

# Converting Colors

`RYB(130, 50, 150)`

Have a look what the booklet for  
RYB(130, 50, 150) contains.

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# Color

**R<sub>Y</sub>B(130, 50, 150)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	823296
RGB	130, 50, 150
RGB Percent	51%, 20%, 59%
CMY	0.4902, 0.8039, 0.4118
CMYK	0.13, 0.67, 0.00, 0.41
HSL	288°, 50%, 39%
HSV	288°, 67%, 59%
XYZ	15.8515, 9.2290, 29.8001
YIQ	85.3200, 15.5800, 48.0600

# Conversions

## Conversions Part 2

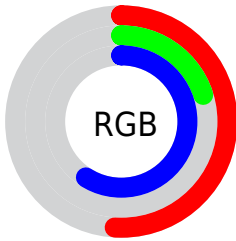
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	130, 50, 150
Decimal	8532630
CIE <sub>Lab</sub>	36.42, 49.27, -39.47
CIE <sub>LCh</sub>	36, 63.127, 321.299
Yxy	9.2290, 0.2888, 0.1682
Android (android.graphics.Color)	4286722710 (0xFF823296)
YUV	85.3200, 31.8872, 39.1844
Hunter-Lab	30.3793, 39.9752, -36.8940

# Details

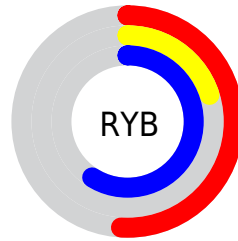
The RYB color **130, 50, 150** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **50, 150, 130**, and the grayscale version is **85, 85, 85**.

A 20% lighter version of the original color is **186, 102, 205**, and **77, 0, 98** is the 20% darker color. If you saturate the color by 10%, you get **127, 35, 150**, and if you desaturate by 10%, it is **133, 65, 150**.

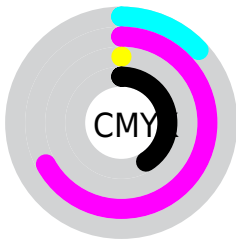
# Distribution



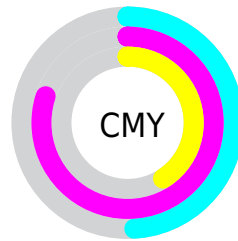
- Red (51%)
- Green (20%)
- Blue (59%)



- Red (51%)
- Yellow (20%)
- Blue (59%)



- Cyan (13%)
- Magenta (67%)
- Yellow (0%)
- Black (41%)




- Cyan (49%)
- Magenta (80%)
- Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 130, 50, 150 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 130, 50, 150 by changing the saturation by 10% instead.



 130, 50, 150

255, 255, 255

 186, 102, 205


 214, 129, 233

 243, 156, 255

 255, 184, 255


 255, 212, 255

 255, 241, 255

 130, 50, 150

 103, 21, 124

 77, 0, 98

 51, 0, 74

 28, 0, 51

 0, 2, 29

 0, 0, 0

 130, 50, 150

 127, 35, 150

 130, 50, 150

 133, 65, 150

124, 20, 150

136, 80, 150

121, 5, 150

139, 95, 150

120, 0, 150

142, 110, 150

145, 125, 150

148, 140, 150

150, 155, 154

150, 170, 166

150, 185, 178

# Harmonies

## Analogous

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



30, 67, 182



130, 50, 150



166, 7, 103

# Triad

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



130, 50, 150



61, 118, 0



0, 57, 121

# Complementary

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



130, 50, 150



50, 150, 130

# 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, 64, 106



130, 50, 150



0, 94, 23

# Square

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



130, 50, 150



152, 81, 0



0, 95, 102



0, 64, 165

# Rectangle

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



130, 50, 150



172, 0, 69



0, 95, 102



0, 54, 107



# Sweetspot

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



130, 50, 150



186, 155, 194



50, 67, 150



92, 74, 97



224, 224, 224



97, 97, 97



# Same Dimension

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



130, 50, 150



163, 39, 194



150, 50, 120



72, 67, 74



110, 0, 138



8, 0, 10



# Inverse Universe

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



150, 50, 70



194, 39, 70



50, 127, 150



74, 67, 68



138, 0, 28



10, 0, 2



# Previews

## White Background



This preview shows how the RYB color 130, 50, 150 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 130, 50, 150 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

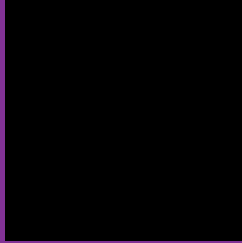
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## RYP 130, 50, 150 Background



This preview shows how black text looks on a background with the RYP color 130, 50, 150.

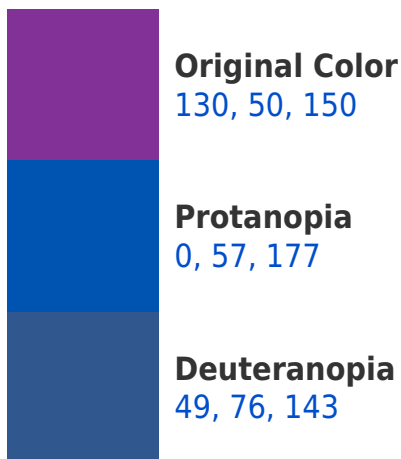


This preview shows how white text looks on a background with the RYP color 130, 50, 150.

# 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**  
120, 73, 78

# Trichromacy



**Original Color**

130, 50, 150



**Protanomaly**

47, 67, 167



**Deuteranomaly**

78, 74, 146



**Tritanomaly**

124, 65, 104

# Monochromacy



**Original Color**

130, 50, 150



**Achromatopsia**

85, 85, 85



**Achromatomaly**

101, 72, 109

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 130, 50, 150 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(130, 50, 150)` looks like.

```
.text, #text, p{  
    color:rgb(130, 50, 150)  
}
```

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(130, 50, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 50, 150) }
```

## Border

The CSS property to change the border of an element to RYB 130, 50, 150 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(130, 50, 150) }
```

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

```
.border{ border-color:rgb(130, 50, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 50, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 50, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 50, 150);  
box-shadow:4px 4px 4px 4px rgb(130, 50,  
150) }
```

# Background

The CSS property to change the background color of an element to RYB 130, 50, 150 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 50, 150) }
```

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

```
.background{ background-color: rgb(130, 50,  
150) }
```

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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