

Converting Colors

XYZ(49.6917, 70.4392, 86.8085)

Have a look what the booklet for
XYZ(49.6917, 70.4392, 86.8085)
contains.

XYZ(49.8096, 70.7064, 86.6238)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(49.8096, 70.7064,
86.6238)**

Conversions

Conversions Part 1

Format	Color
Hex	57F1E7
RGB	87, 241, 231
RGB Percent	34%, 95%, 91%
CMY	0.6588, 0.0549, 0.0941
CMYK	0.64, 0.00, 0.04, 0.05
HSL	176°, 85%, 64%
HSV	176°, 64%, 95%
XYZ	49.8096, 70.7064, 86.6238
YIQ	193.8140, -88.5740, -35.7580

Conversions

Conversions Part 2

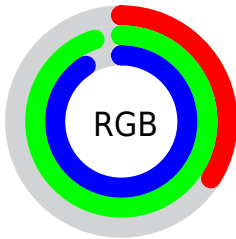
Format	Color
R _Y B	87, 167, 241
Decimal	5763559
CIE Lab	87.34, -42.33, -7.14
CIE LCh	87, 42.925, 189.580
Yxy	70.7064, 0.2405, 0.3413
Android (android.graphics.Color)	4283953639 (0xFF57F1E7)
YUV	193.8140, 18.3327, -93.6759
Hunter-Lab	84.0871, -41.4167, -2.2177

Details

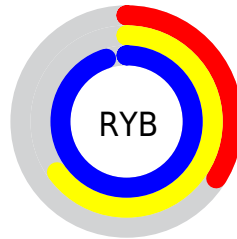
The XYZ color **49.8096, 70.7064, 86.6238** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light muted cyan. A complement of this color would be **41.8439, 26.3823, 14.1985**, and the grayscale version is **51.1030, 53.7644, 58.5494**.

A 20% lighter version of the original color is **66.9469, 85.5123, 107.5848**, and **24.9770, 37.4156, 46.9798** is the 20% darker color. If you saturate the color by 10%, you get **47.7043, 69.6481, 85.3778**, and if you desaturate by 10%, it is **52.6718, 72.1579, 87.9187**.

Distribution



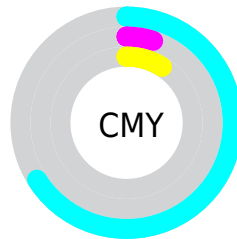
- Red (34%)
- Green (95%)
- Blue (91%)



- Red (34%)
- Yellow (65%)
- Blue (95%)



- Cyan (64%)
- Magenta (0%)
- Yellow (4%)
- Black (5%)



- Cyan (66%)
- Magenta (5%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 49.8096, 70.7064, 86.6238 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 49.8096, 70.7064, 86.6238 by changing the saturation by 10% instead.

49.8096, 70.7064,
86.6238

49.8096, 70.7064,
86.6238

376.3852,
463.0264, 537.2700

35.4793, 52.1026,
64.6261

89.0862, 120.2156,
144.5339

24.2006, 37.0869,
46.7085

114.7633,
151.8898, 181.2834

15.6080, 25.2748,
32.4526

144.9533,
188.6896, 223.7872

9.3363, 16.2819,
21.4398

180.0216,
230.9994, 272.4638

5.0200, 9.7238,
13.2515

220.3336,
279.2036, 327.7319

2.2939, 5.2162,
7.4692

266.2546,

0.7915, 2.3747,

333.6865, 390.0099

3.6743

318.1500,
394.8327, 459.7164

0.0000, 0.8128,
1.4484

0.0000, 0.0000,
0.1791

49.8096, 70.7064,
86.6238

49.8096, 70.7064,
86.6238

47.7043, 69.6481,
85.3778

52.6718, 72.1579,
87.9187

46.2715, 68.9347,
84.1720


56.3520, 74.0292,
89.2607

45.4182, 68.5198,
83.0035


60.9123, 76.3540,
90.6542


45.0949, 68.3683,
82.3048


66.4069, 79.1602,
92.1019

 72.8858, 82.4737,
93.6060

 80.3954, 86.3182,
95.1688

 88.7173, 90.5812,
96.7802

 88.9534, 90.6757,
98.0236

 89.1916, 90.7709,
99.2777

Harmonies

Analogous

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



50.5916, 70.7064, 59.1602



49.8096, 70.7064, 86.6238



53.3148, 70.7064, 118.1599

Triad

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



49.8096, 70.7064, 86.6238



80.3589, 70.7064, 128.3275



74.2132, 70.7064, 35.7292

Complementary

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



49.8096, 70.7064, 86.6238



41.8439, 26.3823, 14.1985

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.



