

# Converting Colors

XYZ(38.4172, 48.9685, 86.1227)

Have a look what the booklet for  
XYZ(38.4172, 48.9685, 86.1227)  
contains.

<b>XYZ(38.4806, 49.1110, 86.0485)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(38.4806, 49.1110,  
86.0485)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47C9EB
RGB	71, 201, 235
RGB Percent	28%, 79%, 92%
CMY	0.7215, 0.2118, 0.0784
CMYK	0.70, 0.14, 0.00, 0.08
HSL	192°, 80%, 60%
HSV	192°, 70%, 92%
XYZ	38.4806, 49.1110, 86.0485
YIQ	166.0060, -88.3940, -16.9860

# Conversions

## Conversions Part 2

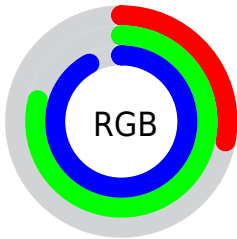
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	71, 144, 235
Decimal	4704747
CIE <sub>Lab</sub>	75.52, -24.60, -27.12
CIE <sub>LCh</sub>	76, 36.608, 227.790
Yxy	49.1110, 0.2216, 0.2828
Android (android.graphics.Color)	4282894827 (0xFF47C9EB)
YUV	166.0060, 34.0140, -83.3203
Hunter-Lab	70.0792, -24.6241, -23.7452

# Details

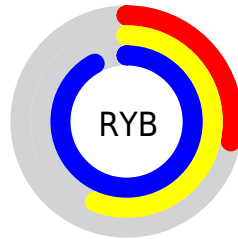
The XYZ color **38.4806, 49.1110, 86.0485** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **40.4516, 28.2226, 9.2786**, and the grayscale version is **36.1220, 38.0032, 41.3854**.

A 20% lighter version of the original color is **64.2912, 84.1433, 107.4605**, and **18.5704, 24.1221, 46.3251** is the 20% darker color. If you saturate the color by 10%, you get **35.9610, 46.1536, 85.6114**, and if you desaturate by 10%, it is **41.7055, 52.4874, 86.5312**.

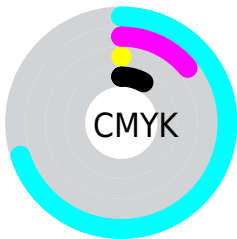
# Distribution



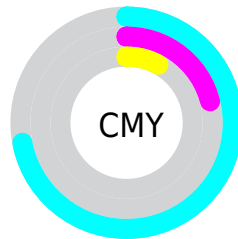
- Red (28%)
- Green (79%)
- Blue (92%)



- Red (28%)
- Yellow (56%)
- Blue (92%)



- Cyan (70%)
- Magenta (14%)
- Yellow (0%)
- Black (8%)



- Cyan (72%)
- Magenta (21%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.4806, 49.1110, 86.0485 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 38.4806, 49.1110, 86.0485 by changing the saturation by 10% instead.



