

# Converting Colors

XYZ(50.0554, 70.8014, 89.7138)

Have a look what the booklet for  
XYZ(50.0554, 70.8014, 89.7138)  
contains.

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# Color

**XYZ(50.0180, 70.7478,  
89.6167)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53F1EB
RGB	83, 241, 235
RGB Percent	33%, 95%, 92%
CMY	0.6745, 0.0549, 0.0784
CMYK	0.66, 0.00, 0.02, 0.05
HSL	178°, 85%, 64%
HSV	178°, 66%, 95%
XYZ	50.0180, 70.7478, 89.6167
YIQ	193.0740, -92.2420, -35.3620

# Conversions

## Conversions Part 2

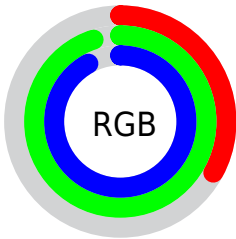
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	83, 164, 241
Decimal	5501419
CIE <sub>Lab</sub>	87.36, -41.85, -9.22
CIE <sub>LCh</sub>	87, 42.855, 192.423
Yxy	70.7478, 0.2377, 0.3363
Android (android.graphics.Color)	4283691499 (0xFF53F1EB)
YUV	193.0740, 20.6695, -96.5349
Hunter-Lab	84.1117, -41.0484, -4.2922

# Details

The XYZ color **50.0180, 70.7478, 89.6167** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light muted cyan. A complement of this color would be **41.1745, 25.6107, 12.2268**, and the grayscale version is **50.6556, 53.2937, 58.0368**.

A 20% lighter version of the original color is **66.3877, 85.2240, 107.5586**, and **25.2772, 37.5357, 48.5607** is the 20% darker color. If you saturate the color by 10%, you get **48.1183, 69.7853, 88.8406**, and if you desaturate by 10%, it is **52.6612, 72.0967, 90.4343**.

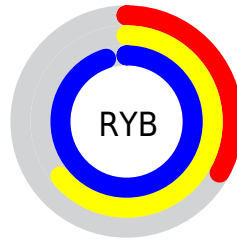
# Distribution



Red (33%)

Green (95%)

Blue (92%)



Red (33%)

Yellow (64%)

Blue (95%)

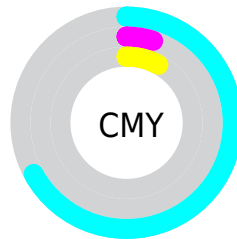


Cyan (66%)

Magenta (0%)

Yellow (2%)

Black (5%)



Cyan (67%)

Magenta (5%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.0180, 70.7478, 89.6167 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 50.0180, 70.7478, 89.6167 by changing the saturation by 10% instead.





