

# Converting Colors

`RYB(68, 34, 223)`

Have a look what the booklet for  
RYB(68, 34, 223) contains.

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# Color

**R<sub>Y</sub>B(68, 34, 223)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4422DF
RGB	68, 34, 223
RGB Percent	27%, 13%, 87%
CMY	0.7333, 0.8667, 0.1255
CMYK	0.70, 0.85, 0.00, 0.13
HSL	251°, 75%, 50%
HSV	251°, 85%, 87%
XYZ	16.2752, 7.7007, 70.4406
YIQ	65.7120, -40.4050, 65.9870

# Conversions

## Conversions Part 2

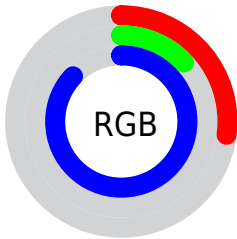
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	68, 34, 223
Decimal	4465375
CIE Lab	33.35, 64.93, -87.89
CIE LCh	33, 109.269, 306.456
Yxy	7.7007, 0.1724, 0.0816
Android (android.graphics.Color)	4282655455 (0xFF4422DF)
YUV	65.7120, 77.5430, 2.0066
Hunter-Lab	27.7502, 56.1258, -131.0758

# Details

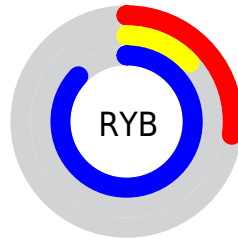
The RYB color **68, 34, 223** is a dark color, and the websafe version is hex **3300CC**. The color can be described as dark washed blue. A complement of this color would be **34, 223, 68**, and the grayscale version is **65, 65, 65**.

A 20% lighter version of the original color is **138, 87, 255**, and **0, 0, 166** is the 20% darker color. If you saturate the color by 10%, you get **50, 12, 223**, and if you desaturate by 10%, it is **86, 56, 223**.

# Distribution



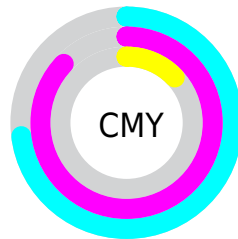
- Red (27%)
- Green (13%)
- Blue (87%)



- Red (27%)
- Yellow (13%)
- Blue (87%)



- Cyan (70%)
- Magenta (85%)
- Yellow (0%)
- Black (13%)



- Cyan (73%)
- Magenta (87%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 68, 34, 223 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 68, 34, 223 by changing the saturation by 10% instead.





68, 34, 223



68, 34, 223

255, 255, 255



5, 0, 194



138, 87, 255



0, 0, 166



169, 114, 255



0, 0, 139



201, 141, 255



0, 0, 112



232, 168, 255



0, 11, 86



255, 196, 255



0, 5, 62



255, 225, 255



0, 3, 39



255, 254, 255



0, 1, 17



0, 0, 0

■ 68, 34, 223

■ 68, 34, 223

■ 50, 12, 223

■ 86, 56, 223

■ 40, 0, 223

■ 105, 79, 223

■ 123, 101, 223

■ 141, 123, 223

■ 159, 146, 223

■ 178, 168, 223

■ 196, 190, 223

■ 214, 212, 223

■ 223, 235, 225

# Harmonies

## Analogous

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



0, 67, 255



68, 34, 223



186, 0, 150

# Triad

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



68, 34, 223



148, 53, 0



0, 55, 105

# Complementary

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



68, 34, 223



34, 223, 68

# 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, 103, 103



68, 34, 223



0, 82, 2

# Square

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



68, 34, 223



196, 0, 0



0, 97, 97



0, 68, 183

# Rectangle

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



68, 34, 223



211, 0, 93



0, 97, 97



0, 64, 104



# Sweetspot

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



68, 34, 223



203, 191, 255



34, 120, 223



96, 89, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



68, 34, 223



46, 0, 255



160, 34, 223



103, 101, 112



32, 0, 176



9, 0, 48



# Inverse Universe

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



223, 34, 189



255, 0, 209



34, 223, 160



112, 101, 110



176, 0, 144



48, 0, 40



# Previews

## White Background



This preview shows how the RYB color 68, 34, 223 looks on a white background.

