

# Converting Colors

`RYB(87, 51, 102)`

Have a look what the booklet for  
RYB(87, 51, 102) contains.

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# Color

**R<sub>Y</sub>B(87, 51, 102)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	573366
RGB	87, 51, 102
RGB Percent	34%, 20%, 40%
CMY	0.6588, 0.8000, 0.6000
CMYK	0.15, 0.50, 0.00, 0.60
HSL	282°, 33%, 30%
HSV	282°, 50%, 40%
XYZ	7.5126, 5.3532, 13.2077
YIQ	67.5780, 5.0850, 23.4930

# Conversions

## Conversions Part 2

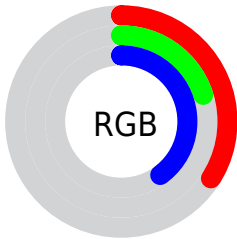
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	87, 51, 102
Decimal	5714790
CIE <sub>Lab</sub>	27.72, 26.14, -23.63
CIE <sub>LCh</sub>	28, 35.235, 317.888
Yxy	5.3532, 0.2881, 0.2053
Android (android.graphics.Color)	4283904870 (0xFF573366)
YUV	67.5780, 16.9700, 17.0331
Hunter-Lab	23.1370, 17.4692, -17.6497

# Details

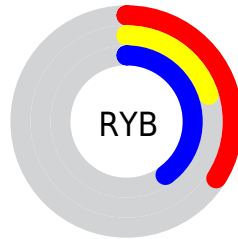
The RYB color **87, 51, 102** is a dark color, and the websafe version is hex **663366**. A complement of this color would be **51, 102, 87**, and the grayscale version is **67, 67, 67**.

A 20% lighter version of the original color is **138, 99, 153**, and **40, 6, 55** is the 20% darker color. If you saturate the color by 10%, you get **84, 41, 102**, and if you desaturate by 10%, it is **90, 61, 102**.

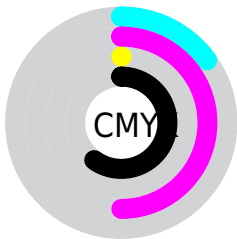
# Distribution



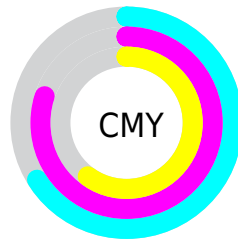
- Red (34%)
- Green (20%)
- Blue (40%)



- Red (34%)
- Yellow (20%)
- Blue (40%)



- Cyan (15%)
- Magenta (50%)
- Yellow (0%)
- Black (60%)



- Cyan (66%)
- Magenta (80%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 87, 51, 102 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the RYB color 87, 51, 102 by changing the saturation by 10% instead.





87, 51, 102



87, 51, 102

255, 255, 255



63, 29, 78



138, 99, 153



40, 6, 55



165, 124, 180



17, 0, 33



192, 150, 208



0, 0, 6



220, 177, 236



0, 0, 0



249, 204, 255



255, 233, 255



87, 51, 102



87, 51, 102



84, 41, 102



90, 61, 102

81, 31, 102

93, 71, 102

78, 20, 102

96, 82, 102

75, 10, 102

99, 92, 102

72, 0, 102

102, 102, 102

102, 112, 109

102, 122, 116

102, 133, 124

102, 143, 131

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



44, 59, 117



87, 51, 102



109, 41, 78

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



87, 51, 102



50, 88, 7



0, 40, 81

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



87, 51, 102



51, 102, 87

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



0, 46, 78



87, 51, 102



7, 69, 12

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



87, 51, 102



106, 58, 26



27, 75, 71



0, 44, 105

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



87, 51, 102



114, 39, 59



27, 75, 71



0, 41, 78



# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



87, 51, 102



127, 113, 133



51, 63, 102



63, 54, 66



194, 194, 194



66, 66, 66



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



87, 51, 102



109, 53, 133



102, 51, 92



50, 46, 51



81, 0, 115



171, 0, 242



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



102, 51, 66



133, 53, 76



51, 94, 102



51, 46, 47



115, 0, 34

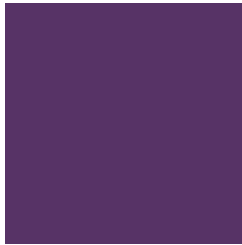


242, 0, 71



# Previews

## White Background



This preview shows how the RYB color 87, 51, 102 looks on a white background.

## Color Contrast Check

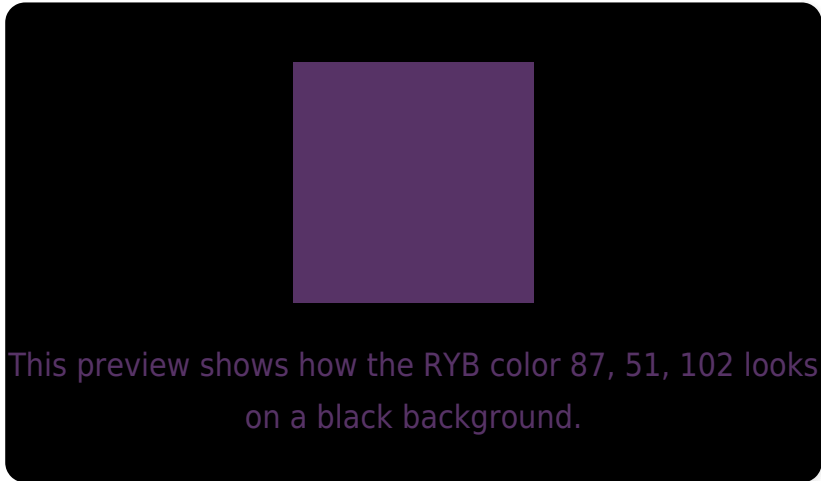
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

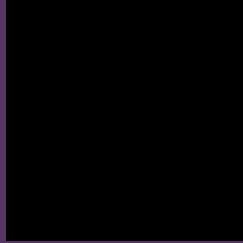
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).



## R Y B 87, 51, 102 Background



This preview shows how black text looks on a background with the R Y B color 87, 51, 102.



This preview shows how white text looks on a background with the R Y B color 87, 51, 102.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



**Original Color**

87, 51, 102

**Protanopia**

44, 60, 114

**Deuteranopia**

50, 62, 99



**Tritanopia**  
81, 60, 65

# Trichromacy



**Original Color**  
87, 51, 102

**Protanomaly**  
60, 59, 110

**Deuteranomaly**  
63, 61, 100

**Tritanomaly**  
83, 57, 78

# Monochromacy



**Original Color**  
87, 51, 102

**Achromatopsia**  
68, 68, 68

**Achromatomaly**  
75, 62, 80

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 87, 51, 102 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color rgb(87, 51, 102) looks like.

```
.text, #text, p{  
    color:rgb(87, 51, 102)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(87, 51, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 51, 102) }
```

## Border

The CSS property to change the border of an element to RYB 87, 51, 102 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(87, 51, 102) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(87, 51, 102) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(87, 51, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 51, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 51, 102);  
box-shadow:4px 4px 4px 4px rgb(87, 51,  
102) }
```

# Background

The CSS property to change the background color of an element to RGB 87, 51, 102 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 51, 102) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(87, 51,  
102) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).



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