 50.0180, 70.7478,  
89.6167


 50.0180, 70.7478,  
89.6167


377.1872,  
463.1713, 547.3211


 35.6456, 52.1364,  
67.0909


 89.3932, 120.2746,  
148.7367


 24.3294, 37.1138,  
48.6964


 115.1267,  
151.9587, 186.1680

 15.7042, 25.2956,  
34.0148

 145.3779,  
188.7692, 229.4048

 9.4046, 16.2974,  
22.6275

 180.5122,  
231.0905, 278.8657

 5.0652, 9.7349,  
14.1160

220.8949,  
279.3070, 334.9693

 2.3207, 5.2235,  
8.0617

266.8914,

 0.8052, 2.3790,

333.8030, 398.1340

4.0461

318.8670,  
394.9630, 468.7784

■ 0.0000, 0.8151,  
1.6507

■ 0.0000, 0.0000,  
0.3266

■ 50.0180, 70.7478,  
89.6167

■ 50.0180, 70.7478,  
89.6167

■ 48.1183, 69.7853,  
88.8406

■ 52.6612, 72.0967,  
90.4343

■ 46.8754, 69.1598,  
88.0972


■ 56.1106, 73.8595,  
91.2917


■ 46.1923, 68.8227,  
87.3835


■ 60.4292, 76.0704,  
92.1933


■ 46.0003, 68.7304,  
87.0727


■ 65.6722, 78.7577,  
93.1417

 71.8901, 81.9475,  
94.1393

 79.1299, 85.6640,  
95.1884

 87.4355, 89.9299,  
96.2909

 88.7725, 90.6033,  
97.0708

 88.9106, 90.6585,  
97.7983

# Harmonies

## Analogous

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



50.3897, 70.7478, 61.4393



50.0180, 70.7478, 89.6167



53.9127, 70.7478, 120.9321

# Triad

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



50.0180, 70.7478, 89.6167



81.2016, 70.7478, 125.7682



73.2754, 70.7478, 35.2712

# Complementary

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



50.0180, 70.7478, 89.6167



41.1745, 25.6107, 12.2268

# 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.



82.6088, 70.7478, 45.2958



50.0180, 70.7478, 89.6167



87.4902, 70.7478, 95.0628

# Square

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



50.0180, 70.7478, 89.6167



71.5051, 70.7478, 145.0468



88.0295, 70.7478, 65.6849



63.1550, 70.7478, 34.5084



# Rectangle

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



50.0180, 70.7478, 89.6167



58.6547, 70.7478, 137.5371



88.0295, 70.7478, 65.6849



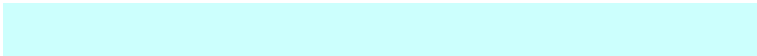
76.6327, 70.7478, 37.5270

# Sweetspot

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



50.0201, 70.7505, 89.6184



78.4014, 91.4532, 106.5008



37.3235, 65.7570, 18.9106



16.3609, 19.3592, 22.7274



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.



50.0201, 70.7505, 89.6184



54.0994, 79.0287, 100.6795



33.8029, 36.9047, 88.5638



16.2199, 17.9180, 20.1809



24.9560, 37.2744, 47.2787



2.0841, 3.1041, 3.9755



# Inverse Universe

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



41.1745, 25.6107, 12.2268



43.3861, 24.1958, 6.8271



49.4118, 42.4725, 13.7791



15.7971, 15.7686, 16.4879



19.7097, 10.1563, 1.1218

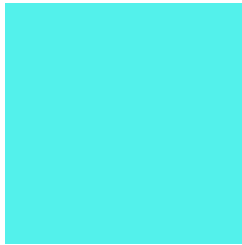


1.6482, 0.8483, 0.1381



# Previews

## White Background



This preview shows how the XYZ color 50.0180, 70.7478, 89.6167 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

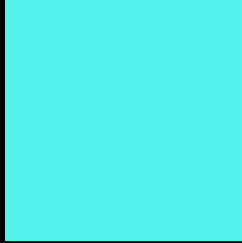
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.0180, 70.7478, 89.6167 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

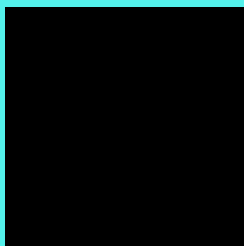
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

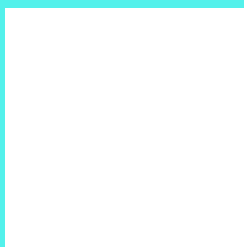
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 50.0180, 70.7478, 89.6167

## Background



This preview shows how black text looks on a background with the XYZ color 50.0180, 70.7478, 89.6167.



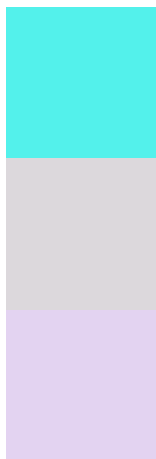
This preview shows how white text looks on a background with the XYZ color 50.0180, 70.7478,



# 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

50.0180, 70.7478, 89.6167

### Protanopia

66.9893, 69.4947, 77.5932

### Deuteranopia

70.8500, 69.2703, 92.8554



## Tritanopia

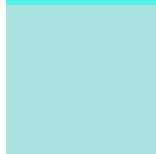
54.1599, 70.7916, 105.4174

# Trichromacy



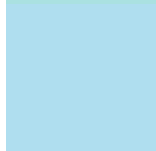
## Original Color

50.0180, 70.7478, 89.6167



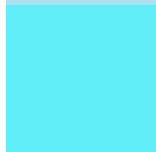
## Protanomaly

57.0934, 67.8327, 81.3180



## Deuteranomaly

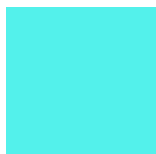
59.3805, 67.5885, 91.5776



## Tritanomaly

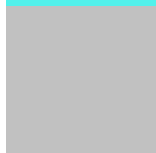
52.4476, 70.4678, 99.6443

# Monochromacy



## Original Color

50.0180, 70.7478, 89.6167



## Achromatopsia

50.6879, 53.3276, 58.0738



## Achromatomaly

47.5686, 57.4196, 68.2505

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.0180, 70.7478, 89.6167 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(83, 241, 235)` looks like.

```
.text, #text, p{  
    color:rgb(83, 241, 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(83, 241, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 241, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 50.0180, 70.7478, 89.6167 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(83, 241, 235) }
```



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

```
.border{ border-color:rgb(83, 241, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 241, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 241, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 241, 235);  
box-shadow:4px 4px 4px 4px rgb(83, 241,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.0180, 70.7478, 89.6167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 241, 235) }
```

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

```
.background{ background-color: rgb(83, 241,  
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](#).

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