

Converting Colors

`RYB(13, 112, 224)`

Have a look what the booklet for RYB(13, 112, 224) contains.

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Color

$\text{RYB}(13, 112, 224)$

Conversions

Conversions Part 1

Format	Color
Hex	0DC8E0
RGB	13, 200, 224
RGB Percent	5%, 78%, 88%
CMY	0.9490, 0.2176, 0.1216
CMYK	0.94, 0.11, 0.00, 0.12
HSL	187°, 89%, 46%
HSV	187°, 94%, 88%
XYZ	34.1612, 46.5488, 77.7053
YIQ	146.8230, -119.1560, -32.1800

Conversions

Conversions Part 2

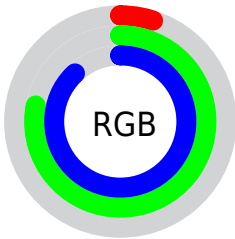
Format	Color
RYB	13, 112, 224
Decimal	903392
CIELab	73.90, -32.00, -23.73
CIELCh	74, 39.841, 216.553
Yxy	46.5488, 0.2156, 0.2938
Android (android.graphics.Color)	4279093472 (0xFF0DC8E0)
YUV	146.8230, 38.0483, -117.3628
Hunter-Lab	68.2267, -30.0214, -19.7684

Details

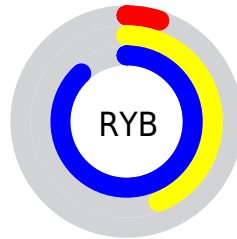
The RYB color **13, 112, 224** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **224, 40, 13**, and the grayscale version is **146, 146, 146**.

A 20% lighter version of the original color is **111, 183, 255**, and **0, 78, 169** is the 20% darker color. If you saturate the color by 10%, you get **0, 105, 224**, and if you desaturate by 10%, it is **35, 124, 224**.

Distribution



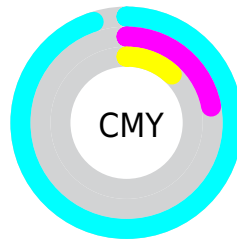
- Red (5%)
- Green (78%)
- Blue (88%)



- Red (5%)
- Yellow (44%)
- Blue (88%)



- Cyan (94%)
- Magenta (11%)
- Yellow (0%)
- Black (12%)




















- Cyan (95%)
- Magenta (22%)
- Yellow (12%)

Brightness & Saturation Gradients

These gradients show how the RYB color 13, 112, 224 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, 112, 224 by changing the saturation by 10% instead.

 13, 112, 224	 13, 112, 224
 255, 255, 255	 0, 92, 196
 111, 183, 255	 0, 78, 169
 144, 200, 255	 0, 65, 142
 176, 216, 255	 0, 52, 117
 208, 232, 255	 0, 40, 92
 239, 247, 255	 0, 28, 68
	 0, 16, 46
	 0, 1, 25
	 0, 0, 0

■ 13, 112, 224

■ 13, 112, 224

■ 0, 105, 224

■ 35, 124, 224

■ 58, 136, 224

■ 80, 147, 224

■ 103, 160, 224

■ 125, 172, 224

■ 147, 183, 224

■ 170, 195, 224

■ 192, 207, 224

■ 215, 219, 224

Harmonies

Analogous

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



61, 134, 201



13, 112, 224



76, 146, 248

Triad

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



13, 112, 224



234, 158, 211



127, 198, 108

Complementary

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



13, 112, 224



224, 40, 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.



230, 217, 115



13, 112, 224



252, 153, 175

Square

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



13, 112, 224



196, 169, 240



249, 162, 140



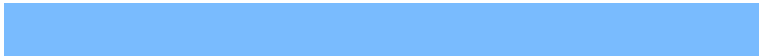
122, 192, 155

Rectangle

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



13, 112, 224



121, 165, 254



249, 162, 140



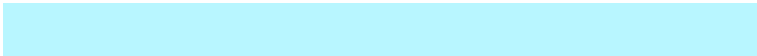
155, 210, 108

Sweetspot

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



13, 112, 224



184, 217, 255



13, 205, 224



84, 104, 128



0, 0, 0



128, 128, 128

Same Dimension

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



13, 112, 224



0, 120, 255



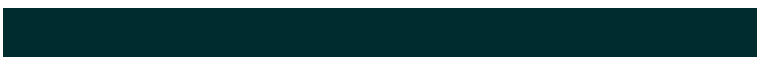
13, 73, 224



101, 106, 112



0, 83, 176



0, 23, 48

Inverse Universe

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



224, 13, 200



255, 0, 225



153, 224, 13



112, 101, 111



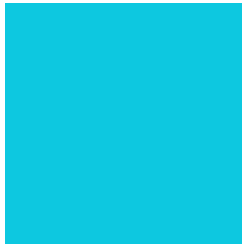
176, 0, 156



48, 0, 43

Previews

White Background



This preview shows how the RYB color 13, 112, 224 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, 112, 224 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

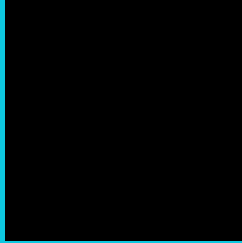
Any Text WCAG AA ✓ Pass

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, 112, 224 Background



This preview shows how black text looks on a background with the RYB color 13, 112, 224.



This preview shows how white text looks on a background with the RYB color 13, 112, 224.

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](#).

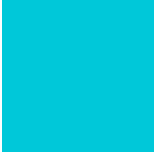
Dichromacy



Original Color
13, 112, 224

Protanopia
174, 178, 210

Deuteranopia
172, 177, 229



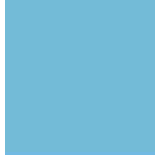
Tritanopia
0, 104, 217

Trichromacy



Original Color

13, 112, 224



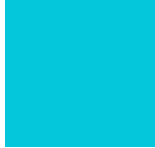
Protanomaly

115, 157, 215



Deuteranomaly

114, 158, 227



Tritanomaly

5, 107, 220

Monochromacy



Original Color

13, 112, 224



Achromatopsia

147, 147, 147



Achromatomaly

98, 134, 175

CSS Examples

Text

The CSS property to change the color of the text to RYB 13, 112, 224 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, 200, 224)` looks like.

```
.text, #text, p{  
    color:rgb(13, 200, 224)  
}
```

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, 200, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 200, 224) }
```

Border

The CSS property to change the border of an element to RYB 13, 112, 224 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, 200, 224) }
```

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

```
.border{ border-color:rgb(13, 200, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(13, 200, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 200, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 200, 224);  
box-shadow:4px 4px 4px 4px rgb(13, 200,  
224) }
```

Background

The CSS property to change the background color of an element to RGB 13, 112, 224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 200, 224) }
```

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

```
.background{ background-color: rgb(13, 200,  
224) }
```

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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