

# Converting Colors

`RYB(164, 39, 217)`

Have a look what the booklet for  
RYB(164, 39, 217) contains.

<b>RYB(164, 39, 217)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	23
<i><b>Color Blindness Simulation</b></i> .....	26
<i><b>CSS Examples</b></i> .....	29

# Color

**R<sub>Y</sub>B(164, 39, 217)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A427D9
RGB	164, 39, 217
RGB Percent	64%, 15%, 85%
CMY	0.3569, 0.8471, 0.1490
CMYK	0.24, 0.82, 0.00, 0.15
HSL	282°, 70%, 50%
HSV	282°, 82%, 85%
XYZ	28.5597, 14.3533, 66.9108
YIQ	96.6670, 17.3620, 81.8580

# Conversions

## Conversions Part 2

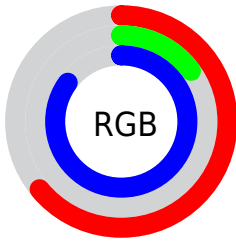
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 39, 217
Decimal	10758105
CIELab	44.74, 73.10, -65.32
CIELCh	45, 98.036, 318.219
Yxy	14.3533, 0.2601, 0.1307
Android (android.graphics.Color)	4288948185 (0xFFA427D9)
YUV	96.6670, 59.3242, 59.0510
Hunter-Lab	37.8858, 68.2601, -78.1933

# Details

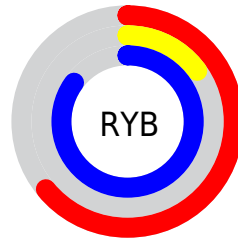
The RYB color **164, 39, 217** is a dark color, and the websafe version is hex **9900CC**. The color can be described as middle washed purple. A complement of this color would be **39, 217, 164**, and the grayscale version is **96, 96, 96**.

A 20% lighter version of the original color is **223, 101, 255**, and **106, 0, 161** is the 20% darker color. If you saturate the color by 10%, you get **158, 17, 217**, and if you desaturate by 10%, it is **170, 61, 217**.

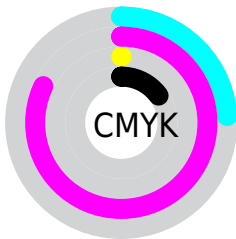
# Distribution



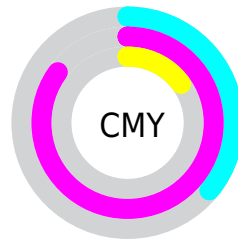
- Red (64%)
- Green (15%)
- Blue (85%)



- Red (64%)
- Yellow (15%)
- Blue (85%)



- Cyan (24%)
- Magenta (82%)
- Yellow (0%)
- Black (15%)





















- Cyan (36%)
- Magenta (85%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 164, 39, 217 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 164, 39, 217 by changing the saturation by 10% instead.



 164, 39, 217	 164, 39, 217
 255, 255, 255	 135, 0, 189
 223, 101, 255	 106, 0, 161
 254, 130, 255	 76, 0, 134
 255, 158, 255	 46, 0, 108
 255, 187, 255	 6, 0, 83
 255, 216, 255	 0, 0, 58
 255, 246, 255	 0, 2, 36
	 0, 0, 11
	 0, 0, 0

■ 164, 39, 217

■ 164, 39, 217

■ 158, 17, 217

■ 170, 61, 217

■ 152, 0, 217

■ 177, 82, 217

■ 183, 104, 217

■ 190, 126, 217

■ 196, 147, 217

■ 203, 169, 217

■ 209, 191, 217

■ 216, 213, 217

■ 217, 234, 229

# Harmonies

## Analogous

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



0, 72, 255



164, 39, 217



228, 0, 142

# Triad

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



164, 39, 217



111, 156, 0



0, 72, 155

# Complementary

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



164, 39, 217



39, 217, 164

# 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, 88, 134



164, 39, 217



0, 117, 35

# Square

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



164, 39, 217



209, 32, 0



0, 129, 129



0, 85, 229

# Rectangle

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



164, 39, 217



239, 0, 88



0, 129, 129



0, 70, 136



# Sweetspot

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



164, 39, 217



236, 191, 255



39, 80, 217



116, 89, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



164, 39, 217



181, 5, 255



217, 39, 181



106, 99, 110



122, 0, 173



32, 0, 46



# Inverse Universe

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



217, 39, 92



255, 5, 80



39, 187, 217



110, 99, 102



173, 0, 52

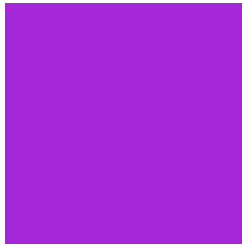


46, 0, 14



# Previews

## White Background



This preview shows how the RYB color 164, 39, 217 looks on a white background.

## Color Contrast Check

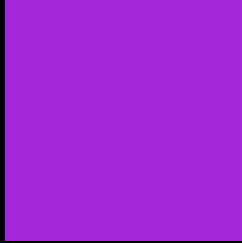
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the RYB color 164, 39, 217 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

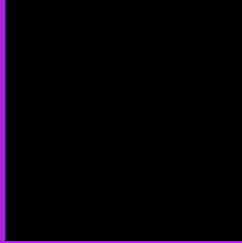
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## RYB 164, 39, 217 Background



This preview shows how black text looks on a background with the RYB color 164, 39, 217.

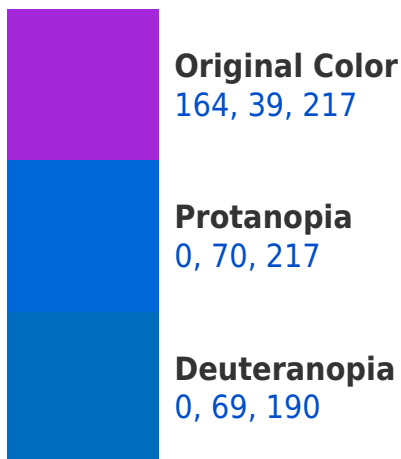


This preview shows how white text looks on a background with the RYB color 164, 39, 217.

# 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**  
145, 91, 97

# Trichromacy



**Original Color**

164, 39, 217



**Protanomaly**

60, 78, 217



**Deuteranomaly**

60, 80, 200



**Tritanomaly**

152, 72, 141

# Monochromacy



**Original Color**

164, 39, 217



**Achromatopsia**

97, 97, 97



**Achromatomaly**

121, 76, 141

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 164, 39, 217 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(164, 39, 217)` looks like.

```
.text, #text, p{  
    color:rgb(164, 39, 217)  
}
```

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(164, 39, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 39, 217) }
```

## Border

The CSS property to change the border of an element to RYB 164, 39, 217 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(164, 39, 217) }
```

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

```
.border{ border-color:rgb(164, 39, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 39, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(164, 39, 217); -webkit-box-shadow:4px 4px 4px 4px rgb(164, 39, 217); box-shadow:4px 4px 4px 4px rgb(164, 39, 217) }
```

# Background

The CSS property to change the background color of an element to RGB 164, 39, 217 is called "background".

The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 39, 217) }
```

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

```
.background{ background-color: rgb(164, 39,  
217) }
```

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](#).



Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor