

# Converting Colors

`RYB(63, 133, 228)`

Have a look what the booklet for  
RYB(63, 133, 228) contains.

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# Color

**`RYB(63, 133, 228)`**

# Conversions

## Conversions Part 1

Format	Color
Hex	3FB9E4
RGB	63, 185, 228
RGB Percent	25%, 73%, 89%
CMY	0.7529, 0.2762, 0.1059
CMYK	0.72, 0.19, 0.00, 0.11
HSL	196°, 75%, 57%
HSV	196°, 72%, 89%
XYZ	33.3145, 41.1802, 79.5915
YIQ	153.4240, -86.5150, -12.4910

# Conversions

## Conversions Part 2

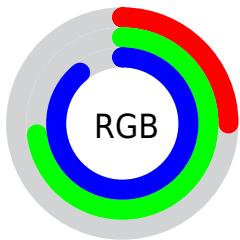
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	63, 133, 228
Decimal	4176356
CIE Lab	70.30, -19.46, -31.37
CIE LCh	70, 36.911, 238.188
Yxy	41.1802, 0.2162, 0.2673
Android (android.graphics.Color)	4282366436 (0xFF3FB9E4)
YUV	153.4240, 36.7660, -79.3018
Hunter-Lab	64.1718, -19.6332, -28.6164

# Details

The RYB color **63, 133, 228** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed azure. A complement of this color would be **228, 121, 63**, and the grayscale version is **153, 153, 153**.

A 20% lighter version of the original color is **131, 189, 255**, and **0, 75, 172** is the 20% darker color. If you saturate the color by 10%, you get **40, 120, 228**, and if you desaturate by 10%, it is **86, 146, 228**.

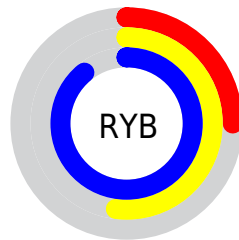
# Distribution



Red (25%)

Green (73%)

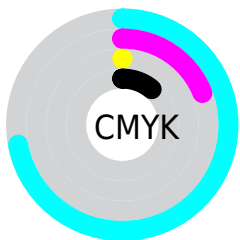
Blue (89%)



Red (25%)

Yellow (52%)

Blue (89%)

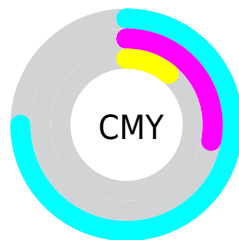


Cyan (72%)

Magenta (19%)

Yellow (0%)

Black (11%)



Cyan (75%)

Magenta (28%)


















Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 63, 133, 228 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 63, 133, 228 by changing the saturation by 10% instead.



 63, 133, 228	 63, 133, 228
 255, 255, 255	 0, 88, 200
 131, 189, 255	 0, 74, 172
 162, 209, 255	 0, 61, 146
 193, 224, 255	 0, 49, 120
 223, 239, 255	 0, 36, 95
 254, 255, 255	 0, 24, 71
	 0, 5, 49
	 0, 1, 27
	 0, 0, 0

■ 63, 133, 228

■ 63, 133, 228

■ 40, 120, 228

■ 86, 146, 228

■ 17, 107, 228

■ 109, 160, 228

■ 0, 97, 228

■ 131, 172, 228

■ 154, 186, 228

■ 177, 199, 228

■ 200, 212, 228

■ 223, 225, 228

■ 245, 235, 228

■ 255, 247, 228

# Harmonies

## Analogous

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



38, 117, 202



63, 133, 228



120, 158, 238

# Triad

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



63, 133, 228



234, 146, 175



112, 179, 130

# Complementary

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



63, 133, 228



228, 121, 63

# 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.



142, 196, 104



63, 133, 228



237, 148, 142

# Square

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



63, 133, 228



212, 152, 208



223, 185, 116



122, 175, 186

# Rectangle

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



63, 133, 228



157, 167, 235



223, 185, 116



107, 176, 109

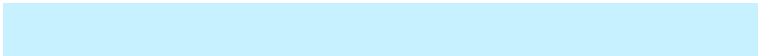


# Sweetspot

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



63, 133, 228



199, 223, 255



63, 195, 228



94, 108, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



63, 133, 228



33, 127, 255



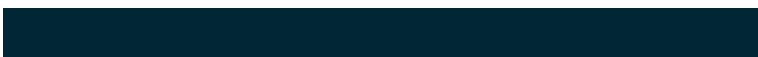
63, 96, 228



103, 108, 115



0, 76, 179



0, 22, 51



# Inverse Universe

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



228, 63, 185



255, 33, 197



118, 228, 63



115, 103, 112



179, 0, 132



51, 0, 38



# Previews

## White Background



This preview shows how the RYB color 63, 133, 228 looks on a white background.

## Color Contrast Check

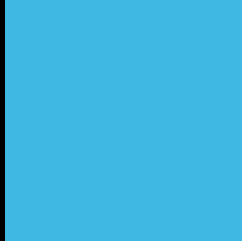
Large Text (above 18pt) WCAG AA × Fail

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 63, 133, 228 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 63, 133, 228 Background



This preview shows how black text looks on a background with the RYB color 63, 133, 228.

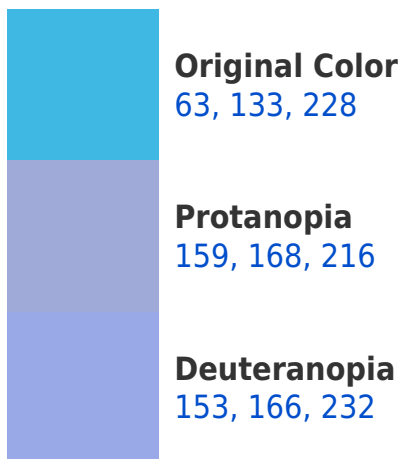



This preview shows how white text looks on a background with the RYB color 63, 133, 228.

# 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**  
45, 121, 204

# Trichromacy



**Original Color**  
63, 133, 228



**Protanomaly**  
124, 157, 220



**Deuteranomaly**  
120, 156, 231



**Tritanomaly**  
52, 125, 213

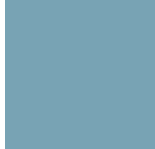
# Monochromacy



**Original Color**  
63, 133, 228



**Achromatopsia**  
153, 153, 153



**Achromatomaly**  
120, 145, 180

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 63, 133, 228 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(63, 185, 228)` looks like.

```
.text, #text, p{  
    color:rgb(63, 185, 228)  
}
```

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(63, 185, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 185, 228) }
```

## Border

The CSS property to change the border of an element to RYB 63, 133, 228 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(63, 185, 228) }
```

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

```
.border{ border-color:rgb(63, 185, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 185, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 185, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 185, 228);  
box-shadow:4px 4px 4px 4px rgb(63, 185,  
228) }
```

# Background

The CSS property to change the background color of an element to RGB 63, 133, 228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 185, 228) }
```

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

```
.background{ background-color: rgb(63, 185,  
228) }
```

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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