■ 38.4806, 49.1110,  
86.0485

■ 38.4806, 49.1110,  
86.0485

330.9225,  
383.1791, 535.3259

■ 26.5348, 34.7075,  
64.1530

■ 72.1433, 88.8563,  
143.7243

■ 17.3589, 23.4377,  
46.3276

■ 94.5910, 114.9669,  
180.3417

■ 10.5876, 14.9170,  
32.1539

■ 121.2700,  
145.7487, 222.7033

■ 5.8555, 8.7612,  
21.2133

■ 152.5457,  
181.5861, 271.2279

■ 2.7972, 4.5857,  
13.0872

188.7834,  
222.8634, 326.3339

■ 1.0475, 2.0063,  
7.3572

230.3486,

■ 0.0000, 0.6111,

269.9651, 388.4399

3.6047

277.6065,  
323.2755, 457.9644

■ 0.0000, 0.0000,  
1.4111

■ 0.0000, 0.0000,  
0.1503

■ 38.4806, 49.1110,  
86.0485

■ 38.4806, 49.1110,  
86.0485

■ 35.9610, 46.1536,  
85.6114

■ 41.7055, 52.4874,  
86.5312

■ 34.0598, 43.5670,  
85.2123


■ 45.6998, 56.3134,  
87.0592

■ 32.6424, 41.2824,  
84.8461


■ 50.5256, 60.6226,  
87.6366


■ 32.6136, 41.2343,  
84.8383


■ 56.2373, 65.4433,  
88.2660

 62.8844, 70.8017,  
88.9499

 70.5127, 76.7217,  
89.6906

 79.1649, 83.2258,  
90.4900

 87.3896, 89.5662,  
91.2803

 88.8430, 92.4731,  
91.7648

# Harmonies

## Analogous

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



35.3657, 49.1110, 65.6695



38.4806, 49.1110, 86.0485



43.9836, 49.1110, 98.7211

# Triad

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



38.4806, 49.1110, 86.0485



60.5668, 49.1110, 61.7376



42.8196, 49.1110, 25.2875

# Complementary

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



38.4806, 49.1110, 86.0485



40.4516, 28.2226, 9.2786

# 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.



49.4814, 49.1110, 24.7226



38.4806, 49.1110, 86.0485



60.1781, 49.1110, 42.8895

# Square

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



38.4806, 49.1110, 86.0485



56.9808, 49.1110, 82.5784



55.9652, 49.1110, 30.3726



37.6995, 49.1110, 32.1637



# Rectangle

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



38.4806, 49.1110, 86.0485



48.4621, 49.1110, 99.4732



55.9652, 49.1110, 30.3726



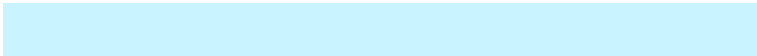
44.9392, 49.1110, 24.4257

# Sweetspot

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



38.4822, 49.1128, 86.0497



74.5785, 84.3399, 106.9563



34.7971, 61.7530, 23.1315



15.4722, 17.6603, 22.8433



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.



38.4822, 49.1128, 86.0497



42.1495, 54.0733, 102.8234



24.3365, 20.8214, 81.3345



15.2371, 16.5607, 19.3157



18.2455, 23.1380, 47.2474



1.4993, 1.9500, 3.7322



# Inverse Universe

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



47.0583, 26.3875, 57.8730



53.7328, 27.5148, 63.8389



52.9168, 53.1529, 13.4337



15.5733, 15.2572, 18.3040



24.0648, 11.8286, 27.2062

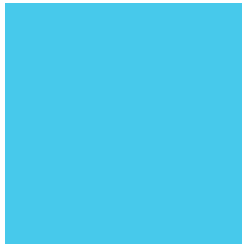


1.9233, 0.9423, 2.3133



# Previews

## White Background



This preview shows how the XYZ color 38.4806, 49.1110, 86.0485 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

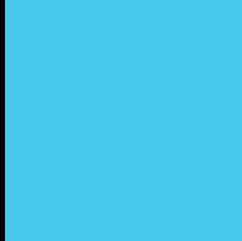
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.4806, 49.1110, 86.0485 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 38.4806, 49.1110, 86.0485**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.4806, 49.1110, 86.0485.



This preview shows how white text looks on a background with the XYZ color 38.4806, 49.1110,



# 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

38.4806, 49.1110, 86.0485

### Protanopia

48.0228, 48.3710, 75.9127

### Deuteranopia

49.5415, 48.5721, 88.4256



## Tritanopia

36.4356, 49.3451, 75.3144

# Trichromacy



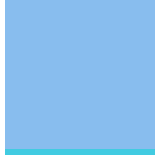
## Original Color

38.4806, 49.1110, 86.0485



## Protanomaly

42.7598, 47.7762, 79.6411



## Deuteranomaly

43.7836, 47.8025, 87.8081



## Tritanomaly

37.1265, 49.2719, 78.7878

# Monochromacy



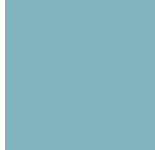
## Original Color

38.4806, 49.1110, 86.0485



## Achromatopsia

36.2450, 38.1326, 41.5264



## Achromatomaly

34.8841, 40.8271, 55.3320

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.4806, 49.1110, 86.0485 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(71, 201, 235)` looks like.

```
.text, #text, p{  
    color:rgb(71, 201, 235)  
}
```

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(71, 201, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 201, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 38.4806, 49.1110, 86.0485 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(71, 201, 235) }
```



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

```
.border{ border-color:rgb(71, 201, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 201, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 201, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 201, 235);  
box-shadow:4px 4px 4px 4px rgb(71, 201,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.4806, 49.1110, 86.0485 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 201, 235) }
```

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

```
.background{ background-color: rgb(71, 201,  
235) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor