

Converting Colors

`RYB(87, 44, 160)`

Have a look what the booklet for
RYB(87, 44, 160) contains.

RYB(87, 44, 160)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	26
<i>CSS Examples</i>	29

Color

R_YB(87, 44, 160)

Conversions

Conversions Part 1

Format	Color
Hex	572CA0
RGB	87, 44, 160
RGB Percent	34%, 17%, 63%
CMY	0.6588, 0.8275, 0.3725
CMYK	0.46, 0.72, 0.00, 0.37
HSL	262°, 57%, 40%
HSV	262°, 72%, 63%
XYZ	11.1763, 6.3657, 33.8973
YIQ	70.0810, -11.6080, 45.1920

Conversions

Conversions Part 2

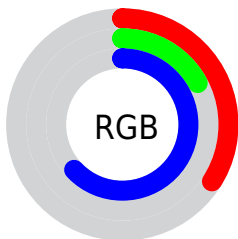
Format	Color
R_{YB}	87, 44, 160
Decimal	5713056
CIE _{Lab}	30.32, 45.32, -55.69
CIE _{LCh}	30, 71.800, 309.134
Yxy	6.3657, 0.2173, 0.1238
Android (android.graphics.Color)	4283903136 (0xFF572CA0)
YUV	70.0810, 44.3301, 14.8380
Hunter-Lab	25.2303, 34.9177, -61.9960

Details

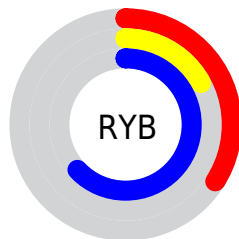
The RYB color **87, 44, 160** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **44, 160, 87**, and the grayscale version is **70, 70, 70**.

A 20% lighter version of the original color is **143, 94, 216**, and **26, 0, 107** is the 20% darker color. If you saturate the color by 10%, you get **77, 28, 160**, and if you desaturate by 10%, it is **97, 60, 160**.

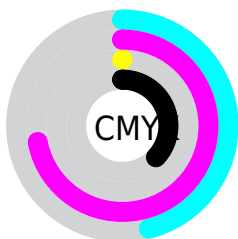
Distribution



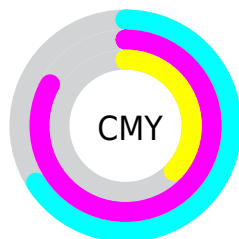
- Red (34%)
- Green (17%)
- Blue (63%)



- Red (34%)
- Yellow (17%)
- Blue (63%)



- Cyan (46%)
- Magenta (72%)
- Yellow (0%)
- Black (37%)



- Cyan (66%)
- Magenta (83%)
- Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the RYB color 87, 44, 160 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 87, 44, 160 by changing the saturation by 10% instead.

