

Converting Colors

`RYB(178, 0, 222)`

Have a look what the booklet for
RYB(178, 0, 222) contains.

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Color

R_YB(178, 0, 222)

Conversions

Conversions Part 1

Format	Color
Hex	B200DE
RGB	178, 0, 222
RGB Percent	70%, 0%, 87%
CMY	0.3020, 1.0000, 0.1294
CMYK	0.20, 1.00, 0.00, 0.13
HSL	288°, 100%, 44%
HSV	288°, 100%, 87%
XYZ	31.5449, 14.7389, 70.2895
YIQ	78.5300, 34.8260, 106.7780

Conversions

Conversions Part 2

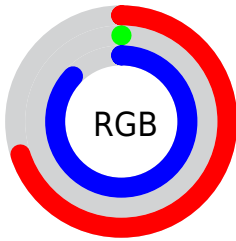
Format	Color
RYB	178, 0, 222
Decimal	11665630
CIELab	45.27, 82.06, -67.21
CIELCh	45, 106.072, 320.685
Yxy	14.7389, 0.2706, 0.1264
Android (android.graphics.Color)	4289855710 (0xFFB200DE)
YUV	78.5300, 70.7307, 87.2352
Hunter-Lab	38.3913, 79.4831, -81.6785

Details

The RYB color **178, 0, 222** is a dark color, and the websafe version is hex **9900CC**. The color can be described as middle washed purple. A complement of this color would be **0, 222, 178**, and the grayscale version is **78, 78, 78**.

A 20% lighter version of the original color is **238, 89, 255**, and **119, 0, 166** is the 20% darker color. If you saturate the color by 10%, you get **178, 0, 222**, and if you desaturate by 10%, it is **182, 22, 222**.

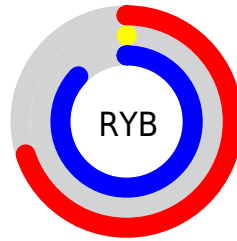
Distribution



Red (70%)

Green (0%)

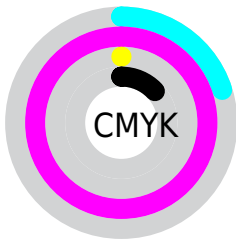
Blue (87%)



Red (70%)

Yellow (0%)

Blue (87%)

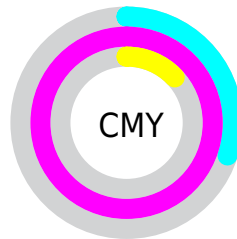


Cyan (20%)

Magenta (100%)

Yellow (0%)

Black (13%)



Cyan (30%)



















Magenta (100%)

Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the RYB color 178, 0, 222 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 178, 0, 222 by changing the saturation by 10% instead.

 178, 0, 222	 178, 0, 222
 255, 255, 255	 148, 0, 193
 238, 89, 255	 119, 0, 166
 255, 119, 255	 89, 0, 138
 255, 149, 255	 59, 0, 112
 255, 179, 255	 27, 0, 87
 255, 208, 255	 0, 0, 62
 255, 238, 255	 0, 3, 39
	 0, 1, 17
	 0, 0, 0

■ 178, 0, 222

■ 182, 22, 222

■ 187, 44, 222

■ 191, 67, 222

■ 196, 89, 222

■ 200, 111, 222

■ 204, 133, 222

■ 209, 155, 222

■ 213, 178, 222

■ 218, 200, 222

Harmonies

Analogous

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



0, 71, 255



178, 0, 222



241, 0, 139

Triad

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



178, 0, 222



98, 154, 0



0, 76, 168

Complementary

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



178, 0, 222



0, 222, 178

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, 89, 137



178, 0, 222



0, 121, 52

Square

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



178, 0, 222



214, 26, 0



0, 132, 132



0, 89, 246

Rectangle

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



178, 0, 222



251, 0, 81



0, 132, 132



0, 70, 139

Sweetspot

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



178, 0, 222



240, 179, 255



0, 37, 222



118, 82, 128



0, 0, 0



128, 128, 128

Same Dimension

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



178, 0, 222



204, 0, 255



222, 0, 155



110, 101, 112



141, 0, 176



39, 0, 48

Inverse Universe

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



222, 0, 44



255, 0, 51



0, 171, 222



112, 101, 103



176, 0, 35



48, 0, 10

Previews

White Background



This preview shows how the RYB color 178, 0, 222 looks on a white background.

Color Contrast Check

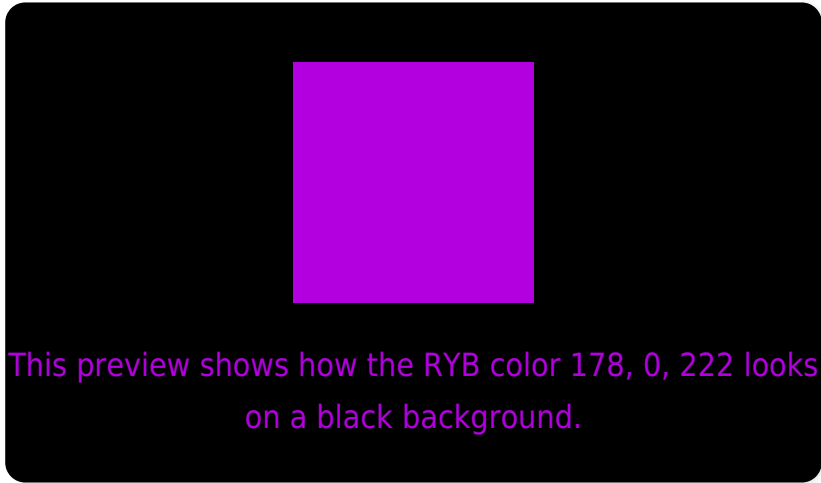
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

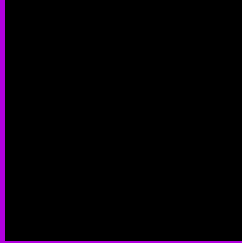
Any Text WCAG AA × Fail

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 178, 0, 222 Background



This preview shows how black text looks on a background with the R Y B color 178, 0, 222.



This preview shows how white text looks on a background with the R Y B color 178, 0, 222.

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

178, 0, 222

Protanopia

0, 71, 222

Deuteranopia

0, 71, 194



Tritanopia
160, 87, 93

Trichromacy



Original Color

178, 0, 222



Protanomaly

65, 67, 222



Deuteranomaly

65, 71, 204



Tritanomaly

167, 55, 140

Monochromacy



Original Color

178, 0, 222



Achromatopsia

79, 79, 79



Achromatomaly

115, 50, 131

CSS Examples

Text

The CSS property to change the color of the text to RYB 178, 0, 222 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(178, 0, 222)` looks like.

```
.text, #text, p{  
    color:rgb(178, 0, 222)  
}
```

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(178, 0, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 0, 222) }
```

Border

The CSS property to change the border of an element to RYB 178, 0, 222 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(178, 0, 222) }
```

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

```
.border{ border-color:rgb(178, 0, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 0, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 0, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 0, 222);  
box-shadow:4px 4px 4px 4px rgb(178, 0,  
222) }
```

Background

The CSS property to change the background color of an element to RYB 178, 0, 222 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 0, 222) }
```

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

```
.background{ background-color: rgb(178, 0,  
222) }
```

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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