

Converting Colors

`RYB(70, 142, 236)`

Have a look what the booklet for RYB(70, 142, 236) contains.

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Color

`RYB(70, 142, 236)`

Conversions

Conversions Part 1

Format	Color
Hex	46C5EC
RGB	70, 197, 236
RGB Percent	27%, 77%, 93%
CMY	0.7255, 0.2269, 0.0745
CMYK	0.70, 0.16, 0.00, 0.07
HSL	194°, 81%, 60%
HSV	194°, 70%, 93%
XYZ	37.6662, 47.3584, 86.5127
YIQ	163.4730, -88.2110, -14.7950

Conversions

Conversions Part 2

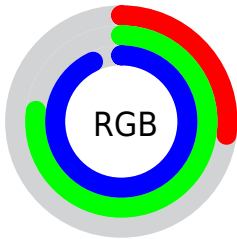
Format	Color
RYB	70, 142, 236
Decimal	4638188
CIELab	74.42, -22.47, -29.35
CIELCh	74, 36.964, 232.555
Yxy	47.3584, 0.2196, 0.2761
Android (android.graphics.Color)	4282828268 (0xFF46C5EC)
YUV	163.4730, 35.7558, -81.9758
Hunter-Lab	68.8174, -22.7312, -26.3633

Details

The RYB color **70, 142, 236** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **236, 121, 70**, and the grayscale version is **163, 163, 163**.

A 20% lighter version of the original color is **137, 196, 255**, and **0, 80, 180** is the 20% darker color. If you saturate the color by 10%, you get **46, 129, 236**, and if you desaturate by 10%, it is **94, 156, 236**.

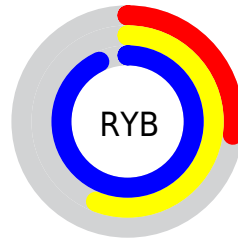
Distribution



Red (27%)

Green (77%)

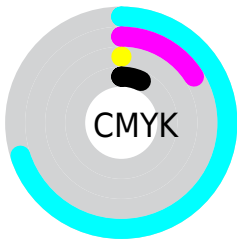
Blue (93%)



Red (27%)

Yellow (56%)

Blue (93%)

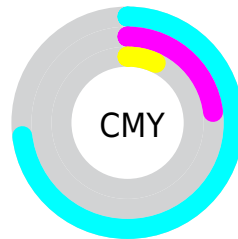


Cyan (70%)

Magenta (16%)

Yellow (0%)

Black (7%)



Cyan (73%)


Magenta (23%)


Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the RYB color 70, 142, 236 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 70, 142, 236 by changing the saturation by 10% instead.

 70, 142, 236

 70, 142, 236

255, 255, 255

 16, 101, 208

 137, 196, 255

 0, 80, 180

 169, 212, 255

 0, 66, 153


 199, 227, 255

 0, 54, 127

 230, 243, 255

 0, 41, 102

 0, 29, 78

 0, 18, 55

 0, 2, 33

 0, 0, 6

■ 70, 142, 236

■ 70, 142, 236

■ 46, 129, 236

■ 94, 156, 236

■ 23, 115, 236

■ 117, 169, 236

■ 0, 102, 236

■ 141, 182, 236

■ 164, 195, 236

■ 188, 209, 236

■ 212, 222, 236

■ 235, 236, 236

■ 255, 243, 236

■ 250, 255, 236

Harmonies

Analogous

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



61, 133, 208



70, 142, 236



122, 166, 250

Triad

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



70, 142, 236



244, 158, 193



119, 189, 128

Complementary

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



70, 142, 236



236, 121, 70

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.



