

# Converting Colors

`RYB(119, 99, 157)`

Have a look what the booklet for  
RYB(119, 99, 157) contains.

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# Color

**R<sub>Y</sub>B(119, 99, 157)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	77639D
RGB	119, 99, 157
RGB Percent	47%, 39%, 62%
CMY	0.5333, 0.6118, 0.3843
CMYK	0.24, 0.37, 0.00, 0.38
HSL	261°, 23%, 50%
HSV	261°, 37%, 62%
XYZ	18.1554, 15.2799, 33.8907
YIQ	111.5920, -6.6980, 22.2780

# Conversions

## Conversions Part 2

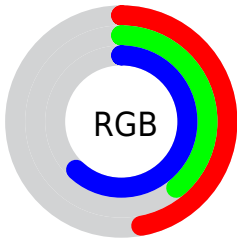
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	119, 99, 157
Decimal	7824285
CIE <sub>Lab</sub>	46.02, 20.65, -28.62
CIE <sub>LCh</sub>	46, 35.290, 305.811
Yxy	15.2799, 0.2697, 0.2270
Android (android.graphics.Color)	4286014365 (0xFF77639D)
YUV	111.5920, 22.3861, 6.4968
Hunter-Lab	39.0896, 14.4987, -24.0418

# Details

The RYB color **119, 99, 157** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **99, 157, 119**, and the grayscale version is **111, 111, 111**.

A 20% lighter version of the original color is **172, 150, 212**, and **69, 52, 105** is the 20% darker color. If you saturate the color by 10%, you get **109, 83, 157**, and if you desaturate by 10%, it is **129, 115, 157**.

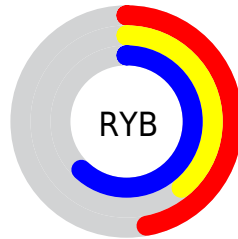
# Distribution



Red (47%)

Green (39%)

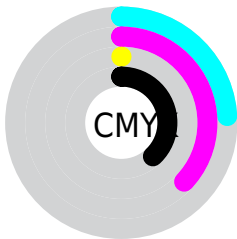
Blue (62%)



Red (47%)

Yellow (39%)

Blue (62%)

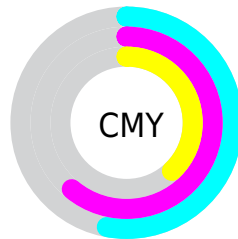


Cyan (24%)

Magenta (37%)

Yellow (0%)

Black (38%)



Cyan (53%)

Magenta (61%)

Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 119, 99, 157 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 119, 99, 157 by changing the saturation by 10% instead.





119, 99, 157



119, 99, 157

255, 255, 255



94, 75, 131



172, 150, 212



69, 52, 105



200, 177, 240



45, 31, 81



228, 204, 255



21, 9, 58



255, 232, 255



0, 0, 36



0, 0, 11



0, 0, 0



119, 99, 157



119, 99, 157



109, 83, 157



129, 115, 157

98, 68, 157

140, 130, 157

88, 52, 157

150, 146, 157

78, 36, 157

157, 162, 159

68, 20, 157

157, 178, 165

57, 5, 157

157, 193, 169

54, 0, 157

157, 209, 175

157, 225, 181

157, 240, 185

# Harmonies

## Analogous

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



70, 98, 168



119, 99, 157



150, 89, 134

# Triad

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



119, 99, 157



146, 140, 55



0, 65, 124

# Complementary

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



119, 99, 157



99, 157, 119

# 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.



50, 99, 122



119, 99, 157



62, 121, 48

# Square

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



119, 99, 157



162, 91, 76



59, 117, 86



0, 66, 143

# Rectangle

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



119, 99, 157



161, 85, 114



59, 117, 86



0, 67, 124



# Sweetspot

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



119, 99, 157



189, 182, 204



99, 122, 157



93, 89, 102



230, 230, 230



102, 102, 102



# Same Dimension

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



119, 99, 157



145, 114, 204



147, 99, 157



74, 71, 79



49, 0, 143



5, 0, 15



# Inverse Universe

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



157, 99, 137



204, 114, 173



99, 157, 147



79, 71, 76



143, 0, 94

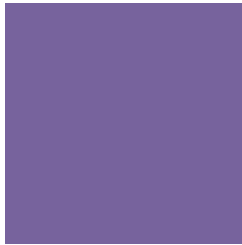


15, 0, 10



# Previews

## White Background



This preview shows how the RYB color 119, 99, 157 looks on a white background.

## Color Contrast Check

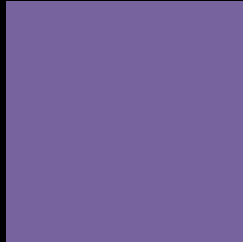
Large Text (above 18pt) WCAG AA ✓ Pass

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 119, 99, 157 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

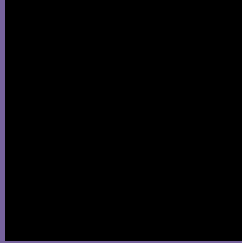
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## **R Y B 119, 99, 157 Background**



This preview shows how black text looks on a background with the RYB color 119, 99, 157.



This preview shows how white text looks on a background with the RYB color 119, 99, 157.

# 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**

119, 99, 157

**Protanopia**

90, 104, 164

**Deuteranopia**

92, 105, 155



**Tritanopia**  
111, 107, 116

# Trichromacy



**Original Color**

119, 99, 157

**Protanomaly**

101, 104, 161

**Deuteranomaly**

102, 105, 156

**Tritanomaly**

114, 104, 131

# Monochromacy



**Original Color**

119, 99, 157

**Achromatopsia**

112, 112, 112

**Achromatomaly**

115, 107, 128

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 119, 99, 157 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(119, 99, 157)` looks like.

```
.text, #text, p{  
    color:rgb(119, 99, 157)  
}
```

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(119, 99, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 99, 157) }
```

## Border

The CSS property to change the border of an element to RYB 119, 99, 157 is called "border". The border property can be set on classes, ids or directly on the HTML element.

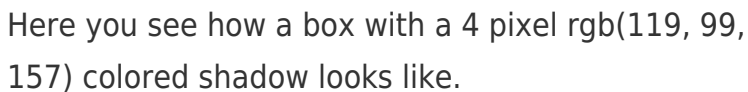
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(119, 99, 157) }
```

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

```
.border{ border-color:rgb(119, 99, 157) }
```

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



Here you see how a box with a 4 pixel `rgb(119, 99, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(119, 99, 157); -webkit-box-shadow:4px 4px 4px 4px rgb(119, 99, 157); box-shadow:4px 4px 4px 4px rgb(119, 99, 157) }
```

# Background

The CSS property to change the background color of an element to RYB 119, 99, 157 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 99, 157) }
```

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

```
.background{ background-color: rgb(119, 99,  
157) }
```

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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