

# Converting Colors

`RYB(163, 71, 173)`

Have a look what the booklet for  
RYB(163, 71, 173) contains.

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# Color

**`RYB(163, 71, 173)`**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A347AD
RGB	163, 71, 173
RGB Percent	64%, 28%, 68%
CMY	0.3608, 0.7216, 0.3216
CMYK	0.06, 0.59, 0.00, 0.32
HSL	294°, 42%, 48%
HSV	294°, 59%, 68%
XYZ	24.9003, 15.3101, 41.1779
YIQ	110.1360, 22.0900, 51.2260

# Conversions

## Conversions Part 2

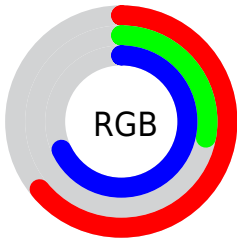
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	163, 71, 173
Decimal	10700717
CIE <sub>Lab</sub>	46.06, 52.45, -37.64
CIE <sub>LCh</sub>	46, 64.557, 324.336
Yxy	15.3101, 0.3059, 0.1881
Android (android.graphics.Color)	4288890797 (0xFFA347AD)
YUV	110.1360, 30.9920, 46.3617
Hunter-Lab	39.1282, 45.1192, -35.0062

# Details

The RYB color **163, 71, 173** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **71, 173, 163**, and the grayscale version is **110, 110, 110**.

A 20% lighter version of the original color is **220, 124, 229**, and **108, 9, 120** is the 20% darker color. If you saturate the color by 10%, you get **161, 54, 173**, and if you desaturate by 10%, it is **165, 88, 173**.

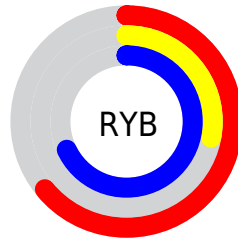
# Distribution



Red (64%)

Green (28%)

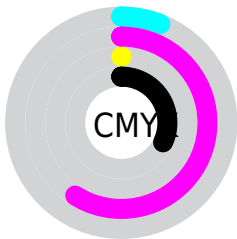
Blue (68%)



Red (64%)

Yellow (28%)

Blue (68%)

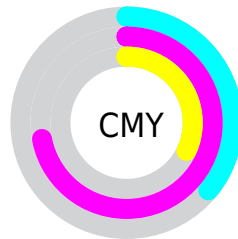


Cyan (6%)

Magenta (59%)

Yellow (0%)

Black (32%)



Cyan (36%)

Magenta (72%)


Yellow (32%)

# Brightness & Saturation Gradients


These gradients show how the RYB color 163, 71, 173 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 163, 71, 173 by changing the saturation by 10% instead.



 163, 71, 173

255, 255, 255


 220, 124, 229

 250, 152, 255

 255, 179, 255

 255, 208, 255

 255, 237, 255

 163, 71, 173

 135, 44, 146

 108, 9, 120

 82, 0, 95


 56, 0, 71


 32, 0, 48

 0, 1, 26

 0, 0, 0

 163, 71, 173


 161, 54, 173


 163, 71, 173

 165, 88, 173


 160, 36, 173

 166, 106, 173


 158, 19, 173

 168, 123, 173

 156, 2, 173

 170, 140, 173

 156, 0, 173

 171, 158, 173

 173, 175, 175

 173, 192, 190

 173, 209, 205

 173, 227, 222

# Harmonies

## Analogous

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



81, 97, 209



163, 71, 173



198, 45, 122

# Triad

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



163, 71, 173



52, 141, 0



0, 71, 152

# Complementary

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



163, 71, 173



71, 173, 163

# 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, 76, 132



163, 71, 173



0, 119, 29

# Square

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



163, 71, 173



180, 122, 13



0, 98, 128



0, 78, 197

# Rectangle

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



163, 71, 173



203, 45, 86



0, 98, 128



0, 67, 134



# Sweetspot

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



163, 71, 173



220, 184, 224



71, 80, 173



110, 88, 112



240, 240, 240



112, 112, 112



# Same Dimension

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



163, 71, 173



209, 65, 224



173, 71, 132



86, 78, 87



136, 0, 150



21, 0, 23



# Inverse Universe

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



173, 71, 81



224, 65, 81



71, 144, 173



87, 78, 79



150, 0, 15

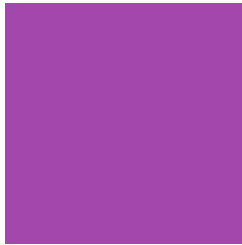


23, 0, 2



# Previews

## White Background



This preview shows how the RYB color 163, 71, 173 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 163, 71, 173 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

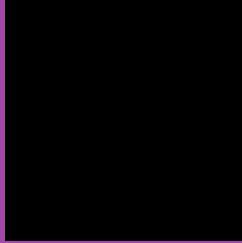
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## RYP 163, 71, 173 Background



This preview shows how black text looks on a background with the RYP color 163, 71, 173.

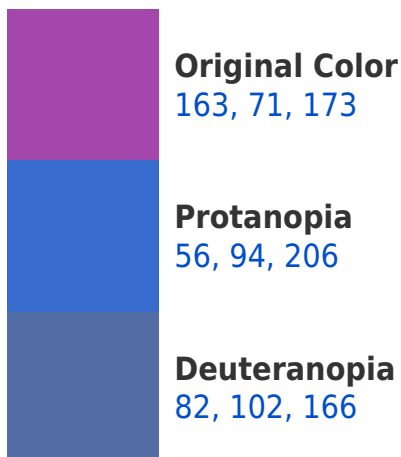


This preview shows how white text looks on a background with the RYP color 163, 71, 173.

# 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



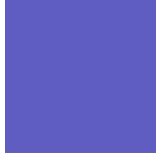


**Tritanopia**  
153, 92, 98

# Trichromacy



**Original Color**  
163, 71, 173



**Protanomaly**  
95, 93, 194



**Deuteranomaly**  
111, 95, 169



**Tritanomaly**  
157, 84, 125

# Monochromacy



**Original Color**  
163, 71, 173



**Achromatopsia**  
110, 110, 110



**Achromatomaly**  
129, 96, 133

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 163, 71, 173 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(163, 71, 173)` looks like.

```
.text, #text, p{  
    color:rgb(163, 71, 173)  
}
```

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(163, 71, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 71, 173) }
```

## Border

The CSS property to change the border of an element to RYB 163, 71, 173 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(163, 71, 173) }
```

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

```
.border{ border-color:rgb(163, 71, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 71, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 71, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 71, 173);  
box-shadow:4px 4px 4px 4px rgb(163, 71,  
173) }
```

# Background

The CSS property to change the background color of an element to RGB 163, 71, 173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 71, 173) }
```

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

```
.background{ background-color: rgb(163, 71,  
173) }
```

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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