

Converting Colors

`RYB(13, 100, 231)`

Have a look what the booklet for
RYB(13, 100, 231) contains.

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Color

R_YB(13, 100, 231)

Conversions

Conversions Part 1

Format	Color
Hex	0D9EE7
RGB	13, 158, 231
RGB Percent	5%, 62%, 91%
CMY	0.9490, 0.3813, 0.0941
CMYK	0.94, 0.32, 0.00, 0.09
HSL	200°, 89%, 48%
HSV	200°, 94%, 91%
XYZ	26.7789, 30.2333, 80.0255
YIQ	122.9670, -109.8530, -8.0370

Conversions

Conversions Part 2

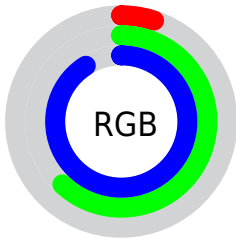
Format	Color
RYB	13, 100, 231
Decimal	892647
CIELab	61.86, -7.80, -46.26
CIElCh	62, 46.910, 260.431
Yxy	30.2333, 0.1954, 0.2206
Android (android.graphics.Color)	4279082727 (0xFF0D9EE7)
YUV	122.9670, 53.2603, -96.4411
Hunter-Lab	54.9849, -9.2898, -47.8019

Details

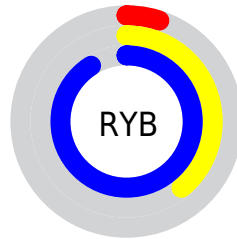
The RYB color **13, 100, 231** is a dark color, and the websafe version is hex **3399CC**. The color can be described as dark washed azure. A complement of this color would be **231, 123, 13**, and the grayscale version is **122, 122, 122**.

A 20% lighter version of the original color is **108, 169, 255**, and **0, 66, 175** is the 20% darker color. If you saturate the color by 10%, you get **0, 92, 231**, and if you desaturate by 10%, it is **36, 114, 231**.

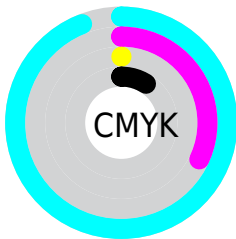
Distribution



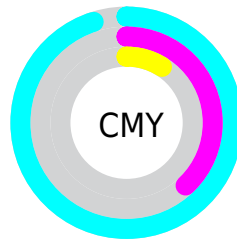
- Red (5%)
- Green (62%)
- Blue (91%)



- Red (5%)
- Yellow (39%)
- Blue (91%)



- Cyan (94%)
- Magenta (32%)
- Yellow (0%)
- Black (9%)




















- Cyan (95%)
- Magenta (38%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the RYB color 13, 100, 231 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, 100, 231 by changing the saturation by 10% instead.

 13, 100, 231	 13, 100, 231
 255, 255, 255	 0, 80, 203
 108, 169, 255	 0, 66, 175
 141, 194, 255	 0, 53, 148
 173, 214, 255	 0, 40, 122
 204, 230, 255	 0, 28, 97
 236, 246, 255	 0, 15, 72
	 0, 4, 49
	 0, 1, 27
	 0, 0, 0

■ 13, 100, 231

■ 13, 100, 231

■ 0, 92, 231

■ 36, 114, 231

■ 59, 128, 231

■ 82, 141, 231

■ 105, 155, 231

■ 129, 170, 231

■ 152, 183, 231

■ 175, 197, 231

■ 198, 211, 231

■ 221, 225, 231

Harmonies

Analogous

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



0, 94, 213



13, 100, 231



131, 142, 227

Triad

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



13, 100, 231



227, 116, 123



94, 165, 162

Complementary

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



13, 100, 231



231, 123, 13

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.



68, 156, 78



13, 100, 231



214, 145, 87

Square

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



13, 100, 231



220, 116, 165



130, 185, 65



0, 95, 170

Rectangle

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



13, 100, 231



172, 133, 213



130, 185, 65



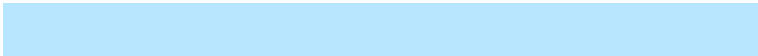
84, 162, 131

Sweetspot

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



13, 100, 231



184, 212, 255



13, 176, 231



84, 101, 128



0, 0, 0



128, 128, 128

Same Dimension

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



13, 100, 231



0, 102, 255



13, 44, 231



103, 108, 115



0, 71, 179



0, 20, 51

Inverse Universe

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



231, 13, 158



255, 0, 169



56, 231, 13



115, 103, 111



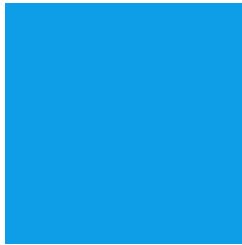
179, 0, 119



51, 0, 34

Previews

White Background



This preview shows how the RYB color 13, 100, 231 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, 100, 231 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

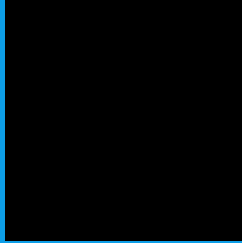
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

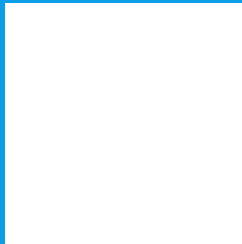
Any Text WCAG AAA ✓ Pass

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

R Y B 13, 100, 231 Background



This preview shows how black text looks on a background with the R Y B color 13, 100, 231.

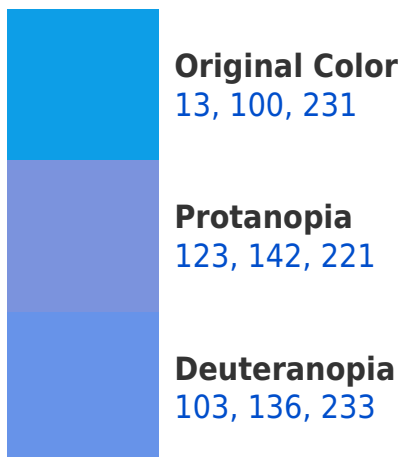


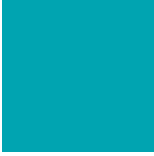
This preview shows how white text looks on a background with the R Y B color 13, 100, 231.

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
0, 85, 177

Trichromacy



Original Color
13, 100, 231

Protanomaly
83, 129, 225

Deuteranomaly
70, 124, 232

Tritanomaly
5, 91, 197

Monochromacy



Original Color
13, 100, 231

Achromatopsia
123, 123, 123

Achromatomaly
83, 115, 162

CSS Examples

Text

The CSS property to change the color of the text to RYB 13, 100, 231 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, 158, 231)` looks like.

```
.text, #text, p{  
    color:rgb(13, 158, 231)  
}
```

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, 158, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 158, 231) }
```

Border

The CSS property to change the border of an element to RYB 13, 100, 231 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, 158, 231) }
```

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

```
.border{ border-color:rgb(13, 158, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(13, 158, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 158, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 158, 231);  
box-shadow:4px 4px 4px 4px rgb(13, 158,  
231) }
```

Background

The CSS property to change the background color of an element to RGB 13, 100, 231 is called "background".

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

```
.background, #background, body{  
background: rgb(13, 158, 231) }
```

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

```
.background{ background-color: rgb(13, 158,  
231) }
```

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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