

# Converting Colors

`RYB(49, 131, 226)`

Have a look what the booklet for RYB(49, 131, 226) contains.

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# Color

**`RYB(49, 131, 226)`**

# Conversions

## Conversions Part 1

Format	Color
Hex	31CAE2
RGB	49, 202, 226
RGB Percent	19%, 79%, 89%
CMY	0.8078, 0.2087, 0.1137
CMYK	0.78, 0.11, 0.00, 0.11
HSL	188°, 75%, 54%
HSV	188°, 78%, 89%
XYZ	36.0628, 48.2814, 79.3700
YIQ	158.9890, -98.8920, -24.9720

# Conversions

## Conversions Part 2

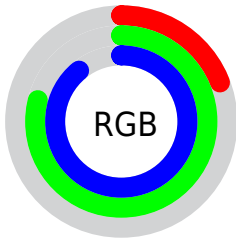
Format	Color
RYP	49, 131, 226
Decimal	3263202
CIELab	75.00, -30.28, -23.10
CIELCh	75, 38.080, 217.337
Yxy	48.2814, 0.2203, 0.2949
Android (android.graphics.Color)	4281453282 (0xFF31CAE2)
YUV	158.9890, 33.0364, -96.4604
Hunter-Lab	69.4848, -28.9564, -19.0855

# Details

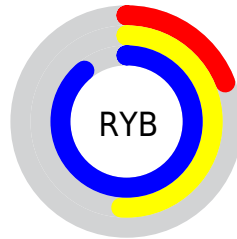
The RYB color **49, 131, 226** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **226, 77, 49**, and the grayscale version is **159, 159, 159**.

A 20% lighter version of the original color is **124, 190, 255**, and **0, 79, 171** is the 20% darker color. If you saturate the color by 10%, you get **26, 119, 226**, and if you desaturate by 10%, it is **72, 143, 226**.

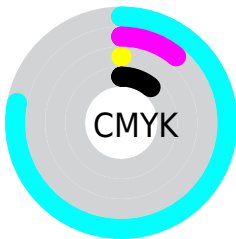
# Distribution



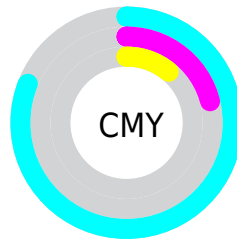
- Red (19%)
- Green (79%)
- Blue (89%)



- Red (19%)
- Yellow (51%)
- Blue (89%)



- Cyan (78%)
- Magenta (11%)
- Yellow (0%)
- Black (11%)




















- Cyan (81%)
- Magenta (21%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 49, 131, 226 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 49, 131, 226 by changing the saturation by 10% instead.



 49, 131, 226	 49, 131, 226
 255, 255, 255	 0, 93, 198
 124, 190, 255	 0, 79, 171
 156, 206, 255	 0, 66, 144
 187, 221, 255	 0, 53, 118
 218, 237, 255	 0, 41, 94
 250, 253, 255	 0, 29, 70
	 0, 18, 47
	 0, 1, 27
	 0, 0, 0

