

# Converting Colors

`RYB(117, 89, 178)`

Have a look what the booklet for  
RYB(117, 89, 178) contains.

<b>RYB(117, 89, 178)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	23
<i><b>Color Blindness Simulation</b></i> .....	26
<i><b>CSS Examples</b></i> .....	29

# Color

**R<sub>Y</sub>B(117, 89, 178)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7559B2
RGB	117, 89, 178
RGB Percent	46%, 35%, 70%
CMY	0.5412, 0.6510, 0.3020
CMYK	0.34, 0.50, 0.00, 0.30
HSL	259°, 37%, 52%
HSV	259°, 50%, 70%
XYZ	18.9444, 14.1410, 43.8505
YIQ	107.5180, -11.8810, 33.6150

# Conversions

## Conversions Part 2

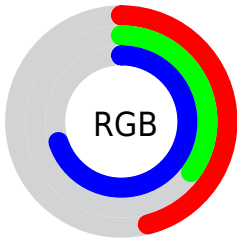
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	117, 89, 178
Decimal	7690674
CIE <sub>Lab</sub>	44.43, 31.57, -43.50
CIE <sub>LCh</sub>	44, 53.750, 305.975
Yxy	14.1410, 0.2462, 0.1838
Android (android.graphics.Color)	4285880754 (0xFF7559B2)
YUV	107.5180, 34.7476, 8.3157
Hunter-Lab	37.6045, 24.1166, -42.8146

# Details

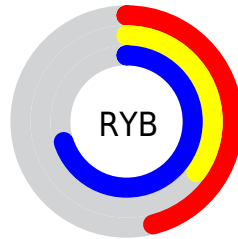
The RYB color **117, 89, 178** is a dark color, and the websafe version is hex **6666CC**. A complement of this color would be **89, 178, 117**, and the grayscale version is **107, 107, 107**.

A 20% lighter version of the original color is **172, 140, 234**, and **64, 42, 125** is the 20% darker color. If you saturate the color by 10%, you get **105, 71, 178**, and if you desaturate by 10%, it is **129, 107, 178**.

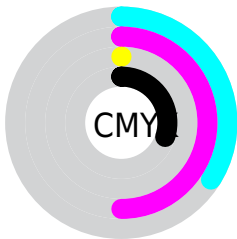
# Distribution



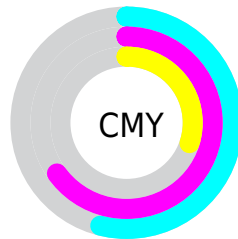
- Red (46%)
- Green (35%)
- Blue (70%)



- Red (46%)
- Yellow (35%)
- Blue (70%)



- Cyan (34%)
- Magenta (50%)
- Yellow (0%)
- Black (30%)



- Cyan (54%)
- Magenta (65%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 117, 89, 178 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, 89, 178 by changing the saturation by 10% instead.





117, 89, 178



117, 89, 178

255, 255, 255



90, 65, 151



172, 140, 234



64, 42, 125



200, 166, 255



37, 20, 99



229, 194, 255



5, 0, 75



255, 222, 255



0, 0, 51



255, 250, 255



0, 2, 29



0, 0, 0



117, 89, 178



117, 89, 178



105, 71, 178



129, 107, 178

■ 93, 53, 178

■ 141, 125, 178

■ 80, 36, 178

■ 154, 142, 178

■ 68, 18, 178

■ 166, 160, 178

■ 56, 0, 178

■ 178, 178, 178

■ 178, 196, 184

■ 178, 214, 190

■ 178, 231, 194

■ 178, 249, 200

# Harmonies

## Analogous

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



0, 70, 195



117, 89, 178



165, 68, 142

# Triad

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



117, 89, 178



140, 155, 15



0, 66, 126

# Complementary

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



117, 89, 178



89, 178, 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, 80, 123



117, 89, 178



13, 118, 0

# Square

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



117, 89, 178



179, 72, 55



23, 117, 69



0, 70, 157

# Rectangle

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



117, 89, 178



181, 59, 113



23, 117, 69



0, 70, 125



# Sweetspot

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



117, 89, 178



208, 197, 232



89, 126, 178



103, 96, 117



245, 245, 245



117, 117, 117



# Same Dimension

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



117, 89, 178



137, 93, 232



160, 89, 178



83, 80, 89



48, 0, 153



8, 0, 26



# Inverse Universe

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



178, 89, 150



232, 93, 188



89, 178, 160



89, 80, 86



153, 0, 105

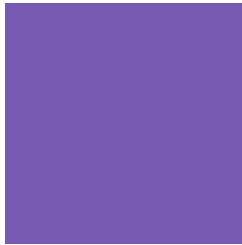


26, 0, 17



# Previews

## White Background



This preview shows how the RYB color 117, 89, 178 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 117, 89, 178 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 117, 89, 178 Background**



This preview shows how black text looks on a background with the RYB color 117, 89, 178.

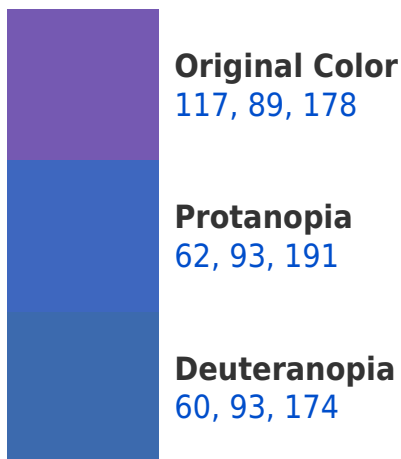



This preview shows how white text looks on a background with the RYB color 117, 89, 178.

# 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**  
103, 105, 113

# Trichromacy



**Original Color**

117, 89, 178

**Protanomaly**

82, 95, 186

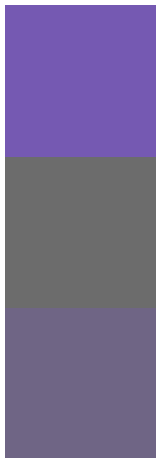
**Deuteranomaly**

81, 97, 175

**Tritanomaly**

108, 99, 137

# Monochromacy



**Original Color**

117, 89, 178

**Achromatopsia**

108, 108, 108

**Achromatomaly**

111, 101, 133

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 117, 89, 178 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, 89, 178)` looks like.

```
.text, #text, p{  
    color:rgb(117, 89, 178)  
}
```

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, 89, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 89, 178) }
```

## Border

The CSS property to change the border of an element to RYB 117, 89, 178 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, 89, 178) }
```

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

```
.border{ border-color:rgb(117, 89, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 89, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 89, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 89, 178);  
box-shadow:4px 4px 4px 4px rgb(117, 89,  
178) }
```

# Background

The CSS property to change the background color of an element to RYB 117, 89, 178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 89, 178) }
```

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

```
.background{ background-color: rgb(117, 89,  
178) }
```

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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