

Converting Colors

XYZ(45.5827, 66.4271, 79.1056)

Have a look what the booklet for
XYZ(45.5827, 66.4271, 79.1056)
contains.

XYZ(45.5724, 66.5135, 78.8431)	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(45.5724, 66.5135,
78.8431)**

Conversions

Conversions Part 1

Format	Color
Hex	46ECDD
RGB	70, 236, 221
RGB Percent	27%, 93%, 87%
CMY	0.7255, 0.0745, 0.1333
CMYK	0.70, 0.00, 0.06, 0.07
HSL	175°, 81%, 60%
HSV	175°, 70%, 93%
XYZ	45.5724, 66.5135, 78.8431
YIQ	184.6560, -94.1210, -39.8570

Conversions

Conversions Part 2

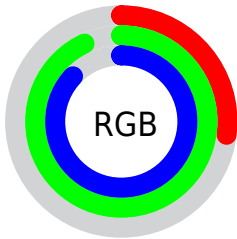
Format	Color
RYB	70, 157, 236
Decimal	4648157
CIELab	85.26, -45.11, -5.01
CIELCh	85, 45.390, 186.343
Yxy	66.5135, 0.2387, 0.3484
Android (android.graphics.Color)	4282838237 (0xFF46ECDD)
YUV	184.6560, 17.9176, -100.5533
Hunter-Lab	81.5558, -42.9790, -0.2288

Details

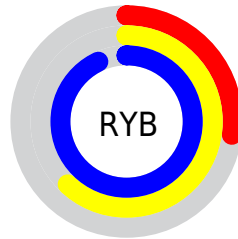
The XYZ color **45.5724, 66.5135, 78.8431** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light muted cyan. A complement of this color would be **38.4242, 22.8710, 10.9860**, and the grayscale version is **45.8665, 48.2551, 52.5498**.

A 20% lighter version of the original color is **64.6252, 84.3154, 107.4761**, and **23.0030, 34.9934, 41.6184** is the 20% darker color. If you saturate the color by 10%, you get **43.9107, 65.6910, 77.2926**, and if you desaturate by 10%, it is **47.9101, 67.6871, 80.4470**.

Distribution



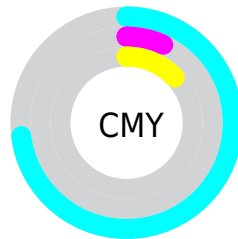
- Red (27%)
- Green (93%)
- Blue (87%)



- Red (27%)
- Yellow (62%)
- Blue (93%)



- Cyan (70%)
- Magenta (0%)
- Yellow (6%)
- Black (7%)





- Cyan (73%)
- Magenta (7%)
- Yellow (13%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 45.5724, 66.5135, 78.8431 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 45.5724, 66.5135, 78.8431 by changing the saturation by 10% instead.


 45.5724, 66.5135,
78.8431


 45.5724, 66.5135,
78.8431


359.8317,
448.2111, 510.6290


 32.1117, 48.6894,
58.2463


 82.8105, 114.2230,
133.5346


 21.6028, 34.3731,
41.5906


 107.3186,
144.8772, 168.4664

 13.6803, 23.1804,
28.4577


 136.2399,
180.5769, 209.0135

 7.9789, 14.7268,
18.4289

 169.9397,
221.7064, 255.5946

 4.1331, 8.6278,
11.0858

208.7835,
268.6502, 308.6281

 1.7777, 4.4992,
6.0097

253.1365,

 0.5042, 1.9566,

321.7926, 368.5327

2.7821

303.3641,
381.5181, 435.7268

■ 0.0000, 0.5821,
0.9845

■ 0.0000, 0.0000,
0.0000

■ 45.5724, 66.5135,
78.8431

■ 45.5724, 66.5135,
78.8431

■ 43.9107, 65.6910,
77.2926

■ 47.9101, 67.6871,
80.4470


■ 42.8356, 65.1690,
75.7869


■ 50.9880, 69.2404,
82.1031


■ 42.2205, 64.8826,
74.3693


■ 54.8693, 71.2074,
83.8157


■ 59.6087, 73.6163,
85.5875

 65.2564, 76.4931,
87.4209

 71.8584, 79.8614,
89.3182

 79.4579, 83.7435,
91.2814

 86.6787, 87.4299,
93.2463

 86.9941, 87.5561,
94.9073

Harmonies

Analogous

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



46.8192, 66.5135, 52.0378



45.5724, 66.5135, 78.8431



48.6255, 66.5135, 111.3195

Triad

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



45.5724, 66.5135, 78.8431



75.6428, 66.5135, 128.1157



71.4685, 66.5135, 32.0251

Complementary

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



45.5724, 66.5135, 78.8431



38.4242, 22.8710, 10.9860

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.