## Color Contrast Check

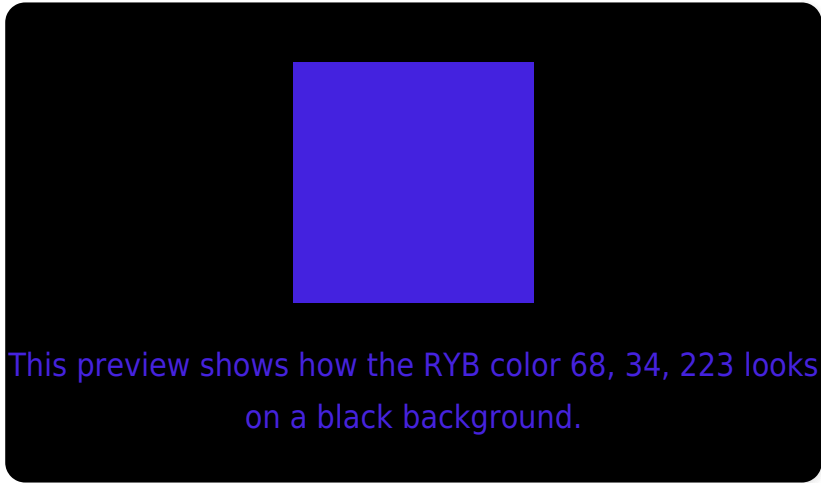
Large Text (above 18pt) WCAG AA ✓ Pass

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

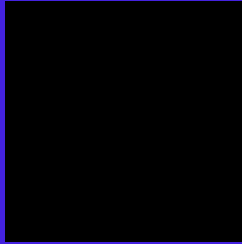
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## **R Y B 68, 34, 223 Background**



This preview shows how black text looks on a background with the R Y B color 68, 34, 223.

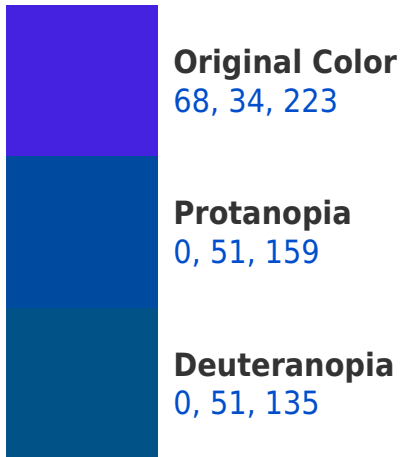



This preview shows how white text looks on a background with the R Y B color 68, 34, 223.

# 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





**Tritanopia**  
0, 45, 92

# Trichromacy



**Original Color**

68, 34, 223

**Protanomaly**

25, 54, 182

**Deuteranomaly**

25, 56, 167

**Tritanomaly**

25, 56, 140

# Monochromacy



**Original Color**

68, 34, 223

**Achromatopsia**

66, 66, 66

**Achromatomaly**

67, 54, 123

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 68, 34, 223 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(68, 34, 223)` looks like.

```
.text, #text, p{  
    color:rgb(68, 34, 223)  
}
```

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(68, 34, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 34, 223) }
```

## Border

The CSS property to change the border of an element to RYB 68, 34, 223 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(68, 34, 223) }
```

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

```
.border{ border-color:rgb(68, 34, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 34, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 34, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 34, 223);  
box-shadow:4px 4px 4px 4px rgb(68, 34,  
223) }
```

# Background

The CSS property to change the background color of an element to RYB 68, 34, 223 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 34, 223) }
```

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

```
.background{ background-color: rgb(68, 34,  
223) }
```

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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