

# Converting Colors

`RYB(157, 128, 220)`

Have a look what the booklet for RYB(157, 128, 220) contains.

<b>RYB(157, 128, 220)</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(157, 128, 220)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9D80DC
RGB	157, 128, 220
RGB Percent	62%, 50%, 86%
CMY	0.3843, 0.4980, 0.1373
CMYK	0.29, 0.42, 0.00, 0.14
HSL	259°, 57%, 68%
HSV	259°, 42%, 86%
XYZ	34.5421, 27.7737, 71.2505
YIQ	147.1590, -12.2480, 34.7600

# Conversions

## Conversions Part 2

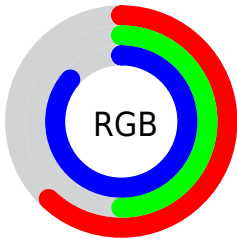
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	157, 128, 220
Decimal	10322140
CIE <sub>Lab</sub>	59.68, 30.59, -43.15
CIE <sub>LCh</sub>	60, 52.890, 305.335
Yxy	27.7737, 0.2586, 0.2079
Android (android.graphics.Color)	4288512220 (0xFF9D80DC)
YUV	147.1590, 35.9106, 8.6306
Hunter-Lab	52.7008, 24.7691, -43.2683

# Details

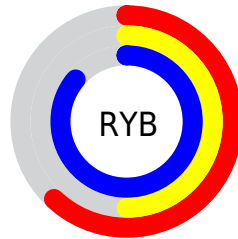
The RYB color **157, 128, 220** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **128, 220, 157**, and the grayscale version is **147, 147, 147**.

A 20% lighter version of the original color is **213, 181, 255**, and **103, 78, 164** is the 20% darker color. If you saturate the color by 10%, you get **142, 106, 220**, and if you desaturate by 10%, it is **172, 150, 220**.

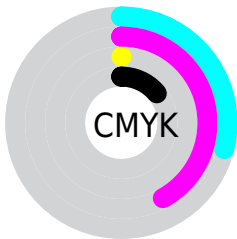
# Distribution



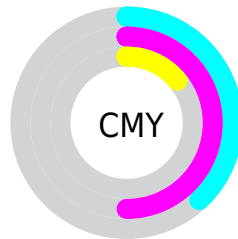
- Red (62%)
- Green (50%)
- Blue (86%)



- Red (62%)
- Yellow (50%)
- Blue (86%)



- Cyan (29%)
- Magenta (42%)
- Yellow (0%)
- Black (14%)




- Cyan (38%)
- Magenta (50%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 157, 128, 220 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 157, 128, 220 by changing the saturation by 10% instead.



 157, 128, 220


255, 255, 255


 213, 181, 255

 242, 209, 255

 255, 237, 255


 157, 128, 220

 130, 103, 192

 103, 78, 164

 77, 55, 138

 50, 33, 112


 21, 11, 87

 0, 0, 63

 0, 3, 40


 0, 1, 18

 0, 0, 0

 157, 128, 220

 157, 128, 220

 142, 106, 220

 172, 150, 220

 127, 84, 220

 187, 172, 220

 112, 62, 220

 202, 194, 220

 97, 40, 220

 217, 216, 220

 82, 18, 220

 220, 238, 226

 69, 0, 220

 220, 255, 228

 220, 255, 220

# Harmonies

## Analogous

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



64, 120, 236



157, 128, 220



207, 110, 183

# Triad

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



157, 128, 220



200, 192, 58



0, 88, 167

# Complementary

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



157, 128, 220



128, 220, 157

# 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.



35, 119, 164



157, 128, 220



64, 161, 44

# Square

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



157, 128, 220



224, 113, 92



63, 156, 106



0, 90, 196

# Rectangle

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



157, 128, 220



224, 102, 153



63, 156, 106



0, 92, 166



# Sweetspot

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



157, 128, 220



232, 222, 255



128, 166, 220



114, 107, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



157, 128, 220



168, 128, 255



202, 128, 220



102, 99, 110



55, 0, 173



14, 0, 46



# Inverse Universe

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



220, 128, 191



255, 128, 215



128, 220, 202



110, 99, 106



173, 0, 119

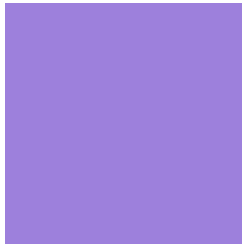


46, 0, 31



# Previews

## White Background



This preview shows how the RYB color 157, 128, 220 looks on a white background.

## Color Contrast Check

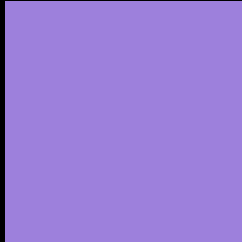
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the RYB color 157, 128, 220 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

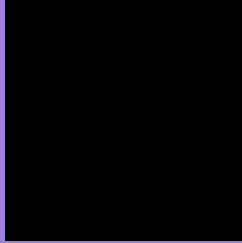
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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



## **RYB 157, 128, 220 Background**



This preview shows how black text looks on a background with the RYB color 157, 128, 220.

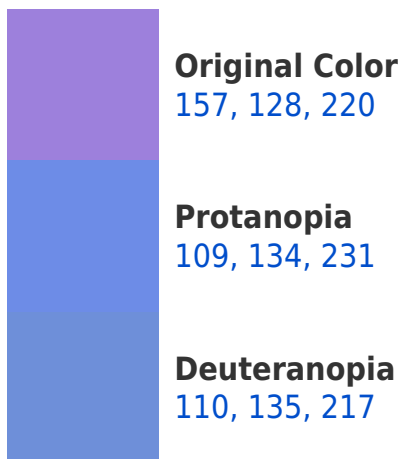


This preview shows how white text looks on a background with the RYB color 157, 128, 220.

# 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

144, 142, 154

# Trichromacy



**Original Color**  
157, 128, 220

**Protanomaly**  
126, 135, 227

**Deuteranomaly**  
127, 137, 218

**Tritanomaly**  
149, 137, 178

# Monochromacy



**Original Color**  
157, 128, 220

**Achromatopsia**  
147, 147, 147

**Achromatomaly**  
151, 140, 174

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 157, 128, 220 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(157, 128, 220)` looks like.

```
.text, #text, p{  
    color:rgb(157, 128, 220)  
}
```

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(157, 128, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 128, 220) }
```

## Border

The CSS property to change the border of an element to RYB 157, 128, 220 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(157, 128, 220) }
```

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

```
.border{ border-color:rgb(157, 128, 220) }
```

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

Here you see how a box with a 4 pixel rgb(157, 128, 220) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 128, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 128, 220);  
box-shadow:4px 4px 4px 4px rgb(157, 128,  
220) }
```

# Background

The CSS property to change the background color of an element to RYB 157, 128, 220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 128, 220) }
```

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

```
.background{ background-color: rgb(157,  
128, 220) }
```

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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