

Converting Colors

`RYB(13, 135, 237)`

Have a look what the booklet for RYB(13, 135, 237) contains.

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Color

`RYB(13, 135, 237)`

Conversions

Conversions Part 1

Format	Color
Hex	0DEDC8
RGB	13, 237, 200
RGB Percent	5%, 93%, 78%
CMY	0.9490, 0.0706, 0.2146
CMYK	0.95, 0.00, 0.15, 0.07
HSL	170°, 90%, 49%
HSV	170°, 95%, 93%
XYZ	40.9081, 64.8371, 65.1732
YIQ	165.8060, -121.6270, -58.9950

Conversions

Conversions Part 2

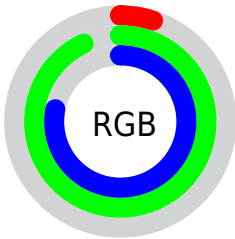
Format	Color
RYB	13, 135, 237
Decimal	912840
CIELab	84.40, -55.25, 4.55
CIElCh	84, 55.436, 175.291
Yxy	64.8371, 0.2393, 0.3793
Android (android.graphics.Color)	4279102920 (0xFF0DEDC8)
YUV	165.8060, 16.8576, -134.0109
Hunter-Lab	80.5215, -50.2276, 8.3764

Details

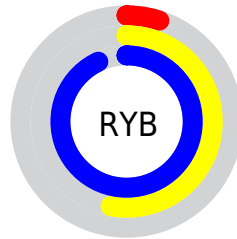
The RYB color **13, 135, 237** is a dark color, and the websafe version is hex **33FFCC**. The color can be described as middle washed cyan. A complement of this color would be **237, 13, 50**, and the grayscale version is **166, 166, 166**.

A 20% lighter version of the original color is **115, 185, 255**, and **0, 99, 180** is the 20% darker color. If you saturate the color by 10%, you get **0, 129, 237**, and if you desaturate by 10%, it is **37, 146, 237**.

Distribution



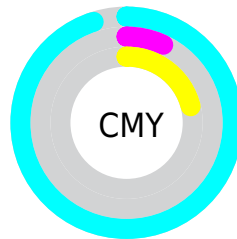
- Red (5%)
- Green (93%)
- Blue (78%)



- Red (5%)
- Yellow (53%)
- Blue (93%)



- Cyan (95%)
- Magenta (0%)
- Yellow (15%)
- Black (7%)




















- Cyan (95%)
- Magenta (7%)
- Yellow (21%)

Brightness & Saturation Gradients

These gradients show how the RYB color 13, 135, 237 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 13, 135, 237 by changing the saturation by 10% instead.

 13, 135, 237	 13, 135, 237
 255, 255, 255	 0, 114, 208
 115, 185, 255	 0, 99, 180
 149, 202, 255	 0, 85, 152
 181, 218, 255	 0, 71, 125
 213, 234, 255	 0, 57, 99
 245, 250, 255	 0, 44, 74
	 0, 33, 51
	 0, 21, 24
	 0, 0, 0

■ 13, 135, 237

■ 13, 135, 237

■ 0, 129, 237

■ 37, 146, 237

■ 60, 156, 237

■ 84, 167, 237

■ 108, 178, 237

■ 132, 189, 237

■ 155, 200, 237

■ 179, 211, 237

■ 203, 222, 237

■ 226, 232, 237

Harmonies

Analogous

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



135, 220, 232



13, 135, 237



0, 123, 254

Triad

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



13, 135, 237



202, 200, 255



255, 238, 126

Complementary

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



13, 135, 237



237, 13, 50

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, 171, 169



13, 135, 237



255, 180, 255

Square

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



13, 135, 237



101, 168, 255



255, 168, 221



169, 250, 104

Rectangle

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



13, 135, 237



0, 122, 255



255, 168, 221



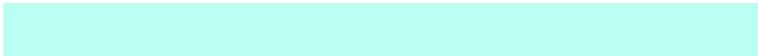
255, 204, 138

Sweetspot

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



13, 135, 237



184, 223, 255



13, 237, 200



84, 108, 128



0, 0, 0



128, 128, 128

Same Dimension

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



13, 135, 237



0, 139, 255



13, 102, 237



106, 112, 117



0, 99, 181



0, 29, 54

Inverse Universe

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



237, 13, 50



255, 0, 42



237, 126, 13



117, 106, 107



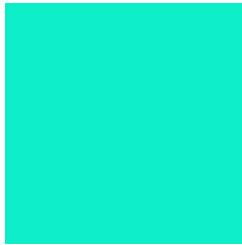
181, 0, 30



54, 0, 9

Previews

White Background



This preview shows how the RYB color 13, 135, 237 looks on a white background.

Color Contrast Check

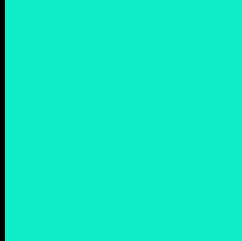
Large Text (above 18pt) WCAG AA × Fail

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 13, 135, 237 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

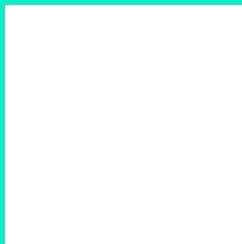
Any Text WCAG AAA ✓ Pass

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

RYB 13, 135, 237 Background



This preview shows how black text looks on a background with the RYB color 13, 135, 237.

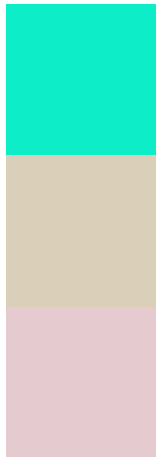


This preview shows how white text looks on a background with the RYB color 13, 135, 237.

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](#).

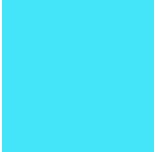
Dichromacy



Original Color
13, 135, 237

Protanopia
199, 218, 185

Deuteranopia
229, 202, 208



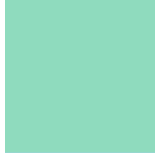
Tritanopia
68, 153, 249

Trichromacy



Original Color

13, 135, 237



Protanomaly

143, 190, 219



Deuteranomaly

150, 185, 215



Tritanomaly

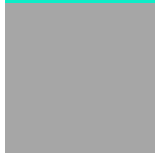
48, 141, 233

Monochromacy



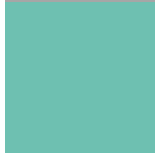
Original Color

13, 135, 237



Achromatopsia

166, 166, 166



Achromatomaly

110, 155, 192

CSS Examples

Text

The CSS property to change the color of the text to RYB 13, 135, 237 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(13, 237, 200)` looks like.

```
.text, #text, p{  
    color:rgb(13, 237, 200)  
}
```

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(13, 237, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 237, 200) }
```

Border

The CSS property to change the border of an element to RYB 13, 135, 237 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(13, 237, 200) }
```

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

```
.border{ border-color:rgb(13, 237, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(13, 237, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 237, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 237, 200);  
box-shadow:4px 4px 4px 4px rgb(13, 237,  
200) }
```

Background

The CSS property to change the background color of an element to RYB 13, 135, 237 is called "background".

The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 237, 200) }
```

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

```
.background{ background-color: rgb(13, 237,  
200) }
```

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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