

# SASS Functions and Lists

- SASS Functions: These are code snippets which helps rendering functional, conditional or looped styles to an element.
- Syntax: @function function-name(arguments){ function to be performed }

- E.g.

```
@function edges($edgesValue: 'flat'){  
  $value: 25px;  
  @if $edgesValue == 'semi'{  
    $value: 5px;  
    @return $value;  
  }  
  @else if $edgesValue == 'rounded'{  
    $value: 50%;  
    @return $value;  
  }  
  @else if $edgesValue == 'flat'{  
    $value: 0px;  
    @return $value;  
  }  
}
```

```
p{  
  border-radius: edges('semi');  
  border: 1px solid;  
  padding: 12px;  
}  
div{  
  border: 2px solid;  
  border-radius: edges('rounded');  
  width: 20px;
```

```
height: 20px;  
}
```

- SASS Lists: SASS Lists are key-value pairs stored like an object.
- Syntax: \$colors: (black: #000000, white: #ffffff, grey: #efefef, red: #000099);
- These list key-values may be accessed by inbuilt SASS function map-get().

E.g. div{  
background-color: map-get(\$colors, grey);  
}

- More functional example:

```
$palette:( grey: (5: #404040, 10: #606060, 20: #808080, 30: #B0B0B0, 40:  
#D0D0D0), blue: (5: #000033, 10: #000066, 20: #000099), red: (5: #660000, 10:  
#990000) );  
  
@function color($colorname, $colorcode){  
$color-map: map-get($palette, $colorname);  
  
@if ($color-map == null) {  
@error $selectedColor + ' is not part of the color palette';  
}  
  
@return map-get($color-map, $colorcode);  
}  
  
p{  
color: color(red,10);  
}
```