

# Converting Colors

`RYB(45, 85, 227)`

Have a look what the booklet for  
RYB(45, 85, 227) contains.

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# Color

**R<sub>Y</sub>B(45, 85, 227)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	2D60E3
RGB	45, 96, 227
RGB Percent	18%, 38%, 89%
CMY	0.8235, 0.6225, 0.1098
CMYK	0.80, 0.58, 0.00, 0.11
HSL	223°, 76%, 53%
HSV	223°, 80%, 89%
XYZ	19.1546, 14.5186, 74.4659
YIQ	95.6850, -72.4470, 29.9290

# Conversions

## Conversions Part 2

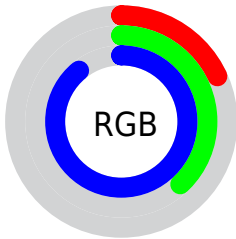
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	45, 85, 227
Decimal	2973923
CIE <sub>Lab</sub>	44.97, 30.35, -71.09
CIE <sub>LCh</sub>	45, 77.301, 293.120
Yxy	14.5186, 0.1771, 0.1343
Android (android.graphics.Color)	4281164003 (0xFF2D60E3)
YUV	95.6850, 64.7383, -44.4507
Hunter-Lab	38.1033, 23.0518, -89.1991

# Details

The RYB color **45, 85, 227** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed azure. A complement of this color would be **116, 227, 45**, and the grayscale version is **95, 95, 95**.

A 20% lighter version of the original color is **120, 142, 255**, and **0, 39, 170** is the 20% darker color. If you saturate the color by 10%, you get **22, 67, 227**, and if you desaturate by 10%, it is **68, 103, 227**.

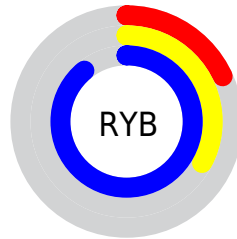
# Distribution



Red (18%)

Green (38%)

Blue (89%)



Red (18%)

Yellow (33%)

Blue (89%)

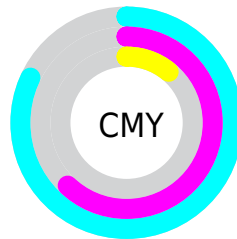


Cyan (80%)

Magenta (58%)

Yellow (0%)

Black (11%)



Cyan (82%)

Magenta (62%)


















Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 45, 85, 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 45, 85, 227 by changing the saturation by 10% instead.



 45, 85, 227	 45, 85, 227
 255, 255, 255	 0, 53, 198
 120, 142, 255	 0, 39, 170
 152, 169, 255	 0, 26, 143
 183, 197, 255	 0, 13, 117
 214, 224, 255	 0, 7, 91
 245, 250, 255	 0, 6, 67
	 0, 3, 43
	 0, 1, 22
	 0, 0, 0

■ 45, 85, 227

■ 45, 85, 227

■ 22, 67, 227

■ 68, 103, 227

■ 0, 50, 227

■ 90, 120, 227

■ 113, 138, 227

■ 136, 156, 227

■ 159, 174, 227

■ 181, 191, 227

■ 204, 209, 227

■ 227, 227, 227

■ 235, 249, 227

# Harmonies

## Analogous

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



0, 80, 236



45, 85, 227



166, 56, 185

# Triad

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



45, 85, 227



187, 102, 0



0, 79, 132

# Complementary

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



45, 85, 227



116, 227, 45

# 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, 118, 127



45, 85, 227



64, 143, 0

# Square

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



45, 85, 227



213, 2, 61



0, 118, 36



0, 72, 156

# Rectangle

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



45, 85, 227



200, 9, 145



0, 118, 36



0, 87, 131



# Sweetspot

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



45, 85, 227



194, 207, 255



45, 151, 227



91, 99, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



45, 85, 227



10, 64, 255



84, 45, 227



103, 106, 115



0, 39, 179



0, 11, 51



# Inverse Universe

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



227, 45, 96



255, 10, 79



45, 227, 84



115, 103, 107



179, 0, 50



51, 0, 14



# Previews

## White Background



This preview shows how the RYB color 45, 85, 227 looks on a white background.

## Color Contrast Check

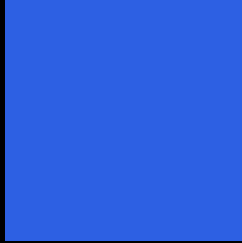
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the RYB color 45, 85, 227 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

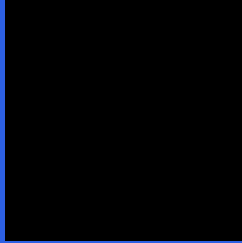
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## **RYB 45, 85, 227 Background**



This preview shows how black text looks on a background with the RYB color 45, 85, 227.



This preview shows how white text looks on a background with the RYB color 45, 85, 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





**Tritanopia**  
0, 60, 125

# Trichromacy



**Original Color**

45, 85, 227

**Protanomaly**

16, 76, 220

**Deuteranomaly**

16, 76, 201

**Tritanomaly**

16, 73, 162

# Monochromacy



**Original Color**

45, 85, 227

**Achromatopsia**

96, 96, 96

**Achromatomaly**

77, 92, 144

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 45, 85, 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(45, 96, 227)` looks like.

```
.text, #text, p{  
    color:rgb(45, 96, 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(45, 96, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 96, 227) }
```

## Border

The CSS property to change the border of an element to RYB 45, 85, 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(45, 96, 227) }
```

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

```
.border{ border-color:rgb(45, 96, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 96, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 96, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 96, 227);  
box-shadow:4px 4px 4px 4px rgb(45, 96,  
227) }
```

# Background

The CSS property to change the background color of an element to RYB 45, 85, 227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 96, 227) }
```

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

```
.background{ background-color: rgb(45, 96,  
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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