

Converting Colors

XYZ(50.2016, 69.1858, 87.4426)

Have a look what the booklet for
XYZ(50.2016, 69.1858, 87.4426)
contains.

XYZ(50.2477, 69.1609, 87.7919)	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(50.2477, 69.1609,
87.7919)**

Conversions

Conversions Part 1

Format	Color
Hex	64EDE9
RGB	100, 237, 233
RGB Percent	39%, 93%, 91%
CMY	0.6078, 0.0706, 0.0863
CMYK	0.58, 0.00, 0.02, 0.07
HSL	178°, 79%, 66%
HSV	178°, 58%, 93%
XYZ	50.2477, 69.1609, 87.7919
YIQ	195.5810, -80.3680, -30.2880

Conversions

Conversions Part 2

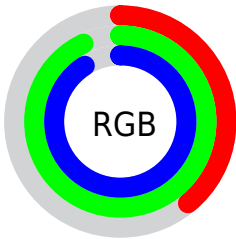
Format	Color
RYB	100, 170, 237
Decimal	6614505
CIELab	86.58, -37.88, -9.28
CIELCh	87, 38.999, 193.767
Yxy	69.1609, 0.2425, 0.3338
Android (android.graphics.Color)	4284804585 (0xFF64EDE9)
YUV	195.5810, 18.4476, -83.8245
Hunter-Lab	83.1630, -37.6843, -4.3760

Details

The XYZ color **50.2477, 69.1609, 87.7919** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **41.9832, 28.1204, 16.3140**, and the grayscale version is **52.1481, 54.8639, 59.7468**.

A 20% lighter version of the original color is **68.9143, 86.5265, 107.6769**, and **24.5223, 36.2543, 47.3003** is the 20% darker color. If you saturate the color by 10%, you get **47.8996, 67.9634, 87.1682**, and if you desaturate by 10%, it is **53.3625, 70.7568, 88.4566**.

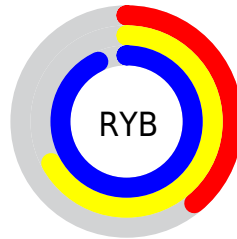
Distribution



Red (39%)

Green (93%)

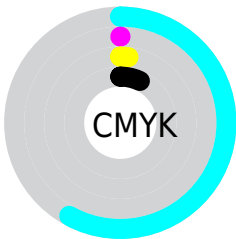
Blue (91%)



Red (39%)

Yellow (67%)

Blue (93%)

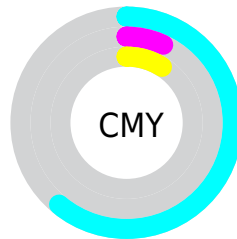


Cyan (58%)

Magenta (0%)

Yellow (2%)

Black (7%)



Cyan (61%)

Magenta (7%)

Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 50.2477, 69.1609, 87.7919 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 50.2477, 69.1609, 87.7919 by changing the saturation by 10% instead.

50.2477, 69.1609,
87.7919

50.2477, 69.1609,
87.7919

378.0698,
457.5983, 541.2051

35.8289, 50.8428,
65.5874

89.7314, 118.0114,
146.1760

24.4715, 36.0835,
47.4832

115.5270,
149.3125, 183.1926

15.8104, 24.4987,
33.0607

145.8455,
185.7100, 225.9838

9.4801, 15.7040,
21.9014

181.0523,
227.5884, 274.9679

5.1152, 9.3149,
13.5869

221.5128,
275.3320, 330.5635

2.3505, 4.9471,
7.6984

267.5923,

0.8203, 2.2163,

329.3253, 393.1893

3.8176

319.6562,
389.9526, 463.2636

■ 0.0000, 0.7289,
1.5258

■ 0.0000, 0.0000,
0.2371

■ 50.2477, 69.1609,
87.7919

■ 50.2477, 69.1609,
87.7919

■ 47.8996, 67.9634,
87.1682

■ 53.3625, 70.7568,
88.4566

■ 46.2440, 67.1213,
86.5774


■ 57.2979, 72.7741,
89.1602

■ 45.2025, 66.5957,
86.0174


■ 62.1101, 75.2433,
89.9068


■ 44.6660, 66.3304,
85.4830


■ 67.8485, 78.1899,
90.6988

 44.5795, 66.2882,
85.3673

 74.5588, 81.6376,
91.5384

 82.2838, 85.6083,
92.4274

 86.9356, 87.9947,
93.1747

 87.0375, 88.0354,
93.7111

 87.1397, 88.0763,
94.2495

Harmonies

Analogous

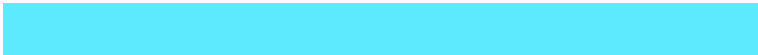
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



50.4098, 69.1609, 62.2205



50.2477, 69.1609, 87.7919



53.9578, 69.1609, 115.2844

Triad

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



50.2477, 69.1609, 87.7919



78.5158, 69.1609, 117.3090



70.7183, 69.1609, 36.8881

Complementary

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



50.2477, 69.1609, 87.7919



41.9832, 28.1204, 16.3140

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.



