

# Converting Colors

`RYB(196, 18, 212)`

Have a look what the booklet for  
RYB(196, 18, 212) contains.

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# Color

**`RYB(196, 18, 212)`**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C412D4
RGB	196, 18, 212
RGB Percent	77%, 7%, 83%
CMY	0.2314, 0.9294, 0.1686
CMYK	0.08, 0.92, 0.00, 0.17
HSL	295°, 84%, 45%
HSV	295°, 92%, 83%
XYZ	34.8649, 16.9218, 63.7160
YIQ	93.3380, 43.8140, 98.0700

# Conversions

## Conversions Part 2

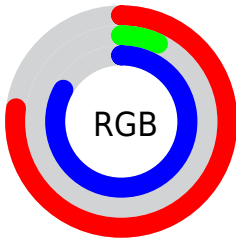
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	196, 18, 212
Decimal	12849876
CIE Lab	48.16, 81.36, -56.66
CIE LCh	48, 99.149, 325.146
Yxy	16.9218, 0.3019, 0.1465
Android (android.graphics.Color)	4291039956 (0xFFC412D4)
YUV	93.3380, 58.5004, 90.0346
Hunter-Lab	41.1362, 79.2992, -63.0393

# Details

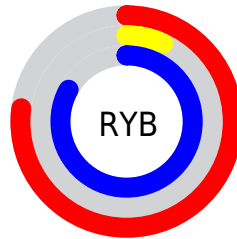
The RYB color **196, 18, 212** is a dark color, and the websafe version is hex **CC00CC**. The color can be described as middle washed magenta. A complement of this color would be **18, 212, 196**, and the grayscale version is **93, 93, 93**.

A 20% lighter version of the original color is **255, 96, 255**, and **137, 0, 156** is the 20% darker color. If you saturate the color by 10%, you get **195, 0, 212**, and if you desaturate by 10%, it is **198, 39, 212**.

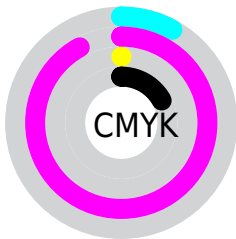
# Distribution



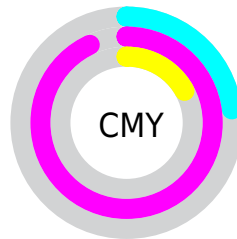
- Red (77%)
- Green (7%)
- Blue (83%)



- Red (77%)
- Yellow (7%)
- Blue (83%)



- Cyan (8%)
- Magenta (92%)
- Yellow (0%)
- Black (17%)





















- Cyan (23%)
- Magenta (93%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 196, 18, 212 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 196, 18, 212 by changing the saturation by 10% instead.



 196, 18, 212	 196, 18, 212
 255, 255, 255	 166, 0, 184
 255, 96, 255	 137, 0, 156
 255, 127, 255	 108, 0, 130
 255, 156, 255	 79, 0, 104
 255, 186, 255	 53, 0, 79
 255, 216, 255	 19, 0, 55
 255, 246, 255	 0, 2, 32
	 0, 0, 4
	 0, 0, 0

■ 196, 18, 212

■ 196, 18, 212

■ 195, 0, 212

■ 198, 39, 212

■ 199, 60, 212

■ 201, 82, 212

■ 203, 103, 212

■ 205, 124, 212

■ 206, 145, 212

■ 208, 166, 212

■ 210, 188, 212

■ 212, 209, 212

# Harmonies

## Analogous

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



0, 71, 255



196, 18, 212



247, 0, 132

# Triad

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



196, 18, 212



62, 151, 0



0, 81, 184

# Complementary

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



196, 18, 212



18, 212, 196

# 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, 87, 145



196, 18, 212



0, 130, 62

# Square

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



196, 18, 212



211, 84, 0



0, 140, 140



0, 92, 254

# Rectangle

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



196, 18, 212



252, 0, 77



0, 140, 140



0, 75, 156



# Sweetspot

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



196, 18, 212



249, 186, 255



18, 33, 212



124, 87, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



196, 18, 212



234, 0, 255



212, 18, 131



106, 96, 107



157, 0, 171



40, 0, 43



# Inverse Universe

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



212, 18, 34



255, 0, 21



18, 155, 212



107, 96, 97



171, 0, 14



43, 0, 4



# Previews

## White Background



This preview shows how the RYB color 196, 18, 212 looks on a white background.

## Color Contrast Check

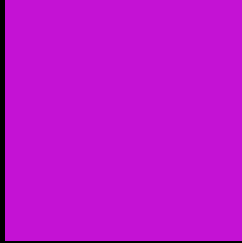
Large Text (above 18pt) WCAG AA ✓ Pass

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 196, 18, 212 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

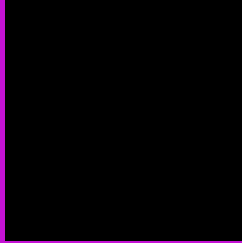
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## R Y B 196, 18, 212 Background



This preview shows how black text looks on a background with the RYB color 196, 18, 212.

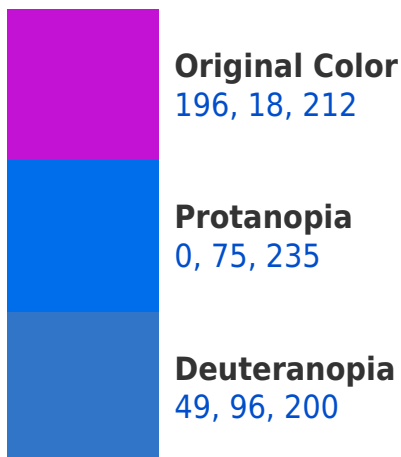


This preview shows how white text looks on a background with the RYB color 196, 18, 212.

# 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**  
181, 84, 90

# Trichromacy



**Original Color**

196, 18, 212



**Protanomaly**

71, 77, 227



**Deuteranomaly**

102, 81, 204



**Tritanomaly**

186, 60, 134

# Monochromacy



**Original Color**

196, 18, 212



**Achromatopsia**

93, 93, 93



**Achromatomaly**

130, 66, 136

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 196, 18, 212 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(196, 18, 212)` looks like.

```
.text, #text, p{  
    color:rgb(196, 18, 212)  
}
```

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(196, 18, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 18, 212) }
```

## Border

The CSS property to change the border of an element to RYB 196, 18, 212 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(196, 18, 212) }
```

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

```
.border{ border-color:rgb(196, 18, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 18, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 18, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 18, 212);  
box-shadow:4px 4px 4px 4px rgb(196, 18,  
212) }
```

# Background

The CSS property to change the background color of an element to RGB 196, 18, 212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 18, 212) }
```

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

```
.background{ background-color: rgb(196, 18,  
212) }
```

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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