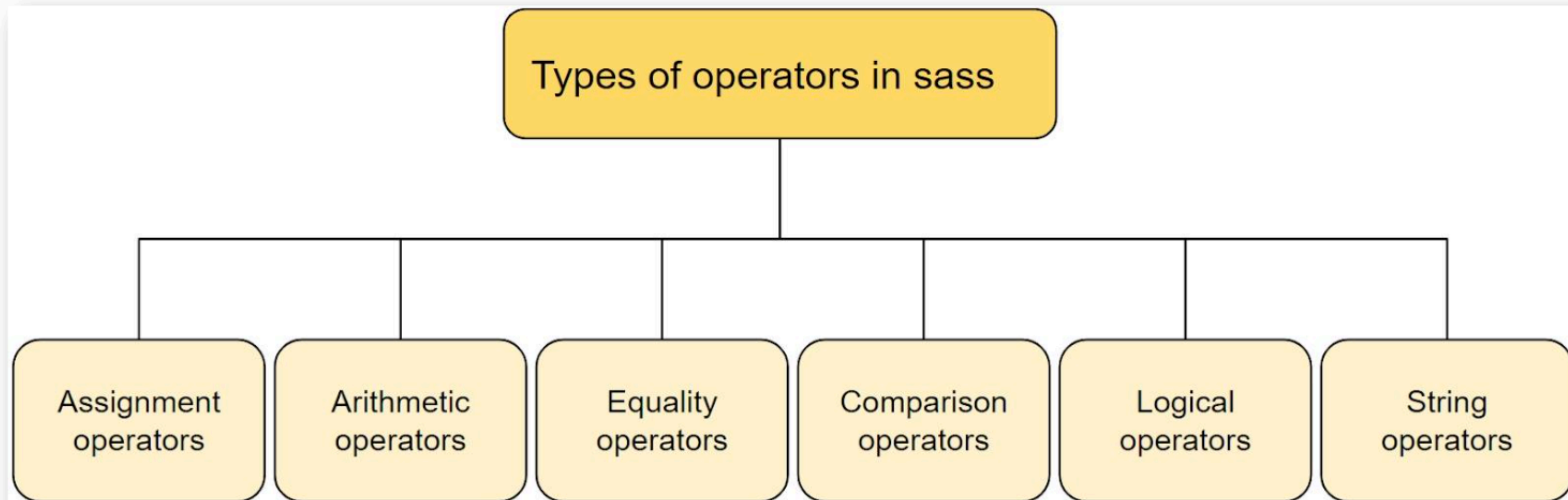


Operators in Sass

Operators are useful tools that enable you to perform calculations and manipulate values in your stylesheets. They simplify the process of developing styles and allow you to create dynamic styles based on various factors.



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Operators in Sass – Arithmetic Operators

- Sass supports common arithmetic operators for numeric values:
 - **Addition (+):** Combine values to create new ones.
 - **Subtraction (-):** Calculate the difference between values.
 - **Multiplication (*):** Scale values by multiplying them.
 - **Division (/):** Divide values to create proportional changes.
 - **Modulo (%):** Get the remainder of a division operation.

Example:

```
$base-width: 100px;

.element {
  width: $base-width * 2;
  // Results in 200px
  margin-left: $base-width % 3;
  // Results in the remainder of division
}
```

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Operators in Sass – Comparison Operators

- These operators compare values and return a boolean result:
 - **Equal to (==):** Check if two values are equal.
 - **Not equal to (!=):** Determine if two values are not equal.
 - **Greater than (>) and Less than (<):** Compare values' magnitudes.

Example:

```
$font-size: 14px;  
.text {  
  font-size: $font-size;  
  color: if($font-size > 16px, red, blue);  
  // Conditionally set color  
}
```

Operators in Sass – Logical Operators

- These operators are used to combine conditions and create complex expressions:
 - **AND (&&):** Both conditions must be true for the expression to be true.
 - **OR (||):** At least one condition must be true for the expression to be true.
 - **NOT (!):** Negates the truth value of a condition.

Example:

```
$is-bold: true;
$is-italic: false;

.styled-text {
  font-weight: if($is-bold and $is-italic, bold, normal);
}
```



SASS Superpowers

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Nesting in Sass

- Nesting is used to nest the child CSS selectors inside the parent selector. In Sass, you can nest CSS rules with each other.
- The sass example shows that the **p-1**, **p-2**, **p-3**, and **p-4** selectors are nested inside the main div selector.

```
html > s.scss > ...
1 // define variables for the primary colors
2 $color_1: black;
3 $color_2: rgb(221, 36, 36);
4 $color_3: rgb(45, 192, 31);
5 $color_4: blanchedalmond;
6 #main_div{
7   #p-1{
8     background-color: $color_1;
9   }
10  #p-2{
11    background-color: $color_2;
12  }
13  #p-3{
14    background-color: $color_3;
15  }
16  #p-4{
17    background-color: $color_4;
18    font-size: 10px + 20px;
19  }
20 }
21
```

With Sass

```
html > s.css > #main_div #p-4
1 #main_div #p-1 {
2   background-color: black;
3 }
4
5 #main_div #p-2 {
6   background-color: #dd2424;
7 }
8
9 #main_div #p-3 {
10  background-color: #2dc01f;
11 }
12
13 #main_div #p-4 {
14   background-color: blanchedalmond;
15   font-size: 30px;
16 }
17 /*# sourceMappingURL=s.css.map */
```

Without Sass

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