

# Converting Colors

XYZ(51.2514, 78.0615, 77.7069)

Have a look what the booklet for  
XYZ(51.2514, 78.0615, 77.7069)  
contains.

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# Color

**XYZ(51.3450, 78.1075,  
78.0157)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DFFD9
RGB	77, 255, 217
RGB Percent	30%, 100%, 85%
CMY	0.6980, 0.0000, 0.1490
CMYK	0.70, 0.00, 0.15, 0.00
HSL	167°, 100%, 65%
HSV	167°, 70%, 100%
XYZ	51.3450, 78.1075, 78.0157
YIQ	197.4460, -93.8900, -49.5540

# Conversions

## Conversions Part 2

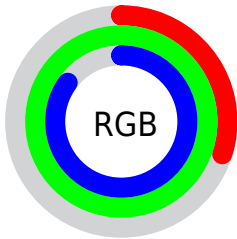
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">77, 177, 255</a>
Decimal	<a href="#">5111769</a>
CIELab	<a href="#">90.83, -53.26, 5.22</a>
CIELCh	<a href="#">91, 53.510, 174.400</a>
Yxy	<a href="#">78.1075, 0.2475, 0.3765</a>
Android (android.graphics.Color)	<a href="#">4283301849 (0xFF4DFFD9)</a>
YUV	<a href="#">197.4460, 9.6401, -105.6311</a>
Hunter-Lab	<a href="#">88.3784, -50.9596, 9.5269</a>

# Details

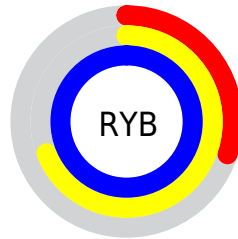
The XYZ color **51.3450, 78.1075, 78.0157** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light washed cyan. A complement of this color would be **46.9894, 27.8070, 19.1125**, and the grayscale version is **53.3259, 56.1030, 61.0961**.

A 20% lighter version of the original color is **65.8426, 84.9430, 107.5331**, and **26.4878, 42.5411, 40.9976** is the 20% darker color. If you saturate the color by 10%, you get **48.9790, 76.9683, 74.2704**, and if you desaturate by 10%, it is **54.5420, 79.6725, 81.9246**.

# Distribution



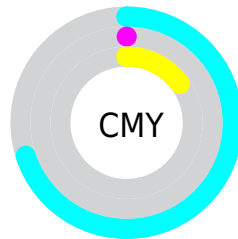
- Red (30%)
- Green (100%)
- Blue (85%)



- Red (30%)
- Yellow (69%)
- Blue (100%)



- Cyan (70%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)




- Cyan (70%)
- Magenta (0%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.3450, 78.1075, 78.0157 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 51.3450, 78.1075, 78.0157 by changing the saturation by 10% instead.





