

Converting Colors

`RYB(117, 0, 230)`

Have a look what the booklet for
RYB(117, 0, 230) contains.

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Color

R_YB(117, 0, 230)

Conversions

Conversions Part 1

Format	Color
Hex	7500E6
RGB	117, 0, 230
RGB Percent	46%, 0%, 90%
CMY	0.5412, 1.0000, 0.0980
CMYK	0.49, 1.00, 0.00, 0.10
HSL	271°, 100%, 45%
HSV	271°, 100%, 90%
XYZ	21.6190, 9.4951, 75.5562
YIQ	61.2030, -4.0980, 96.3340

Conversions

Conversions Part 2

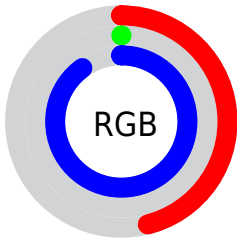
Format	Color
RYB	117, 0, 230
Decimal	7667942
CIELab	36.92, 77.11, -85.82
CIELCh	37, 115.374, 311.938
Yxy	9.4951, 0.2027, 0.0890
Android (android.graphics.Color)	4285858022 (0xFF7500E6)
YUV	61.2030, 83.2169, 48.9340
Hunter-Lab	30.8141, 71.3103, -123.8093

Details

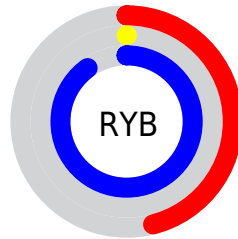
The RYB color **117, 0, 230** is a dark color, and the websafe version is hex **6633FF**. The color can be described as dark washed purple. A complement of this color would be **0, 230, 117**, and the grayscale version is **60, 60, 60**.

A 20% lighter version of the original color is **179, 79, 255**, and **46, 0, 173** is the 20% darker color. If you saturate the color by 10%, you get **117, 0, 230**, and if you desaturate by 10%, it is **128, 23, 230**.

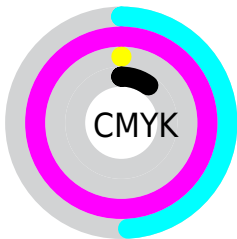
Distribution



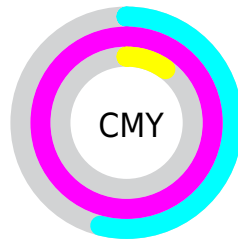
- Red (46%)
- Green (0%)
- Blue (90%)



- Red (46%)
- Yellow (0%)
- Blue (90%)



- Cyan (49%)
- Magenta (100%)
- Yellow (0%)
- Black (10%)






















- Cyan (54%)
- Magenta (100%)
- Yellow (10%)

Brightness & Saturation Gradients

These gradients show how the RYB color 117, 0, 230 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 117, 0, 230 by changing the saturation by 10% instead.

 117, 0, 230	 117, 0, 230
 255, 255, 255	 84, 0, 201
 179, 79, 255	 46, 0, 173
 210, 107, 255	 0, 0, 145
 242, 136, 255	 0, 0, 118
 255, 164, 255	 0, 0, 92
 255, 193, 255	 0, 6, 68
 255, 222, 255	 0, 3, 45
 255, 252, 255	 0, 1, 23
	 0, 0, 0

 117, 0, 230

 128, 23, 230


 140, 46, 230


 151, 69, 230

 162, 92, 230

 173, 115, 230

 185, 138, 230

 196, 161, 230

 207, 184, 230

 219, 207, 230

Harmonies

Analogous

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



0, 68, 255



117, 0, 230



213, 0, 147

Triad

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



117, 0, 230



150, 95, 0



0, 60, 124

Complementary

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



117, 0, 230



0, 230, 117

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, 98, 114



117, 0, 230



0, 95, 23

Square

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



117, 0, 230



206, 0, 0



0, 109, 109



0, 76, 213

Rectangle

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



117, 0, 230



232, 0, 86



0, 109, 109



0, 64, 115

Sweetspot

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



117, 0, 230



217, 179, 255



0, 77, 230



105, 82, 128



0, 0, 0



128, 128, 128

Same Dimension

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



117, 0, 230



130, 0, 255



230, 0, 230



109, 103, 115



91, 0, 179



26, 0, 51

Inverse Universe

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



230, 0, 113



255, 0, 125



0, 230, 230



115, 103, 109



179, 0, 88



51, 0, 25

Previews

White Background



This preview shows how the RYB color 117, 0, 230 looks on a white background.

