

# Converting Colors

`RYB(230, 46, 202)`

Have a look what the booklet for  
RYB(230, 46, 202) contains.

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# Color

**$\text{RYB}(230, 46, 202)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	E62ECA
RGB	230, 46, 202
RGB Percent	90%, 18%, 79%
CMY	0.0980, 0.8196, 0.2078
CMYK	0.00, 0.80, 0.12, 0.10
HSL	309°, 79%, 54%
HSV	309°, 80%, 90%
XYZ	44.2708, 23.0413, 57.9912
YIQ	118.8000, 59.5880, 87.5240

# Conversions

## Conversions Part 2

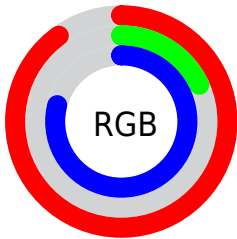
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	230, 46, 202
Decimal	15085258
CIE <sub>Lab</sub>	55.11, 81.05, -39.51
CIE <sub>LCh</sub>	55, 90.167, 334.015
Yxy	23.0413, 0.3533, 0.1839
Android (android.graphics.Color)	4293275338 (0xFFE62ECA)
YUV	118.8000, 41.0176, 97.5224
Hunter-Lab	48.0013, 80.6253, -38.0283

# Details

The RYB color **230, 46, 202** is a light color, and the websafe version is hex **FF33CC**. The color can be described as light washed magenta. A complement of this color would be **46, 206, 230**, and the grayscale version is **118, 118, 118**.

A 20% lighter version of the original color is **255, 114, 255**, and **170, 0, 147** is the 20% darker color. If you saturate the color by 10%, you get **230, 23, 199**, and if you desaturate by 10%, it is **230, 69, 206**.

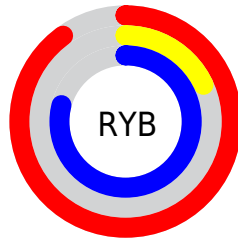
# Distribution



Red (90%)

Green (18%)

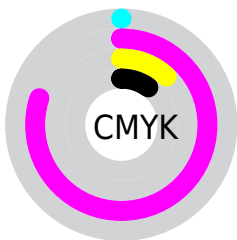
Blue (79%)



Red (90%)

Yellow (18%)

Blue (79%)

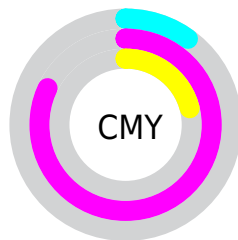


Cyan (0%)

Magenta (80%)

Yellow (12%)

Black (10%)



Cyan (10%)

Magenta (82%)


Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 230, 46, 202 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 230, 46, 202 by changing the saturation by 10% instead.



 230, 46, 202

 230, 46, 202

255, 255, 255

 200, 0, 174

 255, 114, 255

 170, 0, 147

 255, 144, 255

 141, 0, 121

 255, 174, 255

 112, 0, 96

 255, 204, 255

 83, 0, 72

 255, 234, 255


 56, 0, 48


 23, 0, 26

 0, 0, 0


 230, 46, 202


 230, 46, 202


 230, 23, 199


 230, 69, 206


 230, 0, 195

 230, 92, 209

 230, 115, 213

 230, 138, 216

 230, 161, 220

 230, 184, 223

 230, 207, 227

 230, 230, 230

 230, 250, 253

# Harmonies

## Analogous

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



136, 105, 255



230, 46, 202



255, 0, 125

# Triad

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



230, 46, 202



20, 151, 0



0, 94, 218

# Complementary

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



230, 46, 202



46, 206, 230

# 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, 88, 164



230, 46, 202



0, 151, 86

# Square

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



230, 46, 202



213, 188, 0



0, 118, 160



0, 98, 255

# Rectangle

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



230, 46, 202



255, 8, 74



0, 118, 160



0, 89, 194



# Sweetspot

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



230, 46, 202



255, 194, 246



74, 46, 230



128, 91, 122



0, 0, 0



128, 128, 128



# Same Dimension

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



230, 46, 202



255, 10, 218



230, 46, 110



115, 103, 113



179, 0, 151



51, 0, 43



# Inverse Universe

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



230, 46, 202



255, 10, 218



46, 157, 230



115, 103, 113



179, 0, 151



51, 0, 43



# Previews

## White Background



This preview shows how the RYB color 230, 46, 202 looks on a white background.

## Color Contrast Check

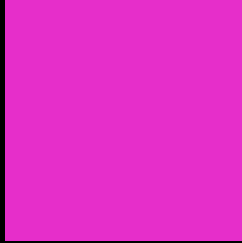
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the RYB color 230, 46, 202 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

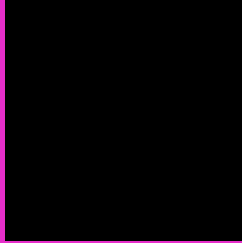
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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



## **RYB 230, 46, 202 Background**



This preview shows how black text looks on a background with the RYB color 230, 46, 202.

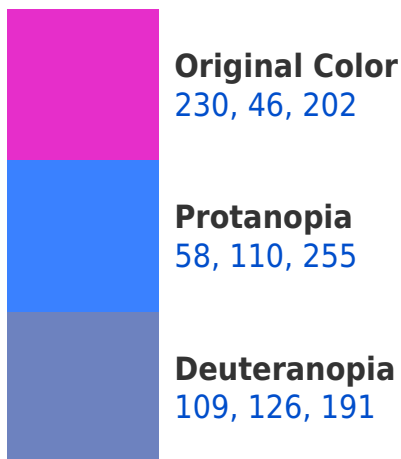


This preview shows how white text looks on a background with the RYB color 230, 46, 202.

# 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**  
220, 88, 94

# Trichromacy



**Original Color**

230, 46, 202



**Protanomaly**

121, 98, 236



**Deuteranomaly**

153, 100, 195



**Tritanomaly**

224, 73, 133

# Monochromacy



**Original Color**

230, 46, 202



**Achromatopsia**

119, 119, 119



**Achromatomaly**

159, 92, 149

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 230, 46, 202 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(230, 46, 202)` looks like.

```
.text, #text, p{  
    color:rgb(230, 46, 202)  
}
```

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(230, 46, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 46, 202) }
```

## Border

The CSS property to change the border of an element to RYB 230, 46, 202 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(230, 46, 202) }
```

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

```
.border{ border-color:rgb(230, 46, 202) }
```

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

Here you see how a box with a 4 pixel rgb(230, 46, 202) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 46, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 46, 202);  
box-shadow:4px 4px 4px 4px rgb(230, 46,  
202) }
```

# Background

The CSS property to change the background color of an element to RGB 230, 46, 202 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 46, 202) }
```

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

```
.background{ background-color: rgb(230, 46,  
202) }
```

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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