80.4744, 66.5135, 43.8396



45.5724, 66.5135, 78.8431



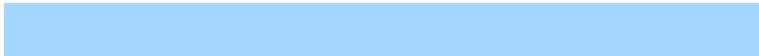
83.0609, 66.5135, 97.5355

Square

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



45.5724, 66.5135, 78.8431



65.4231, 66.5135, 144.3202



84.9181, 66.5135, 66.3592



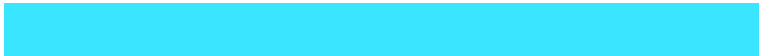
61.0651, 66.5135, 29.5377

Rectangle

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



45.5724, 66.5135, 78.8431



52.9056, 66.5135, 130.3492



84.9181, 66.5135, 66.3592



74.7927, 66.5135, 34.8449

Sweetspot

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



45.5743, 66.5160, 78.8447



77.2490, 90.9122, 104.0507



34.9963, 62.4428, 16.0040



16.1160, 19.2457, 22.1401



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.



45.5743, 66.5160, 78.8447



51.7547, 78.0226, 91.4161



31.9683, 35.9607, 84.6159



15.4555, 17.0970, 19.0817



23.2971, 35.7733, 41.1253



1.8466, 2.8160, 3.3200

Inverse Universe

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



38.4242, 22.8710, 10.9860



42.8459, 23.1600, 6.5091



44.5607, 35.9990, 10.3958



15.1207, 15.0761, 15.9211



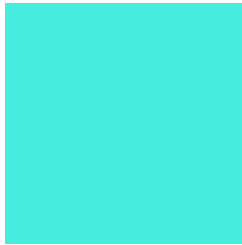
19.1640, 9.8683, 1.3993



1.5238, 0.7825, 0.2097

Previews

White Background



This preview shows how the XYZ color 45.5724, 66.5135, 78.8431 looks on a white background.

Color Contrast Check

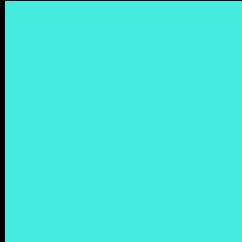
Large Text (above 18pt) WCAG AA × Fail

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 45.5724, 66.5135, 78.8431 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

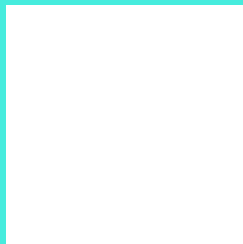
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 45.5724, 66.5135, 78.8431

Background



This preview shows how black text looks on a background with the XYZ color 45.5724, 66.5135, 78.8431.

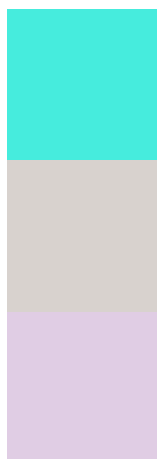


This preview shows how white text looks on a background with the XYZ color 45.5724, 66.5135,

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

45.5724, 66.5135, 78.8431

Protanopia

62.5061, 65.1483, 67.6730

Deuteranopia

66.5754, 65.1114, 82.4576



Tritanopia

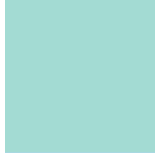
49.9497, 66.5938, 100.6637

Trichromacy



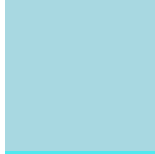
Original Color

45.5724, 66.5135, 78.8431



Protanomaly

52.1936, 63.1527, 71.0668



Deuteranomaly

54.2949, 62.8728, 80.5082



Tritanomaly

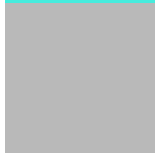
48.0272, 66.2153, 91.9109

Monochromacy



Original Color

45.5724, 66.5135, 78.8431



Achromatopsia

46.1135, 48.5150, 52.8328



Achromatomaly

43.1136, 53.1026, 61.4036

CSS Examples

Text

The CSS property to change the color of the text to XYZ 45.5724, 66.5135, 78.8431 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(70, 236, 221)` looks like.

```
.text, #text, p{  
    color:rgb(70, 236, 221)  
}
```

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(70, 236, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 236, 221) }
```

Border

The CSS property to change the border of an element to XYZ 45.5724, 66.5135, 78.8431 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(70, 236, 221) }
```


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

```
.border{ border-color:rgb(70, 236, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 236, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 236, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 236, 221);  
box-shadow:4px 4px 4px 4px rgb(70, 236,  
221) }
```

Background

The CSS property to change the background color of an element to XYZ 45.5724, 66.5135, 78.8431 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 236, 221) }
```

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

```
.background{ background-color: rgb(70, 236,  
221) }
```

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