Color Contrast Check

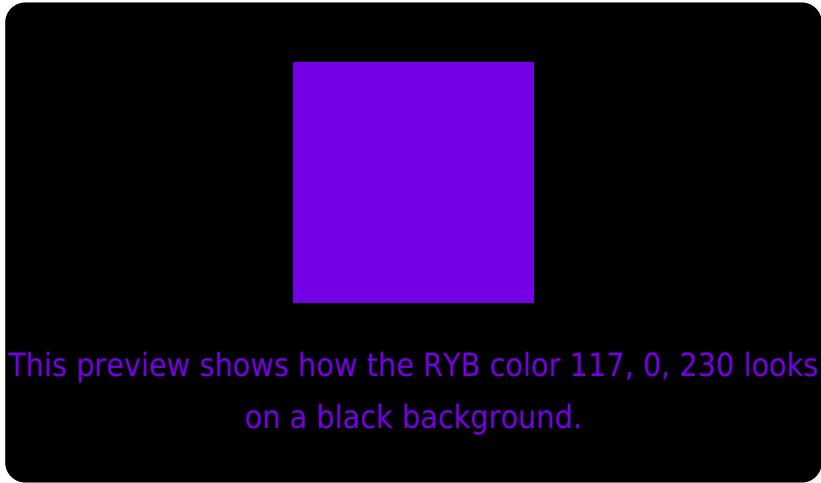
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

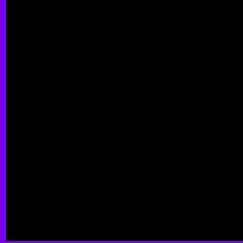
Any Text WCAG AA × Fail

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](#).

RYP 117, 0, 230 Background



This preview shows how black text looks on a background with the RYP color 117, 0, 230.

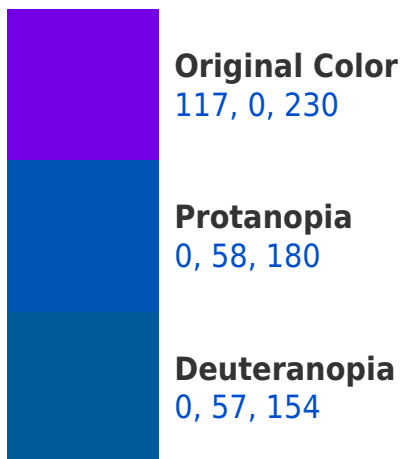


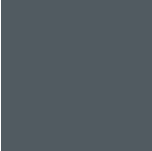
This preview shows how white text looks on a background with the RYP color 117, 0, 230.

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
81, 87, 97

Trichromacy



Original Color

117, 0, 230



Protanomaly

43, 54, 198



Deuteranomaly

43, 57, 182



Tritanomaly

94, 57, 145

Monochromacy



Original Color

117, 0, 230



Achromatopsia

61, 61, 61



Achromatomaly

81, 39, 122

CSS Examples

Text

The CSS property to change the color of the text to RYB 117, 0, 230 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(117, 0, 230)` looks like.

```
.text, #text, p{  
    color:rgb(117, 0, 230)  
}
```

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(117, 0, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 0, 230) }
```

Border

The CSS property to change the border of an element to RYB 117, 0, 230 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(117, 0, 230) }
```

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

```
.border{ border-color:rgb(117, 0, 230) }
```

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

Here you see how a box with a 4 pixel rgb(117, 0, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 0, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 0, 230);  
box-shadow:4px 4px 4px 4px rgb(117, 0,  
230) }
```

Background

The CSS property to change the background color of an element to RYB 117, 0, 230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 0, 230) }
```

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

```
.background{ background-color: rgb(117, 0,  
230) }
```

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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