■ 87, 44, 160

■ 87, 44, 160

255, 255, 255

■ 59, 19, 133

■ 143, 94, 216

■ 26, 0, 107

■ 171, 119, 245

■ 0, 0, 82

■ 200, 146, 255

■ 0, 3, 58

■ 229, 173, 255

■ 0, 2, 36

■ 255, 200, 255

■ 0, 0, 11

■ 255, 229, 255

■ 0, 0, 0

■ 87, 44, 160

■ 87, 44, 160

■ 77, 28, 160

■ 97, 60, 160

67, 12, 160

107, 76, 160

59, 0, 160

117, 92, 160

127, 108, 160

137, 124, 160

147, 140, 160

157, 156, 160

160, 172, 164

160, 188, 170

Harmonies

Analogous

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



0, 53, 185



87, 44, 160



147, 0, 113

Triad

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



87, 44, 160



119, 96, 0



0, 47, 92

Complementary

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



87, 44, 160



44, 160, 87

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, 69, 90



87, 44, 160



0, 75, 2

Square

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



87, 44, 160



151, 0, 0



0, 86, 86



0, 56, 142

Rectangle

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



87, 44, 160



162, 0, 76



0, 86, 86



0, 53, 92

Sweetspot

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



87, 44, 160



180, 163, 209



44, 89, 160



87, 77, 105



232, 232, 232



105, 105, 105

Same Dimension

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



87, 44, 160



95, 27, 209



145, 44, 160



74, 71, 79



53, 0, 143



6, 0, 15

Inverse Universe

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



160, 44, 117



209, 27, 142



44, 160, 145



79, 71, 76



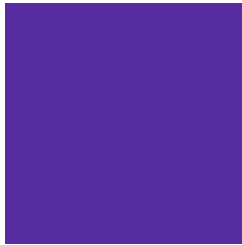
143, 0, 90



15, 0, 10

Previews

White Background



This preview shows how the RYB color 87, 44, 160 looks on a white background.

Color Contrast Check

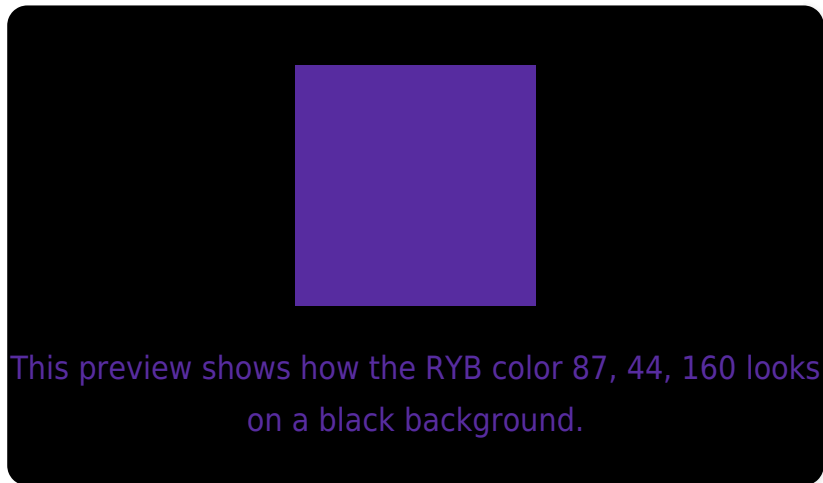
Large Text (above 18pt) WCAG AA ✓ Pass

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

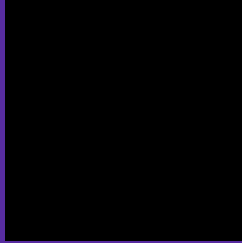
Any Text WCAG AA × Fail

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](#).

RYB 87, 44, 160 Background



This preview shows how black text looks on a background with the RYB color 87, 44, 160.



This preview shows how white text looks on a background with the RYB color 87, 44, 160.

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

87, 44, 160

Protanopia

0, 47, 146

Deuteranopia

0, 47, 126



Tritanopia

66, 70, 78

Trichromacy



Original Color
87, 44, 160

Protanomaly
32, 55, 151

Deuteranomaly
32, 56, 138

Tritanomaly
74, 62, 108

Monochromacy



Original Color
87, 44, 160

Achromatopsia
70, 70, 70

Achromatomaly
76, 61, 103

CSS Examples

Text

The CSS property to change the color of the text to RYB 87, 44, 160 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(87, 44, 160)` looks like.

```
.text, #text, p{  
    color:rgb(87, 44, 160)  
}
```

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(87, 44, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 44, 160) }
```

Border

The CSS property to change the border of an element to RYB 87, 44, 160 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(87, 44, 160) }
```

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

```
.border{ border-color:rgb(87, 44, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 44, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 44, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 44, 160);  
box-shadow:4px 4px 4px 4px rgb(87, 44,  
160) }
```

Background

The CSS property to change the background color of an element to RYB 87, 44, 160 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 44, 160) }
```

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

```
.background{ background-color: rgb(87, 44,  
160) }
```

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