

# Converting Colors

XYZ(50.0120, 77.4650, 75.9347)

Have a look what the booklet for  
XYZ(50.0120, 77.4650, 75.9347)  
contains.

<b>XYZ(50.0120, 77.4650, 75.9347)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(50.0120, 77.4650,  
75.9347)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40FFD6
RGB	64, 255, 214
RGB Percent	25%, 100%, 84%
CMY	0.7490, 0.0000, 0.1608
CMYK	0.75, 0.00, 0.16, 0.00
HSL	167°, 100%, 63%
HSV	167°, 75%, 100%
XYZ	50.0120, 77.4650, 75.9347
YIQ	193.2170, -100.6750, -53.2430

# Conversions

## Conversions Part 2

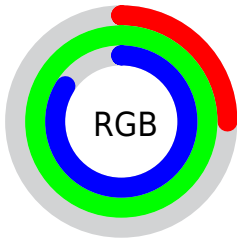
Format	Color
<a href="#">RYB</a>	<a href="#">64, 171, 255</a>
Decimal	<a href="#">4259798</a>
CIELab	<a href="#">90.54, -55.54, 6.32</a>
CIELCh	<a href="#">91, 55.902, 173.508</a>
Yxy	<a href="#">77.4650, 0.2459, 0.3808</a>
Android (android.graphics.Color)	<a href="#">4282449878</a> ( <a href="#">0xFF40FFD6</a> )
YUV	<a href="#">193.2170, 10.2460, -113.3233</a>
Hunter-Lab	<a href="#">88.0142, -52.5964, 10.4572</a>

# Details

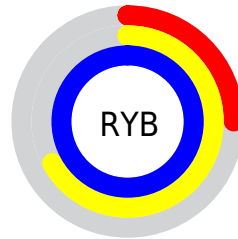
The XYZ color **50.0120, 77.4650, 75.9347** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **45.6243, 25.9481, 15.9708**, and the grayscale version is **50.8017, 53.4473, 58.2041**.

A 20% lighter version of the original color is **64.4575, 84.2290, 107.4683**, and **26.2243, 42.4357, 39.6096** is the 20% darker color. If you saturate the color by 10%, you get **48.0286, 76.5220, 72.2547**, and if you desaturate by 10%, it is **52.7780, 78.8088, 79.7767**.

# Distribution



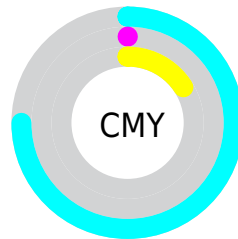
- Red (25%)
- Green (100%)
- Blue (84%)



- Red (25%)
- Yellow (67%)
- Blue (100%)



- Cyan (75%)
- Magenta (0%)
- Yellow (16%)
- Black (0%)




- Cyan (75%)
- Magenta (0%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.0120, 77.4650, 75.9347 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 50.0120, 77.4650, 75.9347 by changing the saturation by 10% instead.





 50.0120, 77.4650,  
75.9347


 50.0120, 77.4650,  
75.9347


377.1641,  
486.3480, 500.4650


 35.6408, 57.6346,  
55.8726


 89.3844, 129.7957,  
129.3938


 24.3257, 41.5150,  
39.6975


 115.1162,  
163.0647, 163.6280

 15.7014, 28.7217,  
26.9908


 145.3657,  
201.5821, 203.4232

 9.4026, 18.8704,  
17.3339

 180.4980,  
245.7322, 249.1981

 5.0639, 11.5767,  
10.3084

220.8787,  
295.8995, 301.3712

 2.3200, 6.4561,  
5.4956

266.8730,

 0.8049, 3.1244,

352.4683, 360.3610

2.4771

318.8464,  
415.8230, 426.5861

■ 0.0000, 1.1970,  
0.8280

■ 0.0000, 0.0593,  
0.0000

■ 50.0120, 77.4650,  
75.9347

■ 50.0120, 77.4650,  
75.9347

■ 48.0286, 76.5220,  
72.2547

■ 52.7780, 78.8088,  
79.7767

■ 46.7121, 75.9200,  
68.7259

■ 56.4154, 80.5991,  
83.7820

■ 46.2159, 75.7024,  
66.9801

■ 61.0040, 82.8769,  
87.9568

■ 66.6136, 85.6783,  
92.3055

■ 73.3073, 89.0358,  
96.8321

■ 81.1431, 92.9792,  
101.5406

■ 90.1748, 97.5363,  
106.4344

■ 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.



