

# Converting Colors

`RYB(159, 120, 164)`

Have a look what the booklet for  
RYB(159, 120, 164) contains.

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# Color

**R<sub>Y</sub>B(159, 120, 164)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9F78A4
RGB	159, 120, 164
RGB Percent	62%, 47%, 64%
CMY	0.3765, 0.5294, 0.3569
CMYK	0.03, 0.27, 0.00, 0.36
HSL	293°, 19%, 56%
HSV	293°, 27%, 64%
XYZ	27.7154, 23.4842, 38.1941
YIQ	136.6770, 9.1200, 21.9520

# Conversions

## Conversions Part 2

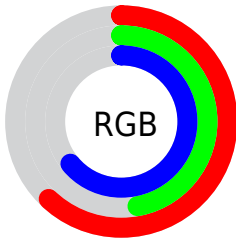
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	159, 120, 164
Decimal	10451108
CIE <sub>Lab</sub>	55.57, 23.08, -17.66
CIE <sub>LCh</sub>	56, 29.061, 322.581
Y <sub>xy</sub>	23.4842, 0.3100, 0.2627
Android (android.graphics.Color)	4288641188 (0xFF9F78A4)
YUV	136.6770, 13.4702, 19.5773
Hunter-Lab	48.4605, 17.2813, -12.8070

# Details

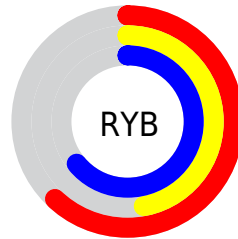
The RYB color **159, 120, 164** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **120, 164, 159**, and the grayscale version is **137, 137, 137**.

A 20% lighter version of the original color is **214, 173, 219**, and **107, 71, 112** is the 20% darker color. If you saturate the color by 10%, you get **157, 104, 164**, and if you desaturate by 10%, it is **161, 136, 164**.

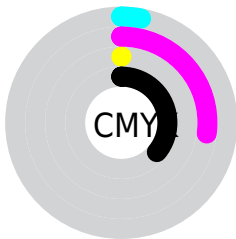
# Distribution



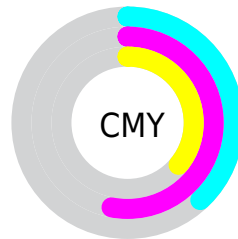
- Red (62%)
- Green (47%)
- Blue (64%)



- Red (62%)
- Yellow (47%)
- Blue (64%)



- Cyan (3%)
- Magenta (27%)
- Yellow (0%)
- Black (36%)



- Cyan (38%)
- Magenta (53%)
- Yellow (36%)

# Brightness & Saturation Gradients


These gradients show how the RYB color 159, 120, 164 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 159, 120, 164 by changing the saturation by 10% instead.



 159, 120, 164

255, 255, 255

 214, 173, 219

 243, 200, 248

 255, 228, 255

 159, 120, 164

 133, 95, 138

 107, 71, 112

 82, 48, 88

 58, 26, 64

 36, 3, 42


 0, 0, 21

 0, 0, 0

 159, 120, 164


 157, 104, 164

 159, 120, 164

 161, 136, 164

 155, 87, 164


 163, 153, 164

 153, 71, 164


 164, 169, 168

 152, 54, 164

 164, 186, 184

 150, 38, 164

 164, 202, 198

 148, 22, 164

 164, 218, 212

 146, 5, 164

 164, 235, 227

 145, 0, 164

 164, 251, 241

 164, 255, 243

# Harmonies

## Analogous

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



127, 129, 180



159, 120, 164



178, 114, 140

# Triad

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



159, 120, 164



126, 156, 83



43, 96, 152

# Complementary

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



159, 120, 164



120, 164, 159

# 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.



70, 114, 146



159, 120, 164



86, 137, 92

# Square

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



159, 120, 164



174, 135, 94



102, 143, 143



50, 103, 172

# Rectangle

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



159, 120, 164



183, 114, 123



102, 143, 143



50, 100, 147



# Sweetspot

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



159, 120, 164



212, 197, 214



120, 124, 164



106, 96, 107



235, 235, 235



107, 107, 107



# Same Dimension

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



159, 120, 164



206, 146, 214



164, 120, 147



81, 73, 82



129, 0, 145



16, 0, 18



# Inverse Universe

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



164, 120, 125



214, 146, 153



120, 152, 164



82, 73, 74



145, 0, 17



18, 0, 2



# Previews

## White Background



This preview shows how the RYB color 159, 120, 164 looks on a white background.

## Color Contrast Check

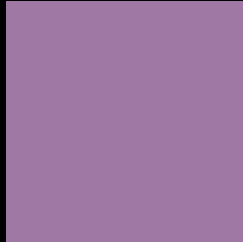
Large Text (above 18pt) WCAG AA ✓ Pass

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 159, 120, 164 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

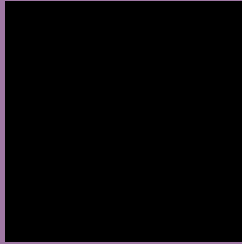
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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



## RYB 159, 120, 164 Background



This preview shows how black text looks on a background with the RYB color 159, 120, 164.



This preview shows how white text looks on a background with the RYB color 159, 120, 164.

# 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**  
159, 120, 164

**Protanopia**  
123, 131, 172

**Deuteranopia**  
132, 130, 162



# Tritanopia

155, 125, 135

# Trichromacy



**Original Color**  
159, 120, 164

**Protanomaly**  
136, 128, 169

**Deuteranomaly**  
142, 126, 163

**Tritanomaly**  
156, 123, 146

# Monochromacy



**Original Color**  
159, 120, 164

**Achromatopsia**  
137, 137, 137

**Achromatomaly**  
145, 131, 147

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 159, 120, 164 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(159, 120, 164) looks like.

```
.text, #text, p{  
    color:rgb(159, 120, 164)  
}
```

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(159, 120, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 120, 164) }
```

## Border

The CSS property to change the border of an element to RYB 159, 120, 164 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(159, 120, 164) }
```

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

```
.border{ border-color:rgb(159, 120, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 120, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 120, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 120, 164);  
box-shadow:4px 4px 4px 4px rgb(159, 120,  
164) }
```

# Background

The CSS property to change the background color of an element to RYB 159, 120, 164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 120, 164) }
```

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

```
.background{ background-color: rgb(159,  
120, 164) }
```

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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