

# SASS Variables

- SASS Variables: These are the store houses for property values much alike CSS variables.
- Syntax for Variable Declaration- `$variable-name: value stored;` E.g. `$primary-color: darkblue;`
- Syntax for Variable Consumption- `property: $variable-name;` E.g. `color: $primary-color;` etc.
- Syntax for Variable as function argument- `@function btn($value){@return $value;}`
- Syntax for Variable as argument with default value- `@function btn($value = "primary"){ @return $value; }`

## SASS Mixins

- Mixins: These are collection of code statements for some common styles under a single roof to be re-used wherever same set of styles are needed in a website/web-page.
- Syntax of mixins:

```
@mixin btn-primary{
background-color: blue;
color: white;
border-radius: 3px;
padding: 12px;
&:hover{
background-color: darkblue;
border: 1px inset blue;
}
}
```

```
.btn-action{
@include btn-primary;
}
```

```
.btn-ok{  
  @include btn-primary;  
  background-color: green;  
}
```

- More Dynamic Mixins:

```
@mixin btn($color, $borderRadius, $bgColor, $padding, $margin, $hoverbg){  
  background-color: $bgColor;  
  color: $color;  
  border-radius: $borderRadius;  
  margin: $margin;  
  padding: $padding;  
  &:hover{  
    background-color: $hoverbg;  
  }  
}
```

```
.btn-cancel{  
  @include btn('white', '3px', 'darkblue', '12px', '0px', 'lightblue');  
}
```

```
.btn-warning{  
  @include btn('goldenrod', '3px', '#202020', '8px', '0px', 'yellow'); }
```

- A mixin may be called in another mixin with additional or no set of style statements.