

# Converting Colors

`RYB(135, 0, 208)`

Have a look what the booklet for  
RYB(135, 0, 208) contains.

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# Color

**R<sub>Y</sub>B(135, 0, 208)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8700D0
RGB	135, 0, 208
RGB Percent	53%, 0%, 82%
CMY	0.4706, 1.0000, 0.1843
CMYK	0.35, 1.00, 0.00, 0.18
HSL	279°, 100%, 41%
HSV	279°, 100%, 82%
XYZ	21.3768, 9.7050, 60.4211
YIQ	64.0770, 13.6920, 93.3080

# Conversions

## Conversions Part 2

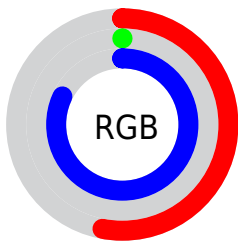
<b>Format</b>	<b>Color</b>
<b>RYB</b>	135, 0, 208
Decimal	8847568
CIELab	37.31, 74.29, -72.44
CIElCh	37, 103.766, 315.723
Yxy	9.7050, 0.2336, 0.1061
Android (android.graphics.Color)	4287037648 (0xFF8700D0)
YUV	64.0770, 70.9540, 62.1995
Hunter-Lab	31.1528, 67.9681, -93.1864

# Details

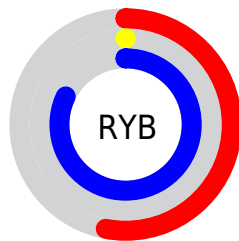
The RYB color **135, 0, 208** is a dark color, and the websafe version is hex **9900CC**. The color can be described as dark washed purple. A complement of this color would be **0, 208, 135**, and the grayscale version is **63, 63, 63**.

A 20% lighter version of the original color is **195, 80, 255**, and **75, 0, 152** is the 20% darker color. If you saturate the color by 10%, you get **135, 0, 208**, and if you desaturate by 10%, it is **142, 21, 208**.

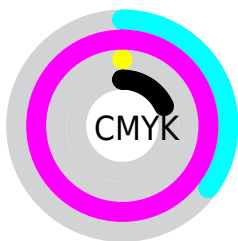
# Distribution



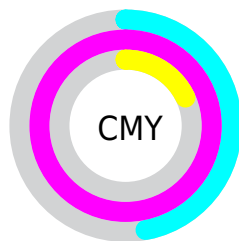
- Red (53%)
- Green (0%)
- Blue (82%)



- Red (53%)
- Yellow (0%)
- Blue (82%)



- Cyan (35%)
- Magenta (100%)
- Yellow (0%)
- Black (18%)



- Cyan (47%)
- Magenta (100%)
- Yellow (18%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 135, 0, 208 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 135, 0, 208 by changing the saturation by 10% instead.



 135, 0, 208

 135, 0, 208


255, 255, 255

 105, 0, 180

 195, 80, 255

 75, 0, 152

 225, 109, 255

 41, 0, 125

 255, 137, 255

 0, 0, 99

 255, 166, 255

 0, 0, 74

 255, 195, 255

 0, 4, 51

 255, 224, 255

 0, 2, 29

255, 254, 255

 0, 0, 0

 135, 0, 208

■ 142, 21, 208

■ 150, 42, 208

■ 157, 62, 208

■ 164, 83, 208

■ 171, 104, 208

■ 179, 125, 208

■ 186, 146, 208

■ 193, 166, 208

■ 201, 187, 208

# Harmonies

## Analogous

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



0, 65, 255



135, 0, 208



208, 0, 131

# Triad

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



135, 0, 208



140, 136, 0



0, 62, 132

# Complementary

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



135, 0, 208



0, 208, 135

# 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, 83, 114



135, 0, 208



0, 98, 33

# Square

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



135, 0, 208



193, 0, 0



0, 109, 109



0, 75, 210

# Rectangle

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



135, 0, 208



221, 0, 77



0, 109, 109



0, 61, 116



# Sweetspot

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



135, 0, 208



228, 179, 255



0, 56, 208



111, 82, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



135, 0, 208



166, 0, 255



208, 0, 180



101, 94, 105



109, 0, 168



26, 0, 41



# Inverse Universe

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



208, 0, 73



255, 0, 89



0, 183, 208



105, 94, 98



168, 0, 59



41, 0, 14



# Previews

## White Background



This preview shows how the RYB color 135, 0, 208 looks on a white background.

## Color Contrast Check

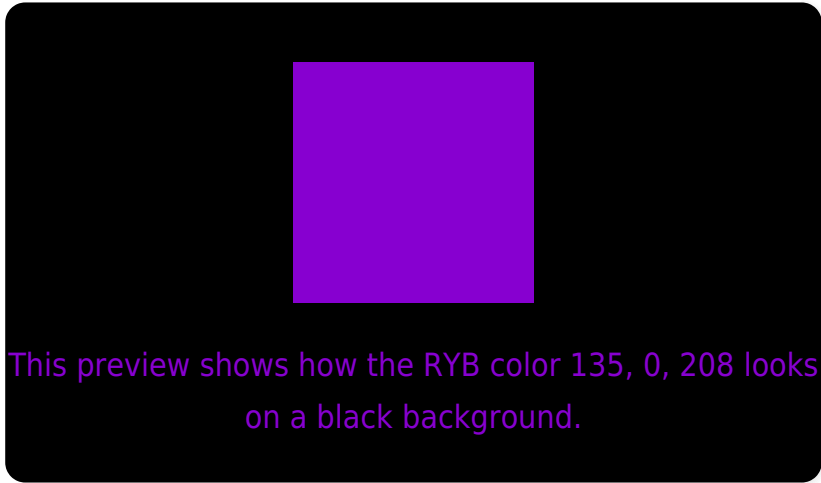
Large Text (above 18pt) WCAG AA ✓ Pass

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

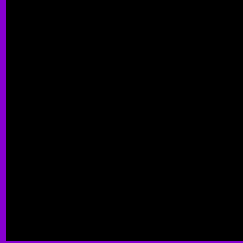
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## R Y B 135, 0, 208 Background



This preview shows how black text looks on a background with the R Y B color 135, 0, 208.



This preview shows how white text looks on a background with the R Y B color 135, 0, 208.

# 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**  
135, 0, 208

**Protanopia**  
0, 59, 183

**Deuteranopia**  
0, 58, 158



**Tritanopia**  
112, 81, 87

# Trichromacy



**Original Color**

135, 0, 208



**Protanomaly**

49, 55, 192



**Deuteranomaly**

49, 58, 176



**Tritanomaly**

120, 52, 131

# Monochromacy



**Original Color**

135, 0, 208



**Achromatopsia**

64, 64, 64



**Achromatomaly**

90, 41, 116

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 135, 0, 208 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(135, 0, 208)` looks like.

```
.text, #text, p{  
    color:rgb(135, 0, 208)  
}
```

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(135, 0, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 0, 208) }
```

## Border

The CSS property to change the border of an element to RYB 135, 0, 208 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(135, 0, 208) }
```

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

```
.border{ border-color:rgb(135, 0, 208) }
```

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

Here you see how a box with a 4 pixel rgb(135, 0, 208) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 0, 208); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 0, 208);  
box-shadow:4px 4px 4px 4px rgb(135, 0,  
208) }
```

# Background

The CSS property to change the background color of an element to RYB 135, 0, 208 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 0, 208) }
```

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

```
.background{ background-color: rgb(135, 0,  
208) }
```

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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