

Converting Colors

`RYB(172, 49, 206)`

Have a look what the booklet for
RYB(172, 49, 206) contains.

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Color

R_YB(172, 49, 206)

Conversions

Conversions Part 1

Format	Color
Hex	AC31CE
RGB	172, 49, 206
RGB Percent	67%, 19%, 81%
CMY	0.3255, 0.8078, 0.1922
CMYK	0.17, 0.76, 0.00, 0.19
HSL	287°, 62%, 50%
HSV	287°, 76%, 81%
XYZ	29.2521, 15.4235, 59.8278
YIQ	103.6750, 22.9110, 74.9030

Conversions

Conversions Part 2

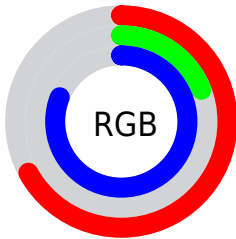
Format	Color
R_{YB}	172, 49, 206
Decimal	11284942
CIE _{Lab}	46.21, 69.44, -56.55
CIE _{LCh}	46, 89.555, 320.838
Yxy	15.4235, 0.2799, 0.1476
Android (android.graphics.Color)	4289475022 (0xFFAC31CE)
YUV	103.6750, 50.4462, 59.9210
Hunter-Lab	39.2728, 64.2275, -62.8309

Details

The RYB color **172, 49, 206** is a dark color, and the websafe version is hex **9933CC**. The color can be described as middle muted purple. A complement of this color would be **49, 206, 172**, and the grayscale version is **103, 103, 103**.

A 20% lighter version of the original color is **231, 108, 255**, and **115, 0, 151** is the 20% darker color. If you saturate the color by 10%, you get **168, 28, 206**, and if you desaturate by 10%, it is **176, 70, 206**.

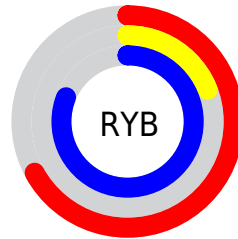
Distribution



Red (67%)

Green (19%)

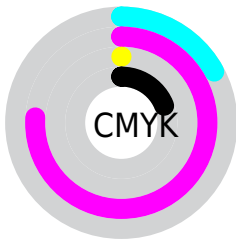
Blue (81%)



Red (67%)

Yellow (19%)

Blue (81%)

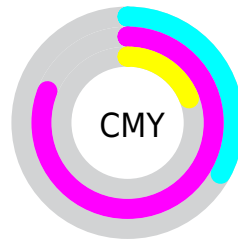


Cyan (17%)

Magenta (76%)

Yellow (0%)

Black (19%)



Cyan (33%)

Magenta (81%)

Yellow (19%)

Brightness & Saturation Gradients

These gradients show how the RYB color 172, 49, 206 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 172, 49, 206 by changing the saturation by 10% instead.



172, 49, 206



172, 49, 206

255, 255, 255



143, 2, 178



231, 108, 255



115, 0, 151



255, 137, 255



86, 0, 124



255, 165, 255



58, 0, 98



255, 194, 255



30, 0, 74



255, 223, 255



0, 0, 50



255, 253, 255



0, 1, 28



0, 0, 0



172, 49, 206



172, 49, 206

■ 168, 28, 206

■ 176, 70, 206

■ 163, 8, 206

■ 181, 90, 206

■ 161, 0, 206

■ 185, 111, 206

■ 190, 131, 206

■ 194, 152, 206

■ 199, 173, 206

■ 203, 193, 206

■ 206, 214, 212

■ 206, 234, 228

Harmonies

Analogous

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



0, 72, 253



172, 49, 206



226, 0, 136

Triad

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



172, 49, 206



86, 153, 0



0, 75, 161

Complementary

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



172, 49, 206



49, 206, 172

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, 85, 137



172, 49, 206



0, 121, 37

Square

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



172, 49, 206



204, 73, 0



0, 132, 132



0, 85, 227

Rectangle

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



172, 49, 206



234, 0, 86



0, 132, 132



0, 70, 139

Sweetspot

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



172, 49, 206



242, 196, 255



49, 77, 206



120, 92, 128



0, 0, 0



128, 128, 128

Same Dimension

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



172, 49, 206



205, 23, 255



206, 49, 162



100, 92, 102



130, 0, 166



30, 0, 38

Inverse Universe

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



206, 49, 83



255, 23, 73



49, 172, 206



102, 92, 94



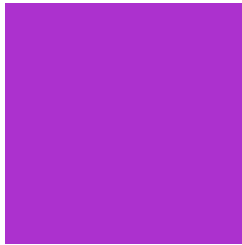
166, 0, 36



38, 0, 8

Previews

White Background



This preview shows how the RYB color 172, 49, 206 looks on a white background.

Color Contrast Check

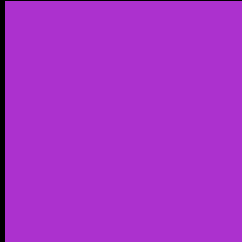
Large Text (above 18pt) WCAG AA ✓ Pass

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 172, 49, 206 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

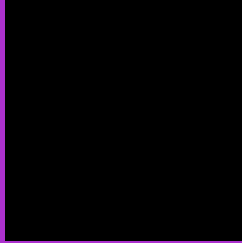
Any Text WCAG AA × Fail

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](#).

RYB 172, 49, 206 Background



This preview shows how black text looks on a background with the RYB color 172, 49, 206.



This preview shows how white text looks on a background with the RYB color 172, 49, 206.

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
172, 49, 206

Protanopia
0, 72, 225

Deuteranopia
30, 85, 196



Tritanopia
157, 90, 97

Trichromacy



Original Color

172, 49, 206



Protanomaly

63, 82, 218



Deuteranomaly

82, 89, 200



Tritanomaly

162, 75, 137

Monochromacy



Original Color

172, 49, 206



Achromatopsia

104, 104, 104



Achromatomaly

129, 84, 141

CSS Examples

Text

The CSS property to change the color of the text to RYB 172, 49, 206 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(172, 49, 206)` looks like.

```
.text, #text, p{  
  color:rgb(172, 49, 206)  
}
```

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(172, 49, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 49, 206) }
```

Border

The CSS property to change the border of an element to RYB 172, 49, 206 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(172, 49, 206) }
```

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

```
.border{ border-color:rgb(172, 49, 206) }
```

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

Here you see how a box with a 4 pixel rgb(172, 49, 206) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 49, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 49, 206);  
box-shadow:4px 4px 4px 4px rgb(172, 49,  
206) }
```

Background

The CSS property to change the background color of an element to RYB 172, 49, 206 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 49, 206) }
```

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

```
.background{ background-color: rgb(172, 49,  
206) }
```

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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