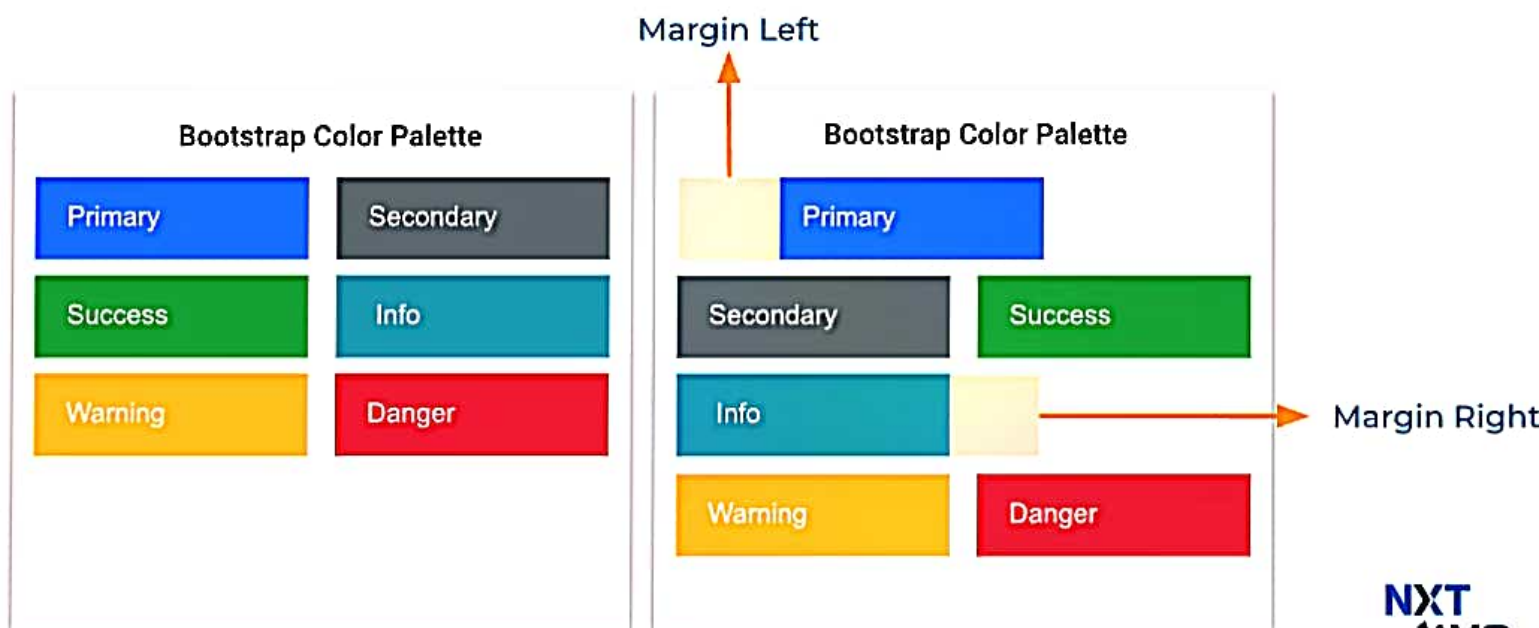
Using Margin Variants in the Bootstrap Grid System

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

It disturbs Bootstrap Grid System and gives unexpected results



Applying Margin Variants





Color Palette For Large Devices

Bootstrap Color Palette

Primary	Secondary	Success
Info	Warning	Danger

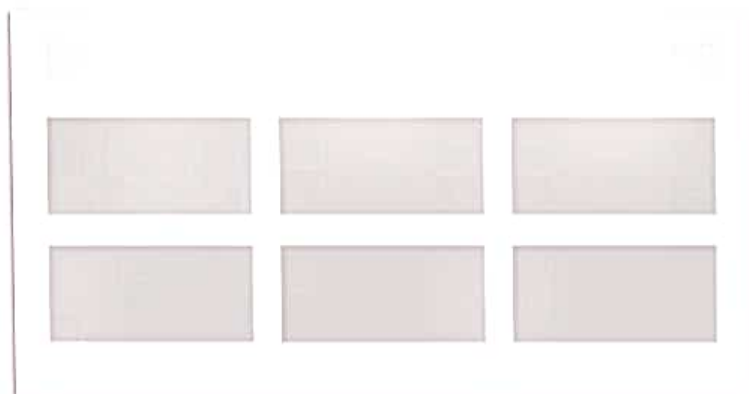
Bootstrap Grid System

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



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 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 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





Color Palette For Extra Large Devices

Bootstrap Color Palette



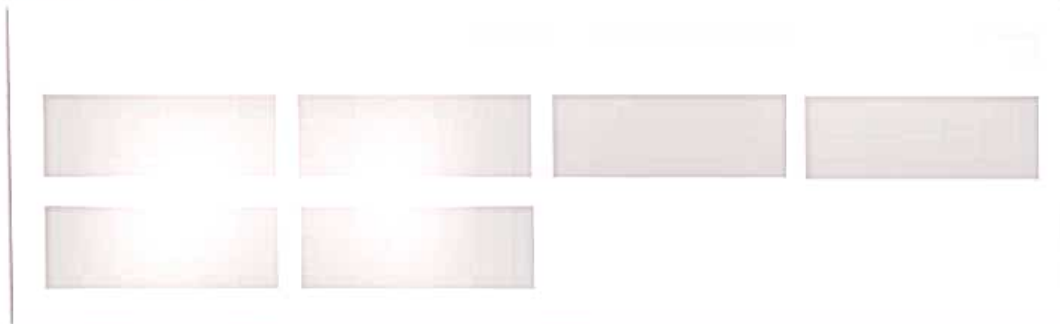
Bootstrap Grid System

Class Name Prefixes

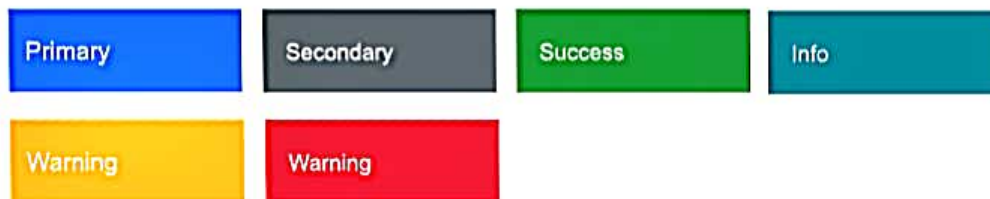
Device	Device Size(width)	Class Name Prefix
Extra small devices	< 576px	col-
Small devices	>= 576px	col-sm-
Medium devices	>= 768px	col-md-
Large devices	>= 992px	col-lg-
Extra large devices	>= 1200px	col-xl-

Bootstrap Color Palette

Layout



Bootstrap Color Palette



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 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 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

Primary

Secondary

Success

Info

Warning

Warning

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

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THANK YOU





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ALL THE BEST