173, 214, 116



70, 142, 236



250, 158, 159

Square

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



70, 142, 236



218, 165, 225



239, 184, 130



140, 196, 197

Rectangle

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



70, 142, 236



158, 176, 249



239, 184, 130



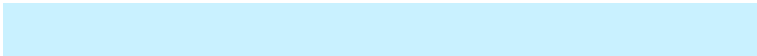
123, 192, 116

Sweetspot

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



70, 142, 236



201, 224, 255



70, 204, 236



96, 110, 128



0, 0, 0



128, 128, 128

Same Dimension

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



70, 142, 236



41, 134, 255



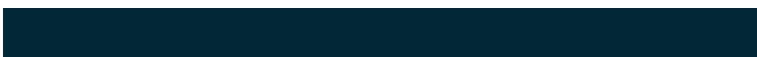
70, 105, 236



106, 111, 117



0, 79, 181



0, 23, 54

Inverse Universe

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



236, 70, 197



255, 41, 205



130, 236, 70



117, 106, 115



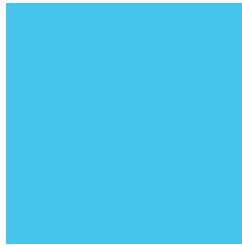
181, 0, 139



54, 0, 41

Previews

White Background



This preview shows how the RYB color 70, 142, 236 looks on a white background.

Color Contrast Check

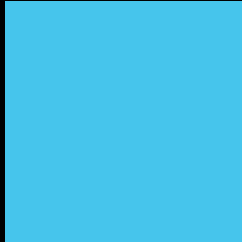
Large Text (above 18pt) WCAG AA × Fail

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 70, 142, 236 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

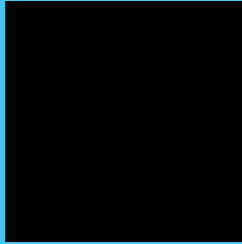
Any Text WCAG AA ✓ Pass

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 70, 142, 236 Background



This preview shows how black text looks on a background with the RYB color 70, 142, 236.

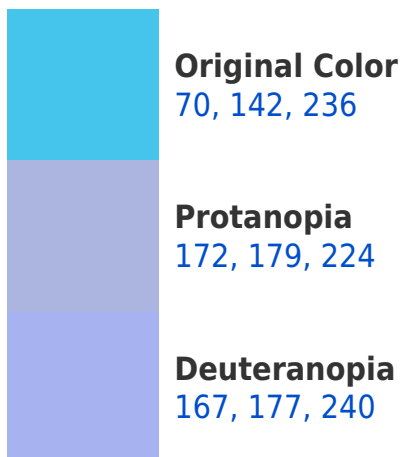


This preview shows how white text looks on a background with the RYB color 70, 142, 236.

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
57, 133, 217

Trichromacy



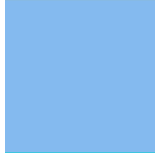
Original Color

70, 142, 236



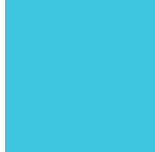
Protanomaly

135, 168, 228



Deuteranomaly

132, 168, 239



Tritanomaly

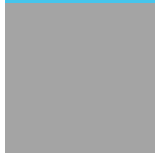
62, 136, 224

Monochromacy



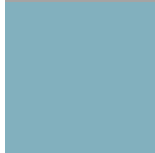
Original Color

70, 142, 236



Achromatopsia

164, 164, 164



Achromatomaly

130, 156, 190

CSS Examples

Text

The CSS property to change the color of the text to RYB 70, 142, 236 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(70, 197, 236)` looks like.

```
.text, #text, p{  
    color:rgb(70, 197, 236)  
}
```

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(70, 197, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 197, 236) }
```

Border

The CSS property to change the border of an element to RYB 70, 142, 236 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(70, 197, 236) }
```

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

```
.border{ border-color:rgb(70, 197, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 197, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 197, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 197, 236);  
box-shadow:4px 4px 4px 4px rgb(70, 197,  
236) }
```

Background

The CSS property to change the background color of an element to RGB 70, 142, 236 is called "background".

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

```
.background, #background, body{  
background: rgb(70, 197, 236) }
```

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

```
.background{ background-color: rgb(70, 197,  
236) }
```

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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