

Converting Colors

`RYB(45, 0, 156)`

Have a look what the booklet for
RYB(45, 0, 156) contains.

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Color

R_YB(45, 0, 156)

Conversions

Conversions Part 1

Format	Color
Hex	2D009C
RGB	45, 0, 156
RGB Percent	18%, 0%, 61%
CMY	0.8235, 1.0000, 0.3882
CMYK	0.71, 1.00, 0.00, 0.39
HSL	257°, 100%, 31%
HSV	257°, 100%, 61%
XYZ	7.0829, 2.9582, 31.6502
YIQ	31.2390, -23.2560, 58.0560

Conversions

Conversions Part 2

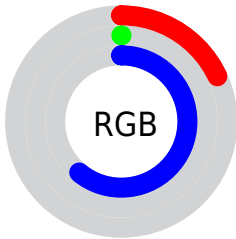
Format	Color
R _Y B	45, 0, 156
Decimal	2949276
CIE Lab	19.88, 55.77, -70.63
CIE LCh	20, 89.995, 308.295
Yxy	2.9582, 0.1699, 0.0710
Android (android.graphics.Color)	4281139356 (0xFF2D009C)
YUV	31.2390, 61.5072, 12.0684
Hunter-Lab	17.1994, 43.4098, -97.0654

Details

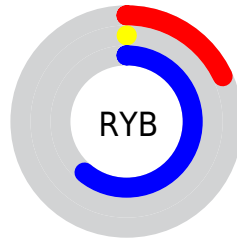
The RYB color **45, 0, 156** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **0, 156, 45**, and the grayscale version is **31, 31, 31**.

A 20% lighter version of the original color is **110, 59, 212**, and **0, 0, 103** is the 20% darker color. If you saturate the color by 10%, you get **45, 0, 156**, and if you desaturate by 10%, it is **56, 16, 156**.

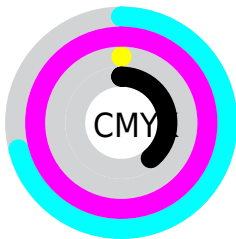
Distribution



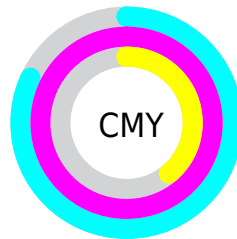
- Red (18%)
- Green (0%)
- Blue (61%)



- Red (18%)
- Yellow (0%)
- Blue (61%)



- Cyan (71%)
- Magenta (100%)
- Yellow (0%)
- Black (39%)



- Cyan (82%)
- Magenta (100%)
- Yellow (39%)


Brightness & Saturation Gradients

These gradients show how the RYB color 45, 0, 156 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, 0, 156 by changing the saturation by 10% instead.

 45, 0, 156  45, 0, 156

 255, 250, 255  0, 0, 129

 110, 59, 212  0, 0, 103

 140, 85, 241  0, 0, 78

 169, 111, 255  0, 5, 54

 199, 137, 255  0, 2, 32

 229, 164, 255  0, 0, 4

 255, 192, 255  0, 0, 0

 255, 221, 255

 45, 0, 156

■ 56, 16, 156

■ 67, 31, 156

■ 78, 47, 156

■ 89, 62, 156

■ 101, 78, 156

■ 112, 94, 156

■ 123, 109, 156

■ 134, 125, 156

■ 145, 140, 156

Harmonies

Analogous

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



0, 43, 186



45, 0, 156



132, 0, 99

Triad

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



45, 0, 156



96, 24, 0



0, 35, 68

Complementary

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



45, 0, 156



0, 156, 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, 66, 66



45, 0, 156



0, 52, 9

Square

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



45, 0, 156



133, 0, 0



0, 62, 62



0, 46, 131

Rectangle

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



45, 0, 156



148, 0, 55



0, 62, 62



0, 41, 67

Sweetspot

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



45, 0, 156



160, 143, 204



0, 65, 156



76, 65, 102



230, 230, 230



102, 102, 102

Same Dimension

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



45, 0, 156



59, 0, 204



122, 0, 156



73, 71, 79



41, 0, 143



4, 0, 15

Inverse Universe

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



156, 0, 111



204, 0, 145



0, 156, 122



79, 71, 77



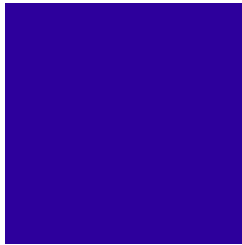
143, 0, 102



15, 0, 11

Previews

White Background



This preview shows how the RYB color 45, 0, 156 looks on a white background.

Color Contrast Check

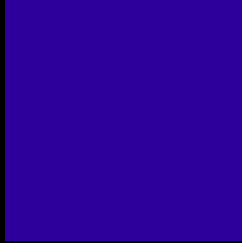
Large Text (above 18pt) WCAG AA ✓ Pass

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 45, 0, 156 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

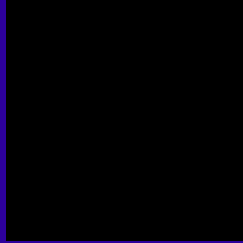
Any Text WCAG AA × Fail

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 45, 0, 156 Background



This preview shows how black text looks on a background with the RYB color 45, 0, 156.



This preview shows how white text looks on a background with the RYB color 45, 0, 156.

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


45, 0, 156

Protanopia

0, 34, 104

Deuteranopia

0, 33, 88



Tritanopia
0, 29, 60

Trichromacy



Original Color

45, 0, 156

Protanomaly

16, 30, 123

Deuteranomaly

16, 31, 113

Tritanomaly

16, 32, 95

Monochromacy



Original Color

45, 0, 156

Achromatopsia

31, 31, 31

Achromatomaly

36, 20, 76

CSS Examples

Text

The CSS property to change the color of the text to RYB 45, 0, 156 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, 0, 156)` looks like.

```
.text, #text, p{  
    color:rgb(45, 0, 156)  
}
```

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, 0, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 0, 156) }
```

Border

The CSS property to change the border of an element to RYB 45, 0, 156 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, 0, 156) }
```

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

```
.border{ border-color:rgb(45, 0, 156) }
```

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

Here you see how a box with a 4 pixel rgb(45, 0, 156) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 0, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 0, 156);  
box-shadow:4px 4px 4px 4px rgb(45, 0, 156)  
}
```

Background

The CSS property to change the background color of an element to RYB 45, 0, 156 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 0, 156) }
```

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

```
.background{ background-color: rgb(45, 0,  
156) }
```

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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