

Converting Colors

`RYB(70, 0, 222)`

Have a look what the booklet for
RYB(70, 0, 222) contains.

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Color

R_YB(70, 0, 222)

Conversions

Conversions Part 1

Format	Color
Hex	4600DE
RGB	70, 0, 222
RGB Percent	27%, 0%, 87%
CMY	0.7255, 1.0000, 0.1294
CMYK	0.68, 1.00, 0.00, 0.13
HSL	259°, 100%, 44%
HSV	259°, 100%, 87%
XYZ	15.7106, 6.5760, 69.5485
YIQ	46.2380, -29.5420, 83.8820

Conversions

Conversions Part 2

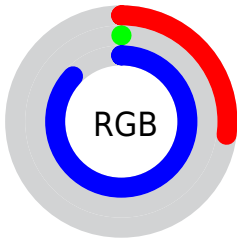
Format	Color
R _Y B	70, 0, 222
Decimal	4587742
CIE Lab	30.82, 72.59, -91.52
CIE LCh	31, 116.806, 308.420
Yxy	6.5760, 0.1711, 0.0716
Android (android.graphics.Color)	4282777822 (0xFF4600DE)
YUV	46.2380, 86.6507, 20.8393
Hunter-Lab	25.6437, 64.4812, -142.8500

Details

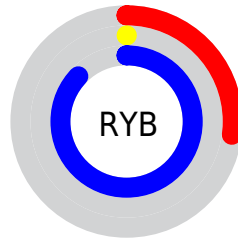
The RYB color **70, 0, 222** is a dark color, and the websafe version is hex **3300CC**. The color can be described as dark washed blue. A complement of this color would be **0, 222, 70**, and the grayscale version is **45, 45, 45**.

A 20% lighter version of the original color is **140, 71, 255**, and **0, 0, 165** is the 20% darker color. If you saturate the color by 10%, you get **70, 0, 222**, and if you desaturate by 10%, it is **85, 22, 222**.

Distribution



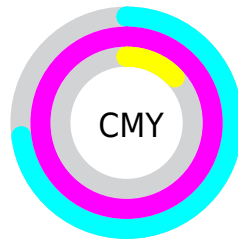
- Red (27%)
- Green (0%)
- Blue (87%)



- Red (27%)
- Yellow (0%)
- Blue (87%)



- Cyan (68%)
- Magenta (100%)
- Yellow (0%)
- Black (13%)























- Cyan (73%)
- Magenta (100%)
- Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the RYB color 70, 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 70, 0, 222 by changing the saturation by 10% instead.


 70, 0, 222	 70, 0, 222
 255, 255, 255	 10, 0, 193
 140, 71, 255	 0, 0, 165
 172, 99, 255	 0, 0, 138
 204, 126, 255	 0, 0, 111
 235, 154, 255	 0, 11, 85
 255, 182, 255	 0, 5, 61
 255, 211, 255	 0, 3, 38
 255, 240, 255	 0, 1, 15
	 0, 0, 0

 70, 0, 222


 85, 22, 222

 100, 44, 222


 116, 67, 222

 131, 89, 222

 146, 111, 222

 161, 133, 222

 176, 155, 222

 192, 178, 222

 207, 200, 222

Harmonies

Analogous

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



0, 63, 255



70, 0, 222



189, 0, 142

Triad

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



70, 0, 222



140, 43, 0



0, 50, 99

Complementary

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



70, 0, 222



0, 222, 70

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, 96, 96



70, 0, 222



0, 78, 12

Square

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



70, 0, 222



191, 0, 0



0, 92, 92



0, 66, 188

Rectangle

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



70, 0, 222



212, 0, 82



0, 92, 92



0, 59, 98

Sweetspot

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



70, 0, 222



203, 179, 255



0, 91, 222



96, 82, 128



0, 0, 0



128, 128, 128

Same Dimension

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



70, 0, 222



80, 0, 255



178, 0, 222



105, 101, 112



55, 0, 176



15, 0, 48

Inverse Universe

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



222, 0, 152



255, 0, 175



0, 222, 178



112, 101, 109



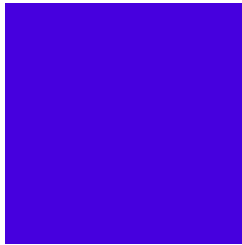
176, 0, 120



48, 0, 33

Previews

White Background



This preview shows how the RYB color 70, 0, 222 looks on a white background.

Color Contrast Check

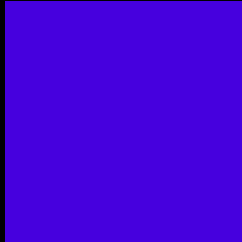
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the RYB color 70, 0, 222 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

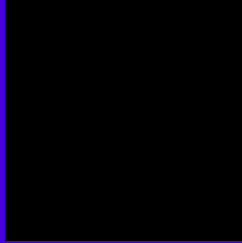
Any Text WCAG AA × Fail

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_YB 70, 0, 222 Background



This preview shows how black text looks on a background with the R_YB color 70, 0, 222.

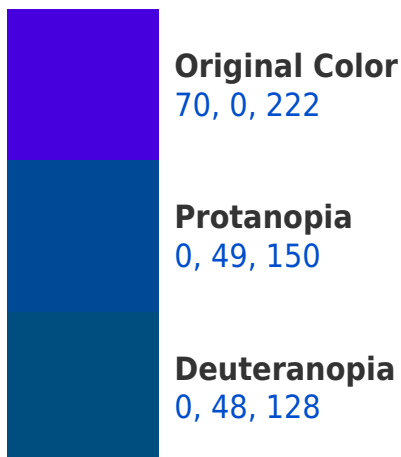



This preview shows how white text looks on a background with the R_YB color 70, 0, 222.

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





Tritanopia
0, 42, 87

Trichromacy



Original Color

70, 0, 222

Protanomaly

25, 43, 176

Deuteranomaly

25, 45, 162

Tritanomaly

25, 47, 136

Monochromacy



Original Color

70, 0, 222

Achromatopsia

46, 46, 46

Achromatomaly

55, 29, 110

CSS Examples

Text

The CSS property to change the color of the text to RYB 70, 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(70, 0, 222)` looks like.

```
.text, #text, p{  
    color:rgb(70, 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(70, 0, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 0, 222) }
```

Border

The CSS property to change the border of an element to RYB 70, 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(70, 0, 222) }
```

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

```
.border{ border-color:rgb(70, 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(70, 0, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 0, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 0, 222);  
box-shadow:4px 4px 4px 4px rgb(70, 0, 222)  
}
```

Background

The CSS property to change the background color of an element to RYB 70, 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(70, 0, 222) }
```

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

```
.background{ background-color: rgb(70, 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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