■ 49, 131, 226

■ 49, 131, 226

■ 26, 119, 226

■ 72, 143, 226

■ 4, 107, 226

■ 94, 155, 226

■ 0, 105, 226

■ 117, 167, 226

■ 139, 179, 226

■ 162, 192, 226

■ 185, 204, 226

■ 207, 216, 226

■ 230, 227, 226

■ 252, 231, 226

# Harmonies

## Analogous

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



74, 142, 204



49, 131, 226



91, 154, 249

# Triad

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



49, 131, 226



236, 162, 212



132, 200, 114

# Complementary

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



49, 131, 226



226, 77, 49

# 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.



231, 220, 121



49, 131, 226



253, 158, 177

# Square

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



49, 131, 226



200, 172, 240



250, 166, 144



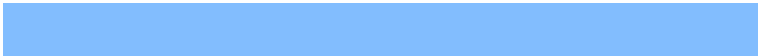
128, 195, 161

# Rectangle

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



49, 131, 226



130, 170, 254



250, 166, 144



157, 211, 114

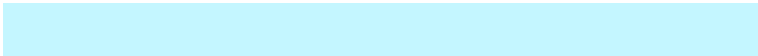


# Sweetspot

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



49, 131, 226



196, 223, 255



49, 205, 226



92, 109, 128



0, 0, 0



128, 128, 128

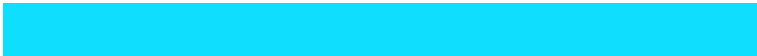


# Same Dimension

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



49, 131, 226



15, 126, 255



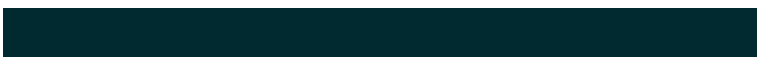
49, 97, 226



101, 106, 112



0, 82, 176



0, 22, 48



# Inverse Universe

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



226, 49, 202



255, 15, 222



152, 226, 49



112, 101, 111



176, 0, 152

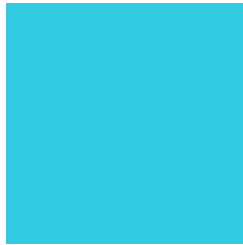


48, 0, 42



# Previews

## White Background



This preview shows how the RYB color 49, 131, 226 looks on a white background.

## Color Contrast Check

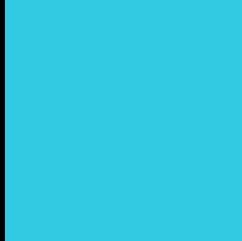
Large Text (above 18pt) WCAG AA × Fail

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 49, 131, 226 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

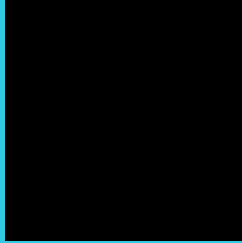
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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



## RGB 49, 131, 226 Background



This preview shows how black text looks on a background with the RGB color 49, 131, 226.

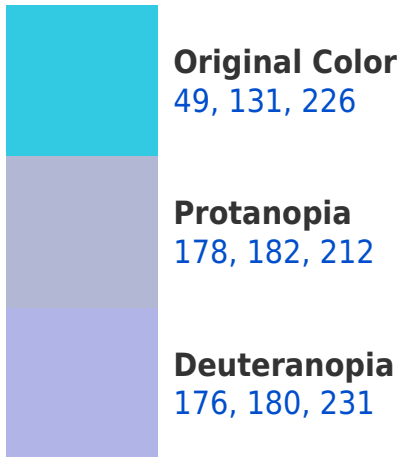


This preview shows how white text looks on a background with the RGB color 49, 131, 226.

# 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**  
43, 127, 219

# Trichromacy



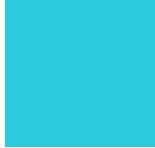
**Original Color**  
49, 131, 226



**Protanomaly**  
131, 166, 217



**Deuteranomaly**  
130, 167, 229



**Tritanomaly**  
45, 128, 222

# Monochromacy



**Original Color**  
49, 131, 226



**Achromatopsia**  
159, 159, 159



**Achromatomaly**  
119, 149, 183

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 49, 131, 226 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(49, 202, 226)` looks like.

```
.text, #text, p{  
    color:rgb(49, 202, 226)  
}
```

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(49, 202, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 202, 226) }
```

## Border

The CSS property to change the border of an element to RYB 49, 131, 226 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(49, 202, 226) }
```

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

```
.border{ border-color:rgb(49, 202, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 202, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 202, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 202, 226);  
box-shadow:4px 4px 4px 4px rgb(49, 202,  
226) }
```

# Background

The CSS property to change the background color of an element to RYB 49, 131, 226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 202, 226) }
```

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

```
.background{ background-color: rgb(49, 202,  
226) }
```

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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