

# Converting Colors

`RYB(170, 135, 168)`

Have a look what the booklet for  
RYB(170, 135, 168) contains.

<b>RYB(170, 135, 168)</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(170, 135, 168)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA87A8
RGB	170, 135, 168
RGB Percent	67%, 53%, 66%
CMY	0.3333, 0.4706, 0.3412
CMYK	0.00, 0.21, 0.01, 0.33
HSL	303°, 17%, 60%
HSV	303°, 21%, 67%
XYZ	32.3094, 28.7011, 40.8828
YIQ	149.2270, 10.2670, 17.6830

# Conversions

## Conversions Part 2

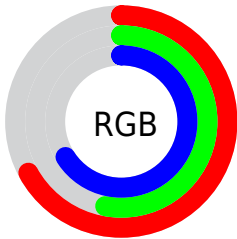
Format	Color
<a href="#">RYB</a>	<a href="#">170, 135, 168</a>
Decimal	<a href="#">11175848</a>
CIELab	<a href="#">60.52, 19.14, -12.36</a>
CIELCh	<a href="#">61, 22.783, 327.145</a>
Yxy	<a href="#">28.7011, 0.3171, 0.2817</a>
Android (android.graphics.Color)	<a href="#">4289365928 (0xFFAA87A8)</a>
YUV	<a href="#">149.2270, 9.2551, 18.2179</a>
Hunter-Lab	<a href="#">53.5735, 13.8974, -7.7437</a>

# Details

The RYB color **170, 135, 168** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **135, 168, 170**, and the grayscale version is **149, 149, 149**.

A 20% lighter version of the original color is **226, 188, 223**, and **117, 85, 116** is the 20% darker color. If you saturate the color by 10%, you get **170, 118, 167**, and if you desaturate by 10%, it is **170, 152, 169**.

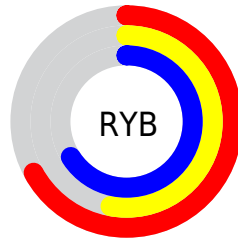
# Distribution



Red (67%)

Green (53%)

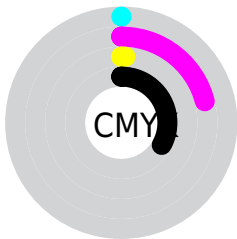
Blue (66%)



Red (67%)

Yellow (53%)

Blue (66%)

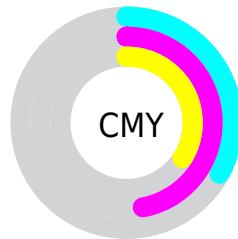


Cyan (0%)

Magenta (21%)

Yellow (1%)

Black (33%)



Cyan (33%)

Magenta (47%)

Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 170, 135, 168 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 170, 135, 168 by changing the saturation by 10% instead.



 170, 135, 168

255, 255, 255

 226, 188, 223

 254, 216, 252


 255, 245, 255


 170, 135, 168

 143, 110, 142

 117, 85, 116


 92, 61, 91

 68, 39, 68

 46, 18, 45

 28, 0, 25

 0, 0, 0

 170, 135, 168

 170, 118, 167

 170, 135, 168

 170, 152, 169

170, 101, 166

170, 169, 170

170, 84, 165

170, 185, 186

170, 67, 164

170, 201, 203

170, 50, 163

170, 217, 220

170, 33, 162

170, 233, 237

170, 16, 161

170, 249, 254

170, 0, 160

170, 249, 255

170, 249, 255

# Harmonies

## Analogous

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



147, 141, 182



170, 135, 168



184, 131, 149

# Triad

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



170, 135, 168



133, 162, 106



86, 123, 163

# Complementary

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



170, 135, 168



135, 168, 170

# 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.



97, 131, 157



170, 135, 168



110, 150, 119

# Square

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



170, 135, 168



179, 151, 113



118, 150, 155



94, 129, 179

# Rectangle

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



170, 135, 168



187, 132, 135



118, 150, 155



88, 123, 157



# Sweetspot

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



170, 135, 168



222, 209, 221



137, 135, 170



112, 104, 112



240, 240, 240



112, 112, 112



# Same Dimension

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



170, 135, 168



222, 166, 219



170, 135, 151



84, 76, 84



148, 0, 139



20, 0, 19



# Inverse Universe

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



170, 135, 168



222, 166, 219



135, 158, 170



84, 76, 84



148, 0, 139

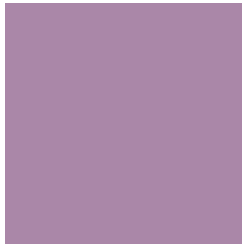


20, 0, 19



# Previews

## White Background



This preview shows how the RYB color 170, 135, 168 looks on a white background.

## Color Contrast Check

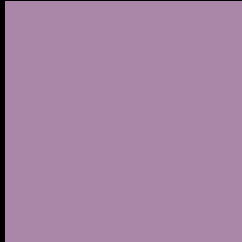
Large Text (above 18pt) WCAG AA ✓ Pass

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 170, 135, 168 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

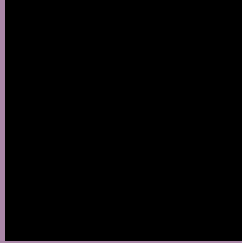
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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



## RYB 170, 135, 168 Background



This preview shows how black text looks on a background with the RYB color 170, 135, 168.



This preview shows how white text looks on a background with the RYB color 170, 135, 168.

# 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**  
170, 135, 168

**Protanopia**  
140, 144, 175

**Deuteranopia**  
151, 142, 167



**Tritanopia**  
167, 138, 149

# Trichromacy



**Original Color**  
170, 135, 168

**Protanomaly**  
151, 141, 172

**Deuteranomaly**  
158, 139, 167

**Tritanomaly**  
168, 137, 156

# Monochromacy



**Original Color**  
170, 135, 168

**Achromatopsia**  
149, 149, 149

**Achromatomaly**  
157, 144, 156

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 170, 135, 168 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(170, 135, 168) looks like.

```
.text, #text, p{  
    color:rgb(170, 135, 168)  
}
```

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(170, 135, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 135, 168) }
```

## Border

The CSS property to change the border of an element to RYB 170, 135, 168 is called "border". The border property can be set on classes, ids or directly on the HTML element.

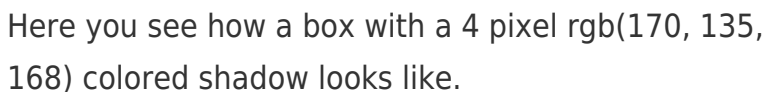
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(170, 135, 168) }
```

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

```
.border{ border-color:rgb(170, 135, 168) }
```

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



Here you see how a box with a 4 pixel `rgb(170, 135, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(170, 135, 168); -webkit-box-shadow:4px 4px 4px 4px rgb(170, 135, 168); box-shadow:4px 4px 4px 4px rgb(170, 135, 168) }
```

# Background

The CSS property to change the background color of an element to RYB 170, 135, 168 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 135, 168) }
```

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

```
.background{ background-color: rgb(170,  
135, 168) }
```

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](#).



Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor