

# Converting Colors

`RYB(168, 126, 178)`

Have a look what the booklet for  
RYB(168, 126, 178) contains.

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# Color

**R<sub>Y</sub>B(168, 126, 178)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A87EB2
RGB	168, 126, 178
RGB Percent	66%, 49%, 70%
CMY	0.3412, 0.5059, 0.3020
CMYK	0.06, 0.29, 0.00, 0.30
HSL	288°, 25%, 60%
HSV	288°, 29%, 70%
XYZ	31.6452, 26.4609, 45.5591
YIQ	144.4860, 8.3400, 25.0760

# Conversions

## Conversions Part 2

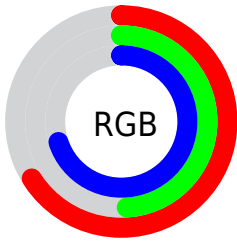
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	168, 126, 178
Decimal	11042482
CIE <sub>Lab</sub>	58.47, 25.55, -21.19
CIE <sub>LCh</sub>	58, 33.190, 320.324
Yxy	26.4609, 0.3053, 0.2553
Android (android.graphics.Color)	4289232562 (0xFFA87EB2)
YUV	144.4860, 16.5224, 20.6218
Hunter-Lab	51.4402, 19.7902, -16.5033

# Details

The RYB color **168, 126, 178** is a light color, and the websafe version is hex **996699**. A complement of this color would be **126, 178, 168**, and the grayscale version is **144, 144, 144**.

A 20% lighter version of the original color is **224, 179, 234**, and **115, 76, 125** is the 20% darker color. If you saturate the color by 10%, you get **165, 108, 178**, and if you desaturate by 10%, it is **171, 144, 178**.

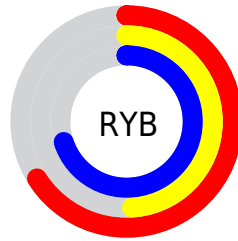
# Distribution



Red (66%)

Green (49%)

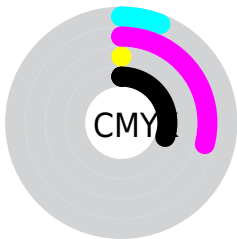
Blue (70%)



Red (66%)

Yellow (49%)

Blue (70%)

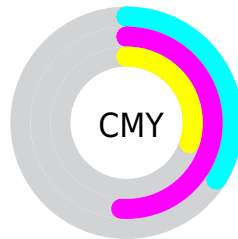


Cyan (6%)

Magenta (29%)

Yellow (0%)

Black (30%)



Cyan (34%)

Magenta (51%)

Yellow (30%)

# Brightness & Saturation Gradients


These gradients show how the RYB color 168, 126, 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 168, 126, 178 by changing the saturation by 10% instead.



 168, 126, 178


255, 255, 255


 224, 179, 234


 253, 207, 255

 255, 235, 255

 168, 126, 178

 141, 101, 151

 115, 76, 125

 90, 53, 100

 66, 30, 76

 43, 8, 53

 23, 0, 32

 0, 0, 3

 0, 0, 0

 168, 126, 178

 168, 126, 178

165, 108, 178

171, 144, 178

161, 90, 178

175, 162, 178

158, 73, 178

178, 179, 179

154, 55, 178

178, 197, 193

151, 37, 178

178, 215, 208

147, 19, 178

178, 233, 222

144, 1, 178

178, 251, 237

144, 0, 178

178, 255, 238

178, 255, 234

# Harmonies

## Analogous

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



130, 136, 195



168, 126, 178



191, 119, 151

# Triad

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



168, 126, 178



134, 168, 83



21, 89, 160

# Complementary

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



168, 126, 178



126, 178, 168

# 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.



68, 120, 156



168, 126, 178



85, 145, 90

# Square

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



168, 126, 178



189, 139, 97



102, 152, 148



25, 96, 185

# Rectangle

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



168, 126, 178



197, 118, 132



102, 152, 148



38, 99, 156



# Sweetspot

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



168, 126, 178



228, 211, 232



126, 134, 178



115, 104, 117



245, 245, 245



117, 117, 117



# Same Dimension

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



168, 126, 178



216, 151, 232



178, 126, 162



88, 80, 89



124, 0, 153



21, 0, 26



# Inverse Universe

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



178, 126, 136



232, 151, 166



126, 166, 178



89, 80, 82



153, 0, 29

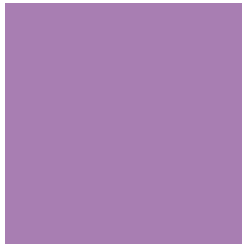


26, 0, 5



# Previews

## White Background



This preview shows how the RYB color 168, 126, 178 looks on a white background.

## Color Contrast Check

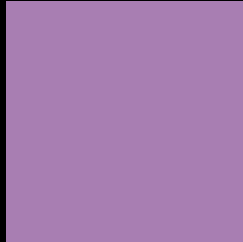
Large Text (above 18pt) WCAG AA ✓ Pass

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 168, 126, 178 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

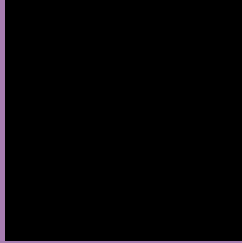
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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



## RYB 168, 126, 178 Background



This preview shows how black text looks on a background with the RYB color 168, 126, 178.

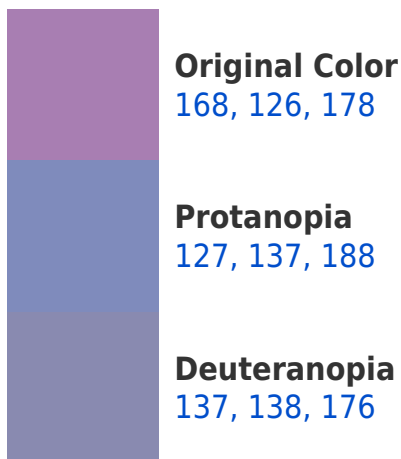


This preview shows how white text looks on a background with the RYB color 168, 126, 178.

# 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**  
163, 133, 143

# Trichromacy



**Original Color**  
168, 126, 178

**Protanomaly**  
142, 134, 184

**Deuteranomaly**  
148, 134, 177

**Tritanomaly**  
165, 130, 156

# Monochromacy



**Original Color**  
168, 126, 178

**Achromatopsia**  
144, 144, 144

**Achromatomaly**  
153, 137, 156

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 168, 126, 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(168, 126, 178)` looks like.

```
.text, #text, p{  
    color:rgb(168, 126, 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(168, 126, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 126, 178) }
```

## Border

The CSS property to change the border of an element to RYB 168, 126, 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(168, 126, 178) }
```

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

```
.border{ border-color:rgb(168, 126, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 126, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 126, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 126, 178);  
box-shadow:4px 4px 4px 4px rgb(168, 126,  
178) }
```

# Background

The CSS property to change the background color of an element to RYB 168, 126, 178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 126, 178) }
```

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

```
.background{ background-color: rgb(168,  
126, 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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