54.0570, 77.4650, 46.3361



50.0120, 77.4650, 75.9347



51.6201, 77.4650, 118.9434

# Triad

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



50.0120, 77.4650, 75.9347



84.8830, 77.4650, 176.5082



90.8058, 77.4650, 36.3471

# Complementary

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



50.0120, 77.4650, 75.9347



45.6243, 25.9481, 15.9708

# 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.



101.1416, 77.4650, 57.2068



50.0120, 77.4650, 75.9347



97.4307, 77.4650, 138.9357

# Square

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



50.0120, 77.4650, 75.9347



70.6293, 77.4650, 186.3337



103.7077, 77.4650, 93.3570



76.7107, 77.4650, 28.6351



# Rectangle

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



50.0120, 77.4650, 75.9347



55.7966, 77.4650, 149.2490



103.7077, 77.4650, 93.3570



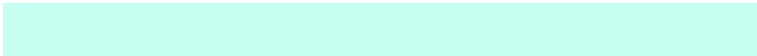
94.9037, 77.4650, 41.6608

# Sweetspot

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



50.0129, 77.4655, 75.9361



75.4579, 90.1169, 98.1776



42.5575, 74.9173, 17.0696



15.7197, 19.0719, 20.7444



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.



50.0129, 77.4655, 75.9361



47.2818, 76.1765, 70.4356



41.0252, 50.0307, 102.1024



18.3781, 20.4108, 22.2938



24.2062, 39.5791, 35.3007



2.3965, 3.8695, 3.6456



# Inverse Universe

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



45.6243, 25.9481, 15.9708



42.8604, 22.4816, 8.6949



48.6588, 34.6165, 8.9691



18.1689, 18.0509, 19.5067



21.9500, 11.2693, 3.1211

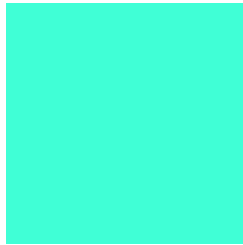


2.1753, 1.1125, 0.5044



# Previews

## White Background



This preview shows how the XYZ color 50.0120, 77.4650, 75.9347 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

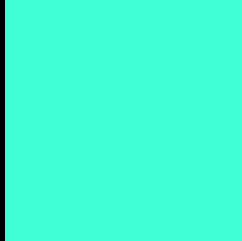
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.0120, 77.4650, 75.9347 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

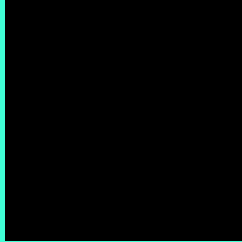
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

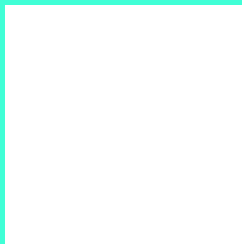
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 50.0120, 77.4650, 75.9347

## Background



This preview shows how black text looks on a background with the XYZ color 50.0120, 77.4650, 75.9347.



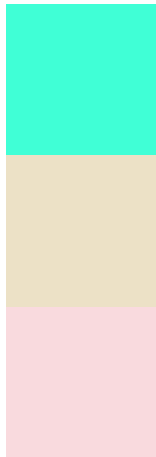
This preview shows how white text looks on a background with the XYZ color 50.0120, 77.4650,



# 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

50.0120, 77.4650, 75.9347

### Protanopia

71.7103, 75.7605, 64.2698

### Deuteranopia

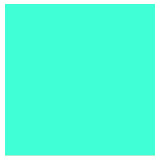
77.3231, 75.5565, 79.6157



## Tritanopia

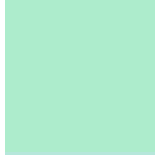
62.4542, 76.8060, 106.1411

# Trichromacy



## Original Color

50.0120, 77.4650, 75.9347



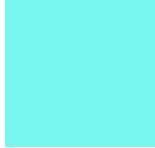
## Protanomaly

58.1281, 73.2348, 68.1988



## Deuteranomaly

60.6535, 72.2114, 77.7592



## Tritanomaly

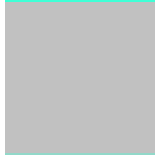
56.4297, 76.1959, 94.1712

# Monochromacy



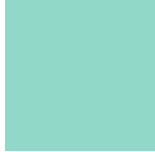
## Original Color

50.0120, 77.4650, 75.9347



## Achromatopsia

50.6879, 53.3276, 58.0738



## Achromatomaly

46.9525, 59.4398, 64.2567

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.0120, 77.4650, 75.9347 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(64, 255, 214)` looks like.

```
.text, #text, p{  
    color:rgb(64, 255, 214)  
}
```

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(64, 255, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 255, 214) }
```

## Border

The CSS property to change the border of an element to XYZ 50.0120, 77.4650, 75.9347 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(64, 255, 214) }
```



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

```
.border{ border-color:rgb(64, 255, 214) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 255, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 255, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 255, 214);  
box-shadow:4px 4px 4px 4px rgb(64, 255,  
214) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.0120, 77.4650, 75.9347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 255, 214) }
```

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

```
.background{ background-color: rgb(64, 255,  
214) }
```

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