83.3181, 70.7064, 46.6984



49.8096, 70.7064, 86.6238



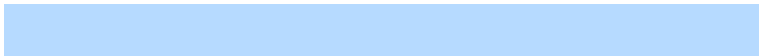
87.1056, 70.7064, 98.0777

Square

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



49.8096, 70.7064, 86.6238



70.4899, 70.7064, 145.9180



88.2397, 70.7064, 68.0933



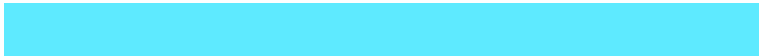
64.0225, 70.7064, 34.1232

Rectangle

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



49.8096, 70.7064, 86.6238



57.8393, 70.7064, 135.6273



88.2397, 70.7064, 68.0933



77.5293, 70.7064, 38.2833

Sweetspot

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



49.8117, 70.7091, 86.6255



78.9140, 91.7396, 105.5218



38.1361, 66.1576, 19.7782



16.4498, 19.4106, 22.4816



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.



49.8117, 70.7091, 86.6255



53.6071, 78.8648, 96.5961



34.9976, 38.7551, 88.8580



16.2005, 17.9102, 20.0785



24.4727, 37.0811, 44.7339



2.0492, 3.0901, 3.7914

Inverse Universe

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



41.8439, 26.3823, 14.1985



43.9363, 24.8122, 8.5028



49.5102, 42.4149, 14.5959



15.8144, 15.7755, 16.5790



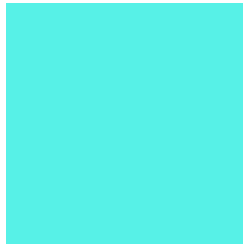
19.7374, 10.1674, 1.2676



1.6564, 0.8516, 0.1817

Previews

White Background



This preview shows how the XYZ color 49.8096, 70.7064, 86.6238 looks on a white background.

Color Contrast Check

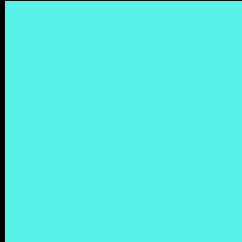
Large Text (above 18pt) WCAG AA × Fail

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 49.8096, 70.7064, 86.6238 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

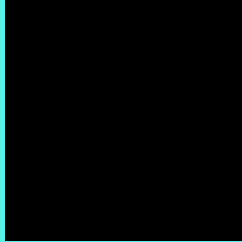
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

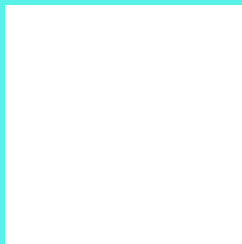
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 49.8096, 70.7064, 86.6238

Background



This preview shows how black text looks on a background with the XYZ color 49.8096, 70.7064, 86.6238.

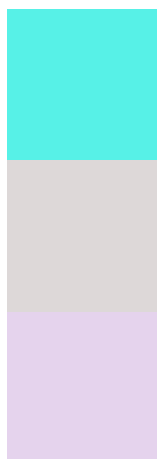


This preview shows how white text looks on a background with the XYZ color 49.8096, 70.7064,

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

49.8096, 70.7064, 86.6238

Protanopia

66.7693, 69.4418, 74.8502

Deuteranopia

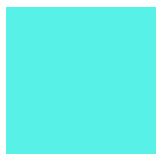
70.8934, 69.3610, 89.7723



Tritanopia

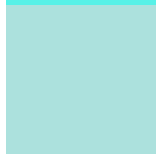
54.1089, 70.3367, 105.3322

Trichromacy



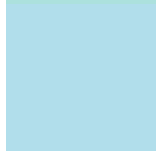
Original Color

49.8096, 70.7064, 86.6238



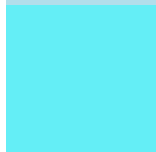
Protanomaly

56.9896, 67.8415, 78.4977



Deuteranomaly

59.2481, 67.5878, 88.5203



Tritanomaly

52.4646, 70.5122, 98.0338

Monochromacy



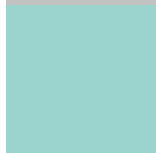
Original Color

49.8096, 70.7064, 86.6238



Achromatopsia

51.2775, 53.9479, 58.7493



Achromatomaly

48.0743, 58.0621, 67.7048

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.8096, 70.7064, 86.6238 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(87, 241, 231)` looks like.

```
.text, #text, p{  
    color:rgb(87, 241, 231)  
}
```

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(87, 241, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 241, 231) }
```

Border

The CSS property to change the border of an element to XYZ 49.8096, 70.7064, 86.6238 is called "border". The border property can be set on classes, ids or directly on the HTML element.

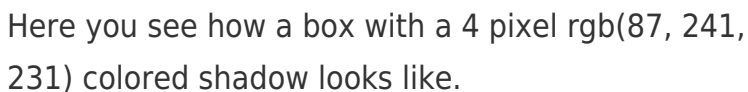
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(87, 241, 231) }
```


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

```
.border{ border-color:rgb(87, 241, 231) }
```

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



Here you see how a box with a 4 pixel `rgb(87, 241, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 241, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 241, 231);  
box-shadow:4px 4px 4px 4px rgb(87, 241,  
231) }
```

Background

The CSS property to change the background color of an element to XYZ 49.8096, 70.7064, 86.6238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 241, 231) }
```

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

```
.background{ background-color: rgb(87, 241,  
231) }
```

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