

# Converting Colors

XYZ(59.5963, 69.3023,  
154.9074)

Have a look what the booklet for  
XYZ(59.5963, 69.3023, 154.9074)  
contains.

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# Color

**XYZ(49.9071, 65.2371,  
104.5694)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56E5FF
RGB	86, 229, 255
RGB Percent	34%, 90%, 100%
CMY	0.6627, 0.1019, 0.0000
CMYK	0.66, 0.10, 0.00, 0.00
HSL	189°, 100%, 67%
HSV	189°, 66%, 100%
XYZ	49.9071, 65.2371, 104.5694
YIQ	189.2070, -93.5740, -22.2300

# Conversions

## Conversions Part 2

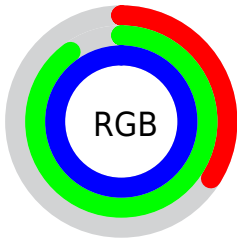
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	86, 163, 255
Decimal	5694975
CIE <sub>Lab</sub>	84.61, -30.27, -23.86
CIE <sub>LCh</sub>	85, 38.545, 218.254
Yxy	65.2371, 0.2271, 0.2969
Android (android.graphics.Color)	4283885055 (0xFF56E5FF)
YUV	189.2070, 32.4359, -90.5125
Hunter-Lab	80.7695, -31.0523, -20.2220

# Details

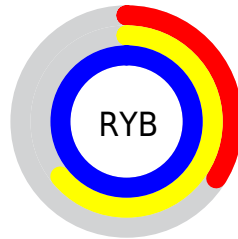
The XYZ color **49.9071, 65.2371, 104.5694** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light muted cyan. A complement of this color would be **48.7150, 33.5219, 12.7091**, and the grayscale version is **48.3492, 50.8671, 55.3943**.

A 20% lighter version of the original color is **66.9469, 85.5123, 107.5848**, and **25.1366, 33.9644, 58.6570** is the 20% darker color. If you saturate the color by 10%, you get **46.8915, 62.0906, 104.1210**, and if you desaturate by 10%, it is **53.7880, 68.8687, 105.0658**.

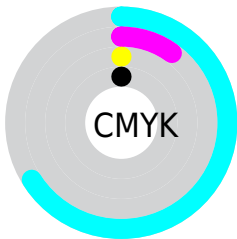
# Distribution



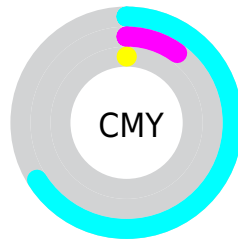
- Red (34%)
- Green (90%)
- Blue (100%)



- Red (34%)
- Yellow (64%)
- Blue (100%)



- Cyan (66%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)



- Cyan (66%)
- Magenta (10%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9071, 65.2371, 104.5694 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 XYZ color 49.9071, 65.2371, 104.5694 by changing the saturation by 10% instead.



