

# Converting Colors

`RYB(85, 203, 230)`

Have a look what the booklet for  
RYB(85, 203, 230) contains.

<b>RYB(85, 203, 230)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	23
<b><i>Color Blindness Simulation</i></b> .....	26
<b><i>CSS Examples</i></b> .....	29

# Color

**$\text{RYB}(85, 203, 230)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	55E676
RGB	85, 230, 118
RGB Percent	33%, 90%, 46%
CMY	0.6667, 0.0980, 0.5366
CMYK	0.63, 0.00, 0.49, 0.10
HSL	134°, 74%, 62%
HSV	134°, 63%, 90%
XYZ	35.3237, 59.8372, 26.8830
YIQ	173.8770, -50.4680, -65.5720

# Conversions

## Conversions Part 2

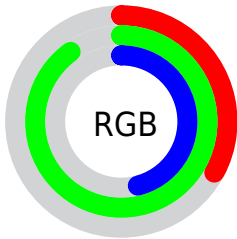
<b>Format</b>	<b>Color</b>
<b>RYB</b>	85, 203, 230
Decimal	5629558
CIELab	81.75, -61.85, 43.06
CIELCh	82, 75.366, 145.152
Yxy	59.8372, 0.2894, 0.4903
Android (android.graphics.Color)	4283819638 (0xFF55E676)
YUV	173.8770, -27.5474, -77.9451
Hunter-Lab	77.3545, -53.8588, 33.5431

# Details

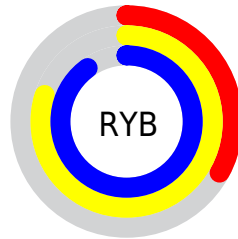
The RYB color **85, 203, 230** is a dark color, and the websafe version is hex **33CC66**. The color can be described as middle muted spring green. A complement of this color would be **230, 85, 197**, and the grayscale version is **174, 174, 174**.

A 20% lighter version of the original color is **148, 235, 255**, and **0, 125, 173** is the 20% darker color. If you saturate the color by 10%, you get **62, 199, 230**, and if you desaturate by 10%, it is **108, 207, 230**.

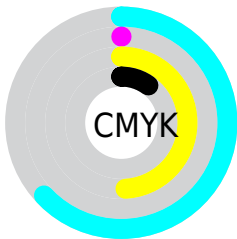
# Distribution



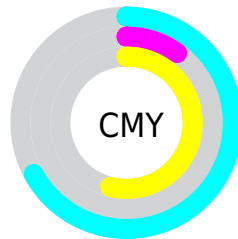
- Red (33%)
- Green (90%)
- Blue (46%)



- Red (33%)
- Yellow (80%)
- Blue (90%)



- Cyan (63%)
- Magenta (0%)
- Yellow (49%)
- Black (10%)










- Cyan (67%)
- Magenta (10%)
- Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 85, 203, 230 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 85, 203, 230 by changing the saturation by 10% instead.




 85, 203, 230	 85, 203, 230
 255, 255, 255	 47, 166, 201
 148, 235, 255	 0, 125, 173
 178, 238, 255	 0, 114, 146
 209, 242, 255	 0, 108, 119
 239, 247, 255	 0, 93, 93
	 0, 68, 68
	 0, 44, 44
	 0, 12, 12
	 0, 0, 0

 85, 203, 230


 85, 203, 230

 62, 199, 230

 108, 207, 230

 39, 194, 230

 131, 211, 230

 16, 190, 230

 154, 216, 230

 0, 187, 230

 177, 220, 230

 200, 224, 230

 223, 228, 230

 246, 230, 242

 255, 230, 255

# Harmonies

## Analogous

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



62, 217, 97



85, 203, 230



0, 131, 236

# Triad

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



85, 203, 230



0, 117, 255



255, 142, 147

# Complementary

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



85, 203, 230



230, 85, 197

# 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, 137, 218



85, 203, 230



183, 189, 255

# Square

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



85, 203, 230



0, 121, 255



255, 159, 255



255, 243, 87

# Rectangle

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



85, 203, 230



0, 119, 238



255, 159, 255



255, 138, 170

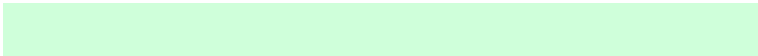


# Sweetspot

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



85, 203, 230



207, 246, 255



85, 230, 116



98, 122, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



85, 203, 230



61, 218, 255



85, 169, 230



103, 113, 115



0, 146, 179



0, 41, 51



# Inverse Universe

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



230, 85, 197



255, 61, 211



230, 85, 126



115, 103, 112



179, 0, 138

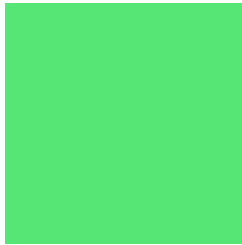


51, 0, 39



# Previews

## White Background



This preview shows how the RYB color 85, 203, 230 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 85, 203, 230 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](#).



## R Y B 85, 203, 230 Background



This preview shows how black text looks on a background with the RYB color 85, 203, 230.

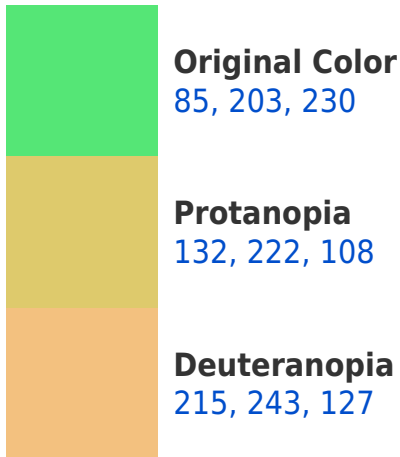


This preview shows how white text looks on a background with the RYB color 85, 203, 230.

# 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**  
118, 172, 235

# Trichromacy



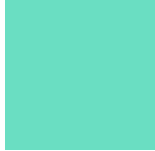
**Original Color**  
85, 203, 230



**Protanomaly**  
112, 212, 152



**Deuteranomaly**  
124, 206, 144



**Tritanomaly**  
106, 172, 222

# Monochromacy



**Original Color**  
85, 203, 230



**Achromatopsia**  
174, 174, 174



**Achromatomaly**  
142, 184, 194

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 85, 203, 230 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(85, 230, 118)` looks like.

```
.text, #text, p{  
    color:rgb(85, 230, 118)  
}
```

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(85, 230, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 230, 118) }
```

## Border

The CSS property to change the border of an element to RYB 85, 203, 230 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(85, 230, 118) }
```

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

```
.border{ border-color:rgb(85, 230, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 230, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 230, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 230, 118);  
box-shadow:4px 4px 4px 4px rgb(85, 230,  
118) }
```

# Background

The CSS property to change the background color of an element to RGB 85, 203, 230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 230, 118) }
```

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

```
.background{ background-color: rgb(85, 230,  
118) }
```

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