

# Converting Colors

`RYB(128, 204, 224)`

Have a look what the booklet for  
RYB(128, 204, 224) contains.

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# Color

**R<sub>Y</sub>B(128, 204, 224)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80E099
RGB	128, 224, 153
RGB Percent	50%, 88%, 60%
CMY	0.4980, 0.1216, 0.3990
CMYK	0.43, 0.00, 0.32, 0.12
HSL	136°, 61%, 69%
HSV	136°, 43%, 88%
XYZ	41.3293, 60.2091, 39.6943
YIQ	187.2020, -34.4250, -42.4330

# Conversions

## Conversions Part 2

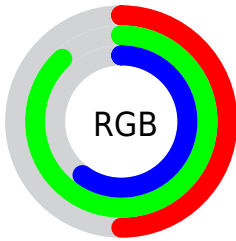
<b>Format</b>	<b>Color</b>
<b>RYB</b>	128, 204, 224
Decimal	8446105
CIELab	81.95, -43.41, 26.01
CIELCh	82, 50.601, 149.070
Yxy	60.2091, 0.2926, 0.4263
Android (android.graphics.Color)	4286636185 (0xFF80E099)
YUV	187.2020, -16.8616, -51.9202
Hunter-Lab	77.5945, -40.7157, 23.9857

# Details

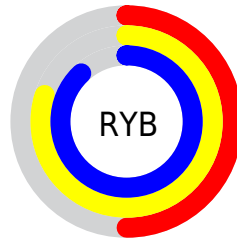
The RYB color **128, 204, 224** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **224, 128, 199**, and the grayscale version is **187, 187, 187**.

A 20% lighter version of the original color is **185, 238, 255**, and **72, 146, 168** is the 20% darker color. If you saturate the color by 10%, you get **106, 199, 224**, and if you desaturate by 10%, it is **150, 208, 224**.

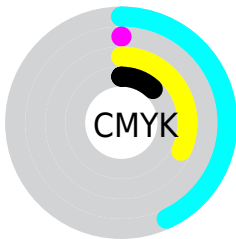
# Distribution



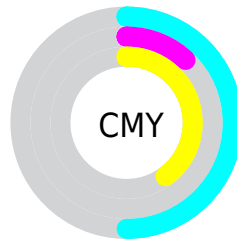
- Red (50%)
- Green (88%)
- Blue (60%)



- Red (50%)
- Yellow (80%)
- Blue (88%)



- Cyan (43%)
- Magenta (0%)
- Yellow (32%)
- Black (12%)



- Cyan (50%)
- Magenta (12%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 128, 204, 224 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 128, 204, 224 by changing the saturation by 10% instead.



 128, 204, 224


255, 255, 255

 185, 238, 255


 214, 241, 255

 243, 249, 255

 128, 204, 224

 100, 175, 196

 72, 145, 168


 41, 115, 141

 0, 78, 115

 0, 67, 90

 0, 58, 65


 0, 43, 43

 0, 13, 13


 0, 0, 0

 128, 204, 224


 128, 204, 224

 106, 199, 224


 150, 208, 224

 83, 195, 224


 173, 214, 224

 61, 190, 224

 195, 218, 224

 38, 185, 224

 218, 223, 224

 16, 181, 224

 240, 224, 236

 0, 177, 224

 255, 224, 252

 255, 224, 255

# Harmonies

## Analogous

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



118, 215, 147



128, 204, 224



35, 139, 228

# Triad

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



128, 204, 224



124, 176, 255



255, 170, 160

# Complementary

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



128, 204, 224



224, 128, 199

# 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.



255, 165, 207



128, 204, 224



206, 192, 255

# Square

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



128, 204, 224



0, 118, 255



255, 175, 253



255, 236, 123

# Rectangle

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



128, 204, 224



0, 115, 233



255, 175, 253



255, 167, 175

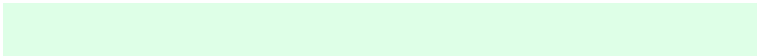


# Sweetspot

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



128, 204, 224



222, 248, 255



128, 224, 152



107, 124, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



128, 204, 224



125, 228, 255



128, 183, 224



101, 110, 112



0, 140, 176



0, 38, 48



# Inverse Universe

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



224, 128, 199



255, 125, 221



224, 128, 152



112, 101, 109



176, 0, 130

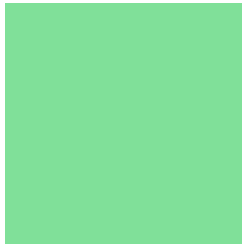


48, 0, 36



# Previews

## White Background



This preview shows how the RYB color 128, 204, 224 looks on a white background.

## Color Contrast Check

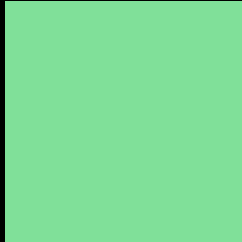
Large Text (above 18pt) WCAG AA × Fail

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 128, 204, 224 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 ✓ Pass

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



## RYB 128, 204, 224 Background



This preview shows how black text looks on a background with the RYB color 128, 204, 224.

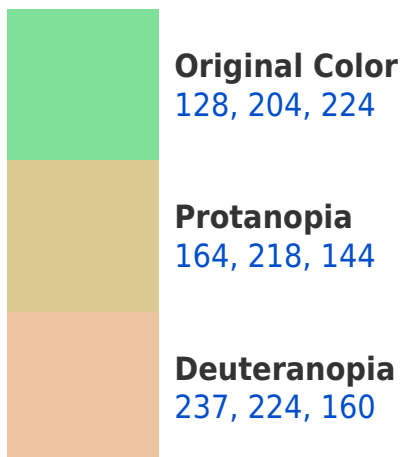


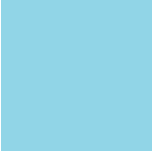
This preview shows how white text looks on a background with the RYB color 128, 204, 224.

# 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





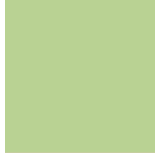
**Tritanopia**  
145, 183, 231

# Trichromacy



**Original Color**

128, 204, 224



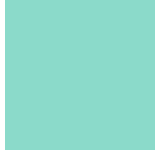
**Protanomaly**

147, 210, 172



**Deuteranomaly**

158, 206, 167



**Tritanomaly**

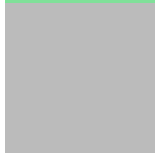
139, 183, 218

# Monochromacy



**Original Color**

128, 204, 224



**Achromatopsia**

187, 187, 187



**Achromatomaly**

166, 193, 200

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 128, 204, 224 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(128, 224, 153)` looks like.

```
.text, #text, p{  
    color:rgb(128, 224, 153)  
}
```

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(128, 224, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 224, 153) }
```

## Border

The CSS property to change the border of an element to RYB 128, 204, 224 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(128, 224, 153) }
```

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

```
.border{ border-color:rgb(128, 224, 153) }
```

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

Here you see how a box with a 4 pixel rgb(128, 224, 153) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 224, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 224, 153);  
box-shadow:4px 4px 4px 4px rgb(128, 224,  
153) }
```

# Background

The CSS property to change the background color of an element to RYB 128, 204, 224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 224, 153) }
```

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

```
.background{ background-color: rgb(128,  
224, 153) }
```

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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