

# Converting Colors

XYZ(49.9194, 55.1100, 89.7335)

Have a look what the booklet for  
XYZ(49.9194, 55.1100, 89.7335)  
contains.

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# Color

**XYZ(49.7931, 54.8753,  
89.6290)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9AC9EF
RGB	154, 201, 239
RGB Percent	60%, 79%, 94%
CMY	0.3961, 0.2118, 0.0627
CMYK	0.36, 0.16, 0.00, 0.06
HSL	207°, 73%, 77%
HSV	207°, 36%, 94%
XYZ	49.7931, 54.8753, 89.6290
YIQ	191.2790, -40.2100, 1.8540

# Conversions

## Conversions Part 2

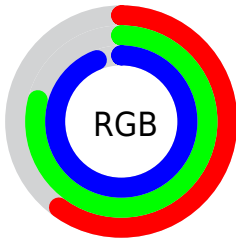
<b>Format</b>	<b>Color</b>
<b>RYB</b>	154, 184, 239
Decimal	10144239
CIELab	78.97, -6.28, -23.70
CIELCh	79, 24.517, 255.156
Yxy	54.8753, 0.2563, 0.2824
Android (android.graphics.Color)	4288334319 (0xFF9AC9EF)
YUV	191.2790, 23.5265, -32.6937
Hunter-Lab	74.0779, -9.6535, -19.8822

# Details

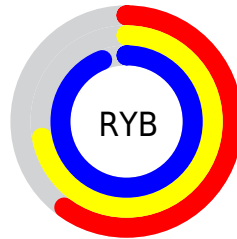
The XYZ color **49.7931, 54.8753, 89.6290** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **60.2801, 58.3842, 38.6658**, and the grayscale version is **49.5690, 52.1505, 56.7919**.

A 20% lighter version of the original color is **80.3883, 92.4416, 108.2138**, and **24.2365, 26.9957, 48.7330** is the 20% darker color. If you saturate the color by 10%, you get **43.2847, 47.9514, 88.6365**, and if you desaturate by 10%, it is **57.3839, 62.6169, 90.7242**.

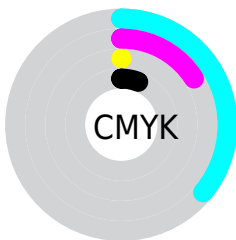
# Distribution



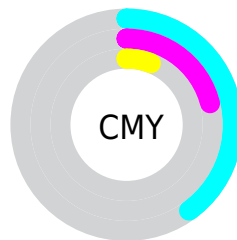
- Red (60%)
- Green (79%)
- Blue (94%)



- Red (60%)
- Yellow (72%)
- Blue (94%)



- Cyan (36%)
- Magenta (16%)
- Yellow (0%)
- Black (6%)



- Cyan (40%)
- Magenta (21%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7931, 54.8753, 89.6290 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 49.7931, 54.8753, 89.6290 by changing the saturation by 10% instead.



