

# Converting Colors

`RYB(77, 17, 227)`

Have a look what the booklet for  
RYB(77, 17, 227) contains.

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# Color

**R<sub>Y</sub>B(77, 17, 227)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4D11E3
RGB	77, 17, 227
RGB Percent	30%, 7%, 89%
CMY	0.6980, 0.9333, 0.1098
CMYK	0.66, 0.93, 0.00, 0.11
HSL	257°, 86%, 48%
HSV	257°, 93%, 89%
XYZ	17.1261, 7.5247, 73.2228
YIQ	58.8800, -31.6500, 78.0300

# Conversions

## Conversions Part 2

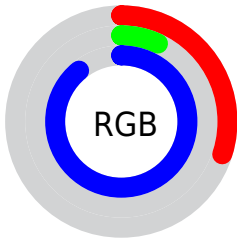
Format	Color
R <sub>YB</sub>	77, 17, 227
Decimal	5050851
CIE Lab	32.97, 71.32, -90.79
CIE LCh	33, 115.450, 308.151
Yxy	7.5247, 0.1750, 0.0769
Android (android.graphics.Color)	4283240931 (0xFF4D11E3)
YUV	58.8800, 82.8832, 15.8912
Hunter-Lab	27.4312, 63.4382, -139.0622

# Details

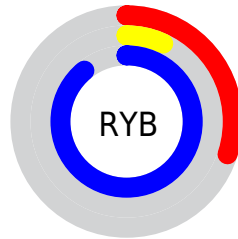
The RYB color **77, 17, 227** is a dark color, and the websafe version is hex **3300CC**. The color can be described as dark washed blue. A complement of this color would be **17, 227, 77**, and the grayscale version is **58, 58, 58**.

A 20% lighter version of the original color is **145, 79, 255**, and **0, 0, 170** is the 20% darker color. If you saturate the color by 10%, you get **65, 0, 227**, and if you desaturate by 10%, it is **93, 40, 227**.

# Distribution



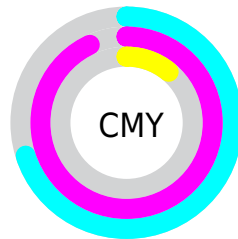
- Red (30%)
- Green (7%)
- Blue (89%)



- Red (30%)
- Yellow (7%)
- Blue (89%)



- Cyan (66%)
- Magenta (93%)
- Yellow (0%)
- Black (11%)






















- Cyan (70%)
- Magenta (93%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 77, 17, 227 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 77, 17, 227 by changing the saturation by 10% instead.



 77, 17, 227	 77, 17, 227
 255, 255, 255	 28, 0, 198
 145, 79, 255	 0, 0, 170
 177, 106, 255	 0, 0, 142
 209, 133, 255	 0, 0, 116
 240, 161, 255	 0, 11, 90
 255, 189, 255	 0, 6, 65
 255, 218, 255	 0, 3, 42
 255, 247, 255	 0, 1, 20
	 0, 0, 0

■ 77, 17, 227

■ 77, 17, 227

■ 65, 0, 227

■ 93, 40, 227

■ 109, 62, 227

■ 126, 85, 227

■ 142, 108, 227

■ 158, 131, 227

■ 174, 153, 227

■ 190, 176, 227

■ 207, 199, 227

■ 223, 221, 227

# Harmonies

## Analogous

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



0, 66, 255



77, 17, 227



194, 0, 148

# Triad

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



77, 17, 227



146, 53, 0



0, 53, 105

# Complementary

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



*77, 17, 227*



*17, 227, 77*

# 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, 102, 102



77, 17, 227



0, 83, 10

# Square

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



77, 17, 227



198, 0, 0



0, 98, 98



0, 69, 192

# Rectangle

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



77, 17, 227



217, 0, 88



0, 98, 98



0, 62, 104



# Sweetspot

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



77, 17, 227



204, 184, 255



17, 105, 227



97, 84, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



77, 17, 227



73, 0, 255



181, 17, 227



107, 103, 115



51, 0, 179



15, 0, 51



# Inverse Universe

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



227, 17, 167



255, 0, 182



17, 227, 181



115, 103, 111



179, 0, 128

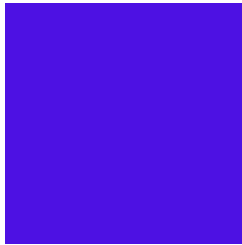


51, 0, 36



# Previews

## White Background



This preview shows how the RYB color 77, 17, 227 looks on a white background.

## Color Contrast Check

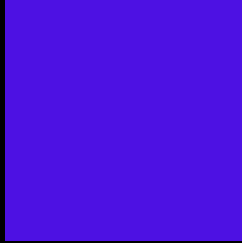
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



This preview shows how the RYB color 77, 17, 227 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

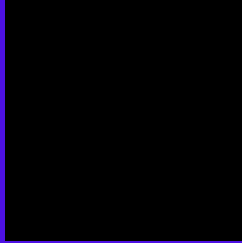
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## R Y B 77, 17, 227 Background



This preview shows how black text looks on a background with the RYB color 77, 17, 227.



This preview shows how white text looks on a background with the RYB color 77, 17, 227.

# 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**


77, 17, 227

**Protanopia**

0, 51, 158

**Deuteranopia**

0, 50, 134



**Tritanopia**  
0, 44, 92

# Trichromacy



**Original Color**

77, 17, 227

**Protanomaly**

28, 50, 183

**Deuteranomaly**

28, 52, 168

**Tritanomaly**

28, 54, 141

# Monochromacy



**Original Color**

77, 17, 227

**Achromatopsia**

59, 59, 59

**Achromatomaly**

66, 44, 120

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 77, 17, 227 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(77, 17, 227)` looks like.

```
.text, #text, p{  
    color:rgb(77, 17, 227)  
}
```

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(77, 17, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 17, 227) }
```

## Border

The CSS property to change the border of an element to RYB 77, 17, 227 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(77, 17, 227) }
```

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

```
.border{ border-color:rgb(77, 17, 227) }
```

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

Here you see how a box with a 4 pixel rgb(77, 17, 227) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 17, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 17, 227);  
box-shadow:4px 4px 4px 4px rgb(77, 17,  
227) }
```

# Background

The CSS property to change the background color of an element to RYB 77, 17, 227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 17, 227) }
```

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

```
.background{ background-color: rgb(77, 17,  
227) }
```

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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