79.1129, 69.1609, 45.8356



50.2477, 69.1609, 87.7919



83.8893, 69.1609, 90.1049

Square

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



50.2477, 69.1609, 87.7919



69.9621, 69.1609, 134.7873



84.1174, 69.1609, 64.0611



61.6824, 69.1609, 36.5445

Rectangle

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



50.2477, 69.1609, 87.7919



58.3431, 69.1609, 129.4072



84.1174, 69.1609, 64.0611



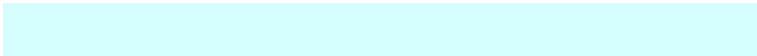
73.7271, 69.1609, 38.8769

Sweetspot

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



50.2498, 69.1635, 87.7935



80.6573, 92.6038, 107.1657



38.3615, 64.4683, 22.4800



16.9484, 19.6589, 22.8964



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.



50.2498, 69.1635, 87.7935



56.2220, 80.0778, 102.8208



35.5002, 38.7390, 85.7300



15.4976, 17.1138, 19.3030



24.3469, 36.1932, 46.6532



1.9178, 2.8444, 3.6951

Inverse Universe

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



41.9832, 28.1204, 16.3140



45.6473, 27.5023, 11.3292



50.4914, 45.4543, 18.1706



15.0833, 15.0612, 15.7240



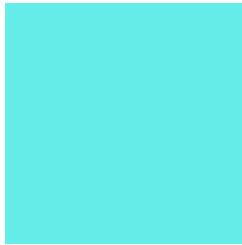
19.0968, 9.8414, 1.0449



1.5058, 0.7753, 0.1152

Previews

White Background



This preview shows how the XYZ color 50.2477, 69.1609, 87.7919 looks on a white background.

Color Contrast Check

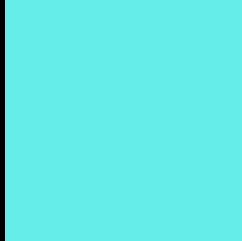
Large Text (above 18pt) WCAG AA × Fail

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 50.2477, 69.1609, 87.7919 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 50.2477, 69.1609, 87.7919

Background



This preview shows how black text looks on a background with the XYZ color 50.2477, 69.1609, 87.7919.

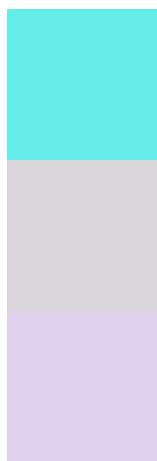


This preview shows how white text looks on a background with the XYZ color 50.2477, 69.1609,

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

50.2477, 69.1609, 87.7919

Protanopia

65.7462, 68.1130, 76.6998

Deuteranopia

69.4318, 67.8405, 91.0964



Tritanopia

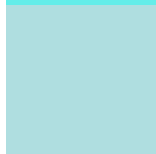
53.3368, 69.1256, 103.4599

Trichromacy



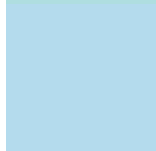
Original Color

50.2477, 69.1609, 87.7919



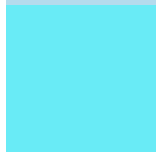
Protanomaly

57.2550, 66.7383, 80.3851



Deuteranomaly

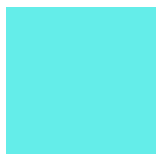
59.4400, 66.4808, 89.8200



Tritanomaly

52.1686, 69.0737, 97.7718

Monochromacy



Original Color

50.2477, 69.1609, 87.7919



Achromatopsia

52.4687, 55.2011, 60.1140



Achromatomaly

49.5008, 58.7690, 69.0562

CSS Examples

Text

The CSS property to change the color of the text to XYZ 50.2477, 69.1609, 87.7919 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(100, 237, 233)` looks like.

```
.text, #text, p{  
    color:rgb(100, 237, 233)  
}
```

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(100, 237, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 237, 233) }
```

Border

The CSS property to change the border of an element to XYZ 50.2477, 69.1609, 87.7919 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(100, 237, 233) }
```


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

```
.border{ border-color:rgb(100, 237, 233) }
```

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

Here you see how a box with a 4 pixel rgb(100, 237, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 237, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 237, 233);  
box-shadow:4px 4px 4px 4px rgb(100, 237,  
233) }
```

Background

The CSS property to change the background color of an element to XYZ 50.2477, 69.1609, 87.7919 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 237, 233) }
```

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

```
.background{ background-color: rgb(100,  
237, 233) }
```

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