

# Converting Colors

`RYB(133, 37, 167)`

Have a look what the booklet for  
RYB(133, 37, 167) contains.

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# Color

**R<sub>Y</sub>B(133, 37, 167)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8525A7
RGB	133, 37, 167
RGB Percent	52%, 15%, 65%
CMY	0.4784, 0.8549, 0.3451
CMYK	0.20, 0.78, 0.00, 0.35
HSL	284°, 64%, 40%
HSV	284°, 78%, 65%
XYZ	17.3095, 9.0997, 37.4033
YIQ	80.5240, 15.4860, 60.7820

# Conversions

## Conversions Part 2

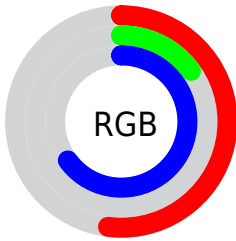
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 37, 167
Decimal	8725927
CIE <sub>Lab</sub>	36.18, 58.52, -50.11
CIE <sub>LCh</sub>	36, 77.043, 319.424
Yxy	9.0997, 0.2713, 0.1426
Android (android.graphics.Color)	4286916007 (0xFF8525A7)
YUV	80.5240, 42.6327, 46.0215
Hunter-Lab	30.1657, 49.6357, -52.3994

# Details

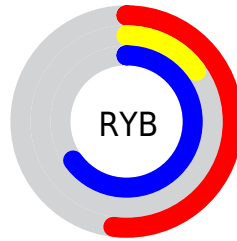
The RYB color **133, 37, 167** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **37, 167, 133**, and the grayscale version is **80, 80, 80**.

A 20% lighter version of the original color is **190, 93, 223**, and **78, 0, 114** is the 20% darker color. If you saturate the color by 10%, you get **129, 20, 167**, and if you desaturate by 10%, it is **137, 54, 167**.

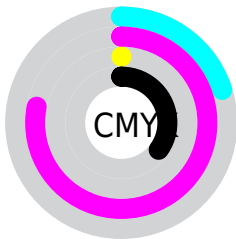
# Distribution



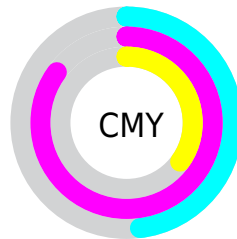
- Red (52%)
- Green (15%)
- Blue (65%)



- Red (52%)
- Yellow (15%)
- Blue (65%)



- Cyan (20%)
- Magenta (78%)
- Yellow (0%)
- Black (35%)



- Cyan (48%)
- Magenta (85%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 133, 37, 167 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 133, 37, 167 by changing the saturation by 10% instead.





133, 37, 167



133, 37, 167

255, 255, 255



105, 0, 140



190, 93, 223



78, 0, 114



219, 120, 252



51, 0, 89



248, 148, 255



24, 0, 65



255, 176, 255



0, 3, 41



255, 204, 255



0, 1, 19



255, 233, 255



0, 0, 0



133, 37, 167



133, 37, 167



129, 20, 167



137, 54, 167

124, 4, 167

142, 70, 167

123, 0, 167

146, 87, 167

150, 104, 167

155, 121, 167

159, 137, 167

164, 154, 167

167, 171, 170

167, 187, 182

# Harmonies

## Analogous

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



0, 57, 204



133, 37, 167



179, 0, 110

# Triad

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



133, 37, 167



79, 123, 0



0, 58, 125

# Complementary

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



133, 37, 167



37, 167, 133

# 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, 108



133, 37, 167



0, 94, 28

# Square

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



133, 37, 167



164, 46, 0



0, 104, 104



0, 68, 180

# Rectangle

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



133, 37, 167



188, 0, 69



0, 104, 104



0, 56, 109



# Sweetspot

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



133, 37, 167



204, 167, 217



37, 65, 167



102, 79, 110



237, 237, 237



110, 110, 110



# Same Dimension

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



133, 37, 167



164, 15, 217



167, 37, 137



82, 76, 84



109, 0, 148



15, 0, 20



# Inverse Universe

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



167, 37, 71



217, 15, 68



37, 143, 167



84, 76, 78



148, 0, 39

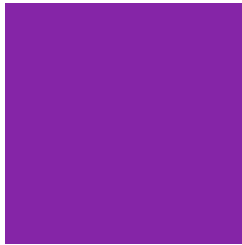


20, 0, 5



# Previews

## White Background



This preview shows how the RYB color 133, 37, 167 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 133, 37, 167 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

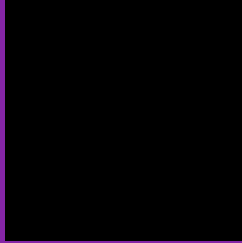
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## **RYB 133, 37, 167 Background**



This preview shows how black text looks on a background with the RYB color 133, 37, 167.

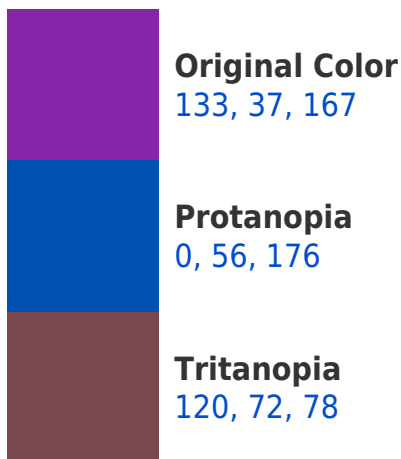


This preview shows how white text looks on a background with the RYB color 133, 37, 167.

# 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



# Trichromacy



**Original Color**

133, 37, 167



**Protanomaly**

48, 64, 173



**Tritanomaly**

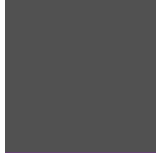
125, 59, 110

# Monochromacy



**Original Color**

133, 37, 167



**Achromatopsia**

81, 81, 81



**Achromatomaly**

100, 65, 112

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 133, 37, 167 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(133, 37, 167)` looks like.

```
.text, #text, p{  
    color:rgb(133, 37, 167)  
}
```

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(133, 37, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 37, 167) }
```

## Border

The CSS property to change the border of an element to RYB 133, 37, 167 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(133, 37, 167) }
```

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

```
.border{ border-color:rgb(133, 37, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 37, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(133, 37, 167); -webkit-box-shadow:4px 4px 4px 4px rgb(133, 37, 167); box-shadow:4px 4px 4px 4px rgb(133, 37, 167) }
```

# Background

The CSS property to change the background color of an element to RGB 133, 37, 167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 37, 167) }
```

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

```
.background{ background-color: rgb(133, 37,  
167) }
```

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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