

Converting Colors

`RYB(31, 121, 213)`

Have a look what the booklet for
RYB(31, 121, 213) contains.

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Color

$\text{RYB}(31, 121, 213)$

Conversions

Conversions Part 1

Format	Color
Hex	1FD1D5
RGB	31, 209, 213
RGB Percent	12%, 82%, 84%
CMY	0.8784, 0.1802, 0.1647
CMYK	0.85, 0.02, 0.00, 0.16
HSL	181°, 75%, 48%
HSV	181°, 85%, 84%
XYZ	35.3864, 50.7177, 70.8752
YIQ	156.2340, -107.3720, -36.4920

Conversions

Conversions Part 2

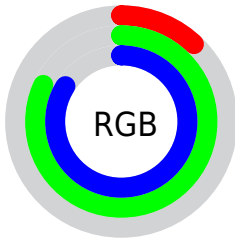
Format	Color
RYB	31, 121, 213
Decimal	2085333
CIELab	76.51, -39.04, -13.83
CIELCh	77, 41.422, 199.511
Yxy	50.7177, 0.2254, 0.3231
Android (android.graphics.Color)	4280275413 (0xFF1FD1D5)
YUV	156.2340, 27.9856, -109.8302
Hunter-Lab	71.2163, -35.9343, -9.1546

Details

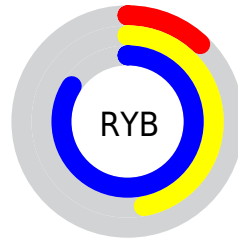
The RYB color **31, 121, 213** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **213, 35, 31**, and the grayscale version is **156, 156, 156**.

A 20% lighter version of the original color is **116, 186, 255**, and **0, 78, 158** is the 20% darker color. If you saturate the color by 10%, you get **10, 110, 213**, and if you desaturate by 10%, it is **52, 132, 213**.

Distribution



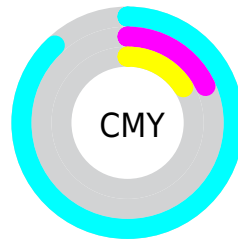
- Red (12%)
- Green (82%)
- Blue (84%)



- Red (12%)
- Yellow (47%)
- Blue (84%)



- Cyan (85%)
- Magenta (2%)
- Yellow (0%)
- Black (16%)




















- Cyan (88%)
- Magenta (18%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the RYB color 31, 121, 213 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 31, 121, 213 by changing the saturation by 10% instead.

 31, 121, 213	 31, 121, 213
 255, 255, 255	 0, 91, 185
 116, 186, 255	 0, 78, 158
 148, 202, 255	 0, 65, 132
 180, 218, 255	 0, 52, 107
 211, 233, 255	 0, 40, 83
 243, 249, 255	 0, 28, 60
	 0, 17, 38
	 0, 1, 17
	 0, 0, 0

■ 31, 121, 213

■ 31, 121, 213

■ 10, 110, 213

■ 52, 132, 213

■ 0, 105, 213

■ 74, 143, 213

■ 95, 153, 213

■ 116, 164, 213

■ 138, 175, 213

■ 159, 186, 213

■ 180, 196, 213

■ 201, 207, 213

■ 223, 213, 213

Harmonies

Analogous

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



94, 161, 208



31, 121, 213



32, 128, 246

Triad

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



31, 121, 213



224, 170, 239



185, 226, 113

Complementary

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



31, 121, 213



213, 35, 31

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.



253, 185, 132



31, 121, 213



254, 160, 204

Square

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



31, 121, 213



173, 183, 255



255, 160, 165



115, 194, 120

Rectangle

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



31, 121, 213



84, 153, 255



255, 160, 165



234, 236, 117

Sweetspot

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



31, 121, 213



189, 222, 255



31, 210, 213



88, 108, 128



0, 0, 0



128, 128, 128

Same Dimension

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



31, 121, 213



0, 126, 255



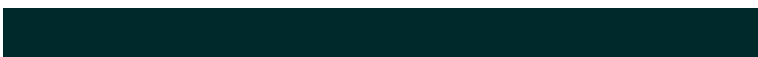
31, 90, 213



96, 102, 107



0, 84, 171



0, 21, 43

Inverse Universe

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



213, 31, 209



255, 0, 249



201, 213, 31



107, 96, 107



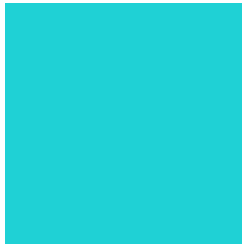
171, 0, 167



43, 0, 42

Previews

White Background



This preview shows how the RYB color 31, 121, 213 looks on a white background.

Color Contrast Check

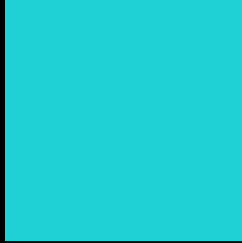
Large Text (above 18pt) WCAG AA × Fail

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 31, 121, 213 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

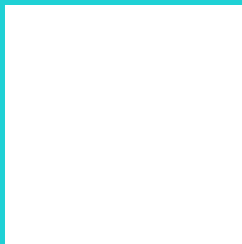
Any Text WCAG AAA ✓ Pass

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

RGB 31, 121, 213 Background



This preview shows how black text looks on a background with the RGB color 31, 121, 213.

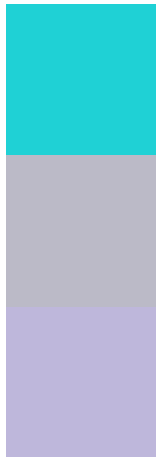


This preview shows how white text looks on a background with the RGB color 31, 121, 213.

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
31, 121, 213

Protanopia
187, 186, 199

Deuteranopia
190, 183, 219



Tritanopia
44, 130, 224

Trichromacy



Original Color

31, 121, 213



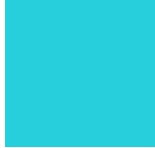
Protanomaly

130, 164, 204



Deuteranomaly

132, 167, 217



Tritanomaly

39, 126, 220

Monochromacy



Original Color

31, 121, 213



Achromatopsia

156, 156, 156



Achromatomaly

111, 143, 177

CSS Examples

Text

The CSS property to change the color of the text to RYB 31, 121, 213 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(31, 209, 213)` looks like.

```
.text, #text, p{  
    color:rgb(31, 209, 213)  
}
```

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(31, 209, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 209, 213) }
```

Border

The CSS property to change the border of an element to RYB 31, 121, 213 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(31, 209, 213) }
```

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

```
.border{ border-color:rgb(31, 209, 213) }
```

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

Here you see how a box with a 4 pixel rgb(31, 209, 213) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 209, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 209, 213);  
box-shadow:4px 4px 4px 4px rgb(31, 209,  
213) }
```

Background

The CSS property to change the background color of an element to RGB 31, 121, 213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 209, 213) }
```

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

```
.background{ background-color: rgb(31, 209,  
213) }
```

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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