■ 49.7931, 54.8753,  
89.6290

■ 49.7931, 54.8753,  
89.6290

376.3217,  
405.4391, 547.3622

■ 35.4662, 39.3019,  
67.1010

■ 89.0619, 97.3582,  
148.7540

■ 24.1904, 26.9947,  
48.7046

■ 114.7345,  
125.0365, 186.1880

■ 15.6004, 17.5692,  
34.0213

144.9196,  
157.5186, 229.4278

■ 9.3309, 10.6412,  
22.6324

179.9827,  
195.1888, 278.8919

■ 5.0165, 5.8261,  
14.1196

220.2891,  
238.4316, 334.9989

■ 2.2918, 2.7396,  
8.0642

266.2042,

■ 0.7905, 0.9974,

287.6313, 398.1672

4.0477

318.0932,  
343.1723, 468.8155

■ 0.0000, 0.0000,  
1.6515

■ 0.0000, 0.0000,  
0.3272

■ 49.7931, 54.8753,  
89.6290

■ 49.7931, 54.8753,  
89.6290

■ 43.2847, 47.9514,  
88.6365

■ 57.3839, 62.6169,  
90.7242

■ 37.7959, 41.8039,  
87.7393

■ 66.1047, 71.2020,  
91.9216

■ 33.2650, 36.3969,  
86.9344

■ 76.0066, 80.6632,  
93.2259

■ 29.6209, 31.6882,  
86.2176

■ 87.1359, 91.0290,  
94.6401

■ 26.7809, 27.6294,  
85.5839

■ 92.3973, 98.6463,  
95.8331

■ 24.6440, 24.1625,  
85.0273

■ 92.5802, 99.0121,  
95.8941

■ 23.8527, 22.7771,  
84.8016

# Harmonies

## Analogous

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



45.8240, 54.8753, 80.8710



49.7931, 54.8753, 89.6290



54.6460, 54.8753, 89.5795

# Triad

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



49.7931, 54.8753, 89.6290



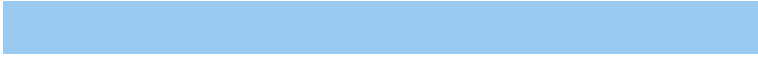
61.7357, 54.8753, 53.0041



45.7909, 54.8753, 42.7516

# Complementary

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



49.7931, 54.8753, 89.6290



60.2801, 58.3842, 38.6658

# 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.



49.7454, 54.8753, 37.4080



49.7931, 54.8753, 89.6290



59.0489, 54.8753, 42.6691

# Square

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



49.7931, 54.8753, 89.6290



61.7505, 54.8753, 66.8929



54.5952, 54.8753, 37.3804



43.6130, 54.8753, 53.1343



# Rectangle

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



49.7931, 54.8753, 89.6290



57.7416, 54.8753, 84.4889



54.5952, 54.8753, 37.3804



46.9452, 54.8753, 40.3833

# Sweetspot

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



49.7948, 54.8774, 89.6303



81.6021, 87.3214, 107.1616



53.5800, 72.3586, 60.3384



17.1369, 18.3747, 22.8934



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

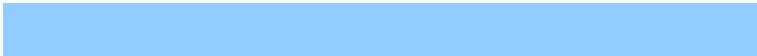


# Same Dimension

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



49.7948, 54.8774, 89.6303



51.8556, 57.4052, 102.9550



41.4211, 38.1300, 86.8390



15.6220, 16.6781, 20.1174



13.3144, 12.8530, 46.9070



1.2068, 1.2676, 3.9353



# Inverse Universe

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



57.6963, 45.6807, 61.0369



62.5573, 46.0733, 63.9765



70.6639, 79.1517, 42.1270



16.1386, 15.9052, 18.2863



22.0461, 11.0909, 13.4253

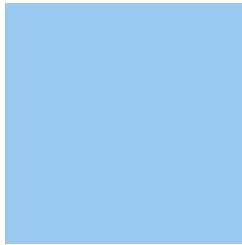


1.8841, 0.9427, 1.3804



# Previews

## White Background



This preview shows how the XYZ color 49.7931, 54.8753, 89.6290 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

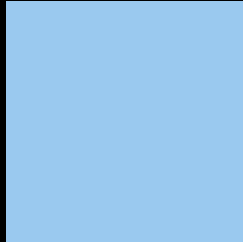
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.7931, 54.8753, 89.6290 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

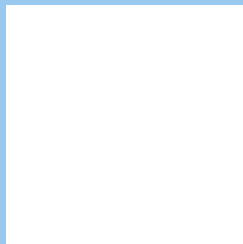
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.7931, 54.8753, 89.6290**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7931, 54.8753, 89.6290.



This preview shows how white text looks on a background with the XYZ color 49.7931, 54.8753,



# 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

49.7931, 54.8753, 89.6290

### Protanopia

54.1709, 54.5195, 85.5101

### Deuteranopia

55.7432, 54.5596, 90.8122



## Tritanopia

47.2217, 54.8902, 76.5126

# Trichromacy



## Original Color

49.7931, 54.8753, 89.6290

## Protanomaly

52.3358, 54.5347, 87.1247

## Deuteranomaly

53.3747, 54.6686, 90.1770

## Tritanomaly

48.1220, 54.8926, 81.4578

# Monochromacy



## Original Color

49.7931, 54.8753, 89.6290

## Achromatopsia

49.5206, 52.0996, 56.7364

## Achromatomaly

49.2604, 53.0493, 67.3177

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7931, 54.8753, 89.6290 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(154, 201, 239)` looks like.

```
.text, #text, p{  
    color:rgb(154, 201, 239)  
}
```

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(154, 201, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 201, 239) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7931, 54.8753, 89.6290 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(154, 201, 239) }
```



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

```
.border{ border-color:rgb(154, 201, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(154, 201, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 201, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 201, 239);  
box-shadow:4px 4px 4px 4px rgb(154, 201,  
239) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7931, 54.8753, 89.6290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 201, 239) }
```

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

```
.background{ background-color: rgb(154,  
201, 239) }
```

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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