 51.3450, 78.1075,  
78.0157


 51.3450, 78.1075,  
78.0157


382.2683,  
488.5318, 507.7495

 36.7054, 58.1623,  
57.5704


 91.3445, 130.7017,  
132.3583


 25.1521, 41.9391,  
41.0509


 117.4351,  
164.1194, 167.0927

 16.3198, 29.0536,  
28.0389


 148.0734,  
202.7967, 207.4271

 9.8430, 19.1214,  
18.1157

 183.6248,  
247.1181, 253.7802

 5.3564, 11.7580,  
10.8628

224.4547,  
297.4679, 306.5704

 2.4948, 6.5791,  
5.8616

270.9283,

 0.8926, 3.2003,

354.2306, 366.2163

2.6937

323.4111,  
417.7904, 433.1365

0.0000, 1.2372,  
0.9403

0.0000, 0.0918,  
0.0000

51.3450, 78.1075,  
78.0157

51.3450, 78.1075,  
78.0157

48.9790, 76.9683,  
74.2704

54.5420, 79.6725,  
81.9246

47.3407, 76.2015,  
70.6786

58.6517, 81.7052,  
85.9979

46.2703, 75.7248,  
67.2330

63.7488, 84.2442,  
90.2416

46.2511, 75.7165,  
67.1655

69.8996, 87.3236,  
94.6599

■ 77.1643, 90.9745,  
99.2569

■ 85.5988, 95.2256,  
104.0360

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



55.1204, 78.1075, 48.7830



51.3450, 78.1075, 78.0157



53.0753, 78.1075, 119.4881

# Triad

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



51.3450, 78.1075, 78.0157



85.4521, 78.1075, 171.9826



90.3473, 78.1075, 37.8925

# Complementary

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



51.3450, 78.1075, 78.0157



46.9894, 27.8070, 19.1125

# 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.



100.3911, 78.1075, 57.9533



51.3450, 78.1075, 78.0157



97.3342, 78.1075, 135.9031

# Square

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



51.3450, 78.1075, 78.0157



71.7417, 78.1075, 182.1996



103.0907, 78.1075, 92.4860



76.7932, 78.1075, 30.5503



# Rectangle

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



51.3450, 78.1075, 78.0157



57.2400, 78.1075, 148.1625



103.0907, 78.1075, 92.4860



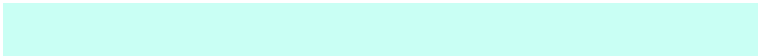
94.3083, 78.1075, 43.0122

# Sweetspot

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



51.3459, 78.1080, 78.0171



76.2321, 90.5054, 98.6959



44.2458, 75.7398, 19.3101



15.8711, 19.1477, 20.8507



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.



51.3459, 78.1080, 78.0171



48.2088, 76.6042, 72.7435



42.8397, 52.2550, 102.4361



18.3790, 20.4111, 22.2989



24.2244, 39.5864, 35.3966



2.3981, 3.8702, 3.6541



# Inverse Universe

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



46.9894, 27.8070, 19.1125



43.7271, 23.5125, 11.1498



50.2262, 37.0886, 11.5345



18.1680, 18.0505, 19.5020



21.9460, 11.2677, 3.1004

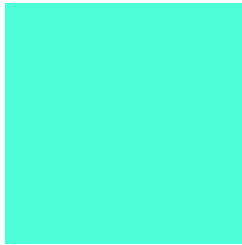


2.1748, 1.1123, 0.5018



# Previews

## White Background



This preview shows how the XYZ color 51.3450, 78.1075, 78.0157 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

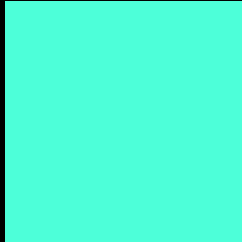
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.3450, 78.1075, 78.0157 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

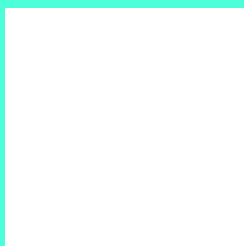
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 51.3450, 78.1075, 78.0157**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.3450, 78.1075, 78.0157.



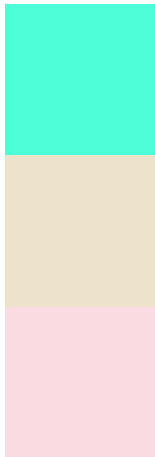
This preview shows how white text looks on a background with the XYZ color 51.3450, 78.1075,



# 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

51.3450, 78.1075, 78.0157

### Protanopia

72.7821, 76.6615, 66.8382

### Deuteranopia

77.9890, 76.2390, 81.8393



## Tritanopia

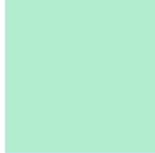
63.6058, 77.3997, 106.1950

# Trichromacy



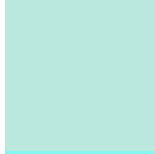
## Original Color

51.3450, 78.1075, 78.0157



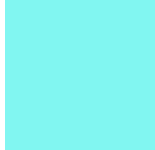
## Protanomaly

60.1371, 74.6571, 70.2722



## Deuteranomaly

62.2911, 73.4263, 79.9968



## Tritanomaly

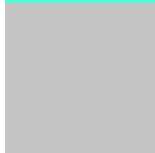
57.8862, 76.9295, 95.0171

# Monochromacy



## Original Color

51.3450, 78.1075, 78.0157



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

49.1074, 61.2747, 66.3657

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.3450, 78.1075, 78.0157 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(77, 255, 217)` looks like.

```
.text, #text, p{  
    color:rgb(77, 255, 217)  
}
```

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(77, 255, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 255, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 51.3450, 78.1075, 78.0157 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(77, 255, 217) }
```



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

```
.border{ border-color:rgb(77, 255, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 255, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 255, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 255, 217);  
box-shadow:4px 4px 4px 4px rgb(77, 255,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.3450, 78.1075, 78.0157 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 255, 217) }
```

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

```
.background{ background-color: rgb(77, 255,  
217) }
```

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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