49.9071, 65.2371,  
104.5694

49.9071, 65.2371,  
104.5694

376.7605,  
443.6435, 596.1167

35.5571, 47.6534,  
79.4840

89.2299, 112.3907,  
169.5290

24.2608, 33.5525,  
58.7702

114.9333,  
142.7293, 210.2402

15.6530, 22.5500,  
42.0093

145.1520,  
178.0883, 256.9972

9.3682, 14.2616,  
28.7830

180.2512,  
218.8522, 310.2185

5.0412, 8.3028,  
18.6725

220.5963,  
265.4052, 370.3225

2.3064, 4.2893,  
11.2595

266.5526,

0.7980, 1.8367,

318.1318, 437.7278

6.1253

318.4856,  
377.4165, 512.8531

■ 0.0000, 0.5099,  
2.8514

■ 0.0000, 0.0000,  
1.0193

■ 49.9071, 65.2371,  
104.5694

■ 49.9071, 65.2371,  
104.5694

■ 46.8915, 62.0906,  
104.1210

■ 53.7880, 68.8687,  
105.0658

■ 44.6416, 59.3738,  
103.7152

■ 58.6087, 73.0202,  
105.6130

■ 43.0425, 57.0283,  
103.3467

■ 64.4419, 77.7305,  
106.2148

■ 42.5475, 56.2150,  
103.2158

■ 71.3516, 83.0328,  
106.8741

■ 79.3963, 88.9576,  
107.5936

■ 88.6303, 95.5331,  
108.3762

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



47.0400, 65.2371, 78.0493



49.9071, 65.2371, 104.5694



56.0795, 65.2371, 124.7181

# Triad

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



49.9071, 65.2371, 104.5694



78.6664, 65.2371, 90.0602



59.6624, 65.2371, 33.7197

# Complementary

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



49.9071, 65.2371, 104.5694



48.7150, 33.5219, 12.7091

# 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.



68.3357, 65.2371, 35.5025



49.9071, 65.2371, 104.5694



79.8506, 65.2371, 64.4487

# Square

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



49.9071, 65.2371, 104.5694



72.8168, 65.2371, 115.0836



75.9173, 65.2371, 45.5623

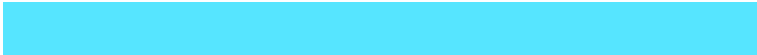


52.3218, 65.2371, 39.9583

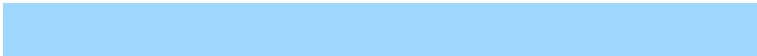


# Rectangle

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



49.9071, 65.2371, 104.5694



61.5035, 65.2371, 129.6543



75.9173, 65.2371, 45.5623



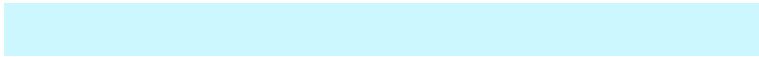
62.5111, 65.2371, 33.4354

# Sweetspot

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



49.9089, 65.2394, 104.5697



76.2598, 86.6734, 107.3181



42.4877, 74.6545, 27.3131



15.8398, 18.1958, 22.9272



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

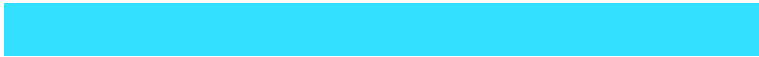


# Same Dimension

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



49.9089, 65.2394, 104.5697



45.9682, 61.0298, 103.9649



32.0380, 29.4976, 98.6128



18.3028, 19.9773, 23.1413



22.3217, 29.5530, 53.9624



2.2348, 3.0004, 5.2746



# Inverse Universe

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



58.7119, 33.5745, 77.5173



55.8265, 28.9887, 72.9024



62.6270, 61.3459, 17.3464



18.6655, 18.2495, 22.1217



28.0552, 13.7114, 35.2706

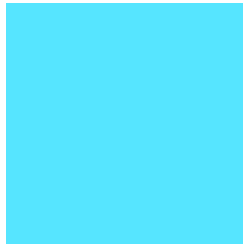


2.7626, 1.3474, 3.5975



# Previews

## White Background



This preview shows how the XYZ color 49.9071, 65.2371, 104.5694 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

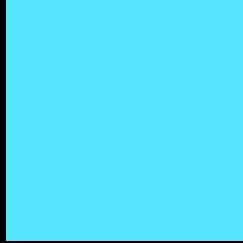
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9071, 65.2371, 104.5694 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](#).

# XYZ 49.9071, 65.2371, 104.5694

## Background



This preview shows how black text looks on a background with the XYZ color 49.9071, 65.2371, 104.5694.



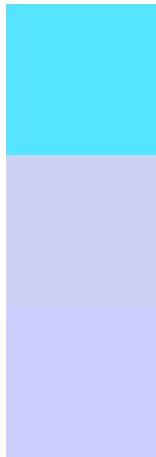
This preview shows how white text looks on a background with the XYZ color 49.9071, 65.2371,



# 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

49.9071, 65.2371, 104.5694

### Protanopia

63.3349, 64.3000, 92.2921

### Deuteranopia

65.2981, 64.3417, 103.5854



## Tritanopia

48.9630, 65.2722, 99.6407

# Trichromacy



## Original Color

49.9071, 65.2371, 104.5694



## Protanomaly

55.8884, 63.3426, 96.4695



## Deuteranomaly

56.9969, 62.9945, 103.7628



## Tritanomaly

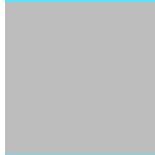
49.3656, 65.4435, 101.2968

# Monochromacy



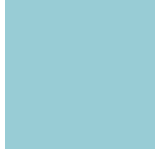
## Original Color

49.9071, 65.2371, 104.5694



## Achromatopsia

48.3692, 50.8881, 55.4172



## Achromatomaly

46.5520, 54.6652, 71.0487

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9071, 65.2371, 104.5694 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(86, 229, 255)` looks like.

```
.text, #text, p{  
    color:rgb(86, 229, 255)  
}
```

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(86, 229, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 229, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9071, 65.2371, 104.5694 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(86, 229, 255) }
```



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

```
.border{ border-color:rgb(86, 229, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 229, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 229, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 229, 255);  
box-shadow:4px 4px 4px 4px rgb(86, 229,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9071, 65.2371, 104.5694 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 229, 255) }
```

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

```
.background{ background-color: rgb(86, 229,  
255) }
```

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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