

# Converting Colors

XYZ(50.2300, 77.5304, 78.0724)

Have a look what the booklet for  
XYZ(50.2300, 77.5304, 78.0724)  
contains.

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# Color

**XYZ(50.2089, 77.5219,  
77.9626)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3DFFD9
RGB	61, 255, 217
RGB Percent	24%, 100%, 85%
CMY	0.7607, 0.0000, 0.1490
CMYK	0.76, 0.00, 0.15, 0.00
HSL	168°, 100%, 62%
HSV	168°, 76%, 100%
XYZ	50.2089, 77.5219, 77.9626
YIQ	192.6620, -103.4260, -52.9460

# Conversions

## Conversions Part 2

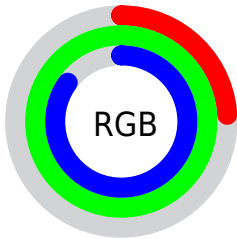
Format	Color
<b>RYB</b>	61, 169, 255
Decimal	4063193
CIELab	90.56, -55.13, 4.80
CIELCh	91, 55.336, 175.023
Yxy	77.5219, 0.2441, 0.3769
Android (android.graphics.Color)	4282253273 (0xFF3DFFD9)
YUV	192.6620, 11.9986, -115.4676
Hunter-Lab	88.0465, -52.2910, 9.1330

# Details

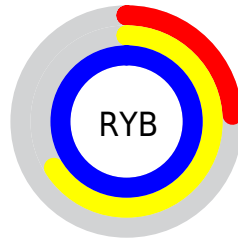
The XYZ color **50.2089, 77.5219, 77.9626** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **45.1619, 25.4997, 14.3483**, and the grayscale version is **50.4670, 53.0952, 57.8207**.

A 20% lighter version of the original color is **64.1265, 84.0584, 107.4528**, and **26.4878, 42.5411, 40.9976** is the 20% darker color. If you saturate the color by 10%, you get **48.3552, 76.6402, 74.5365**, and if you desaturate by 10%, it is **52.8294, 78.7965, 81.5299**.

# Distribution



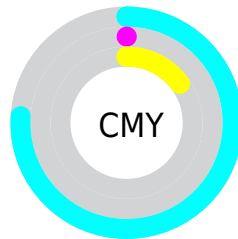
- Red (24%)
- Green (100%)
- Blue (85%)



- Red (24%)
- Yellow (66%)
- Blue (100%)



- Cyan (76%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)




- Cyan (76%)
- Magenta (0%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.2089, 77.5219, 77.9626 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 50.2089, 77.5219, 77.9626 by changing the saturation by 10% instead.




 50.2089, 77.5219,  
77.9626


 50.2089, 77.5219,  
77.9626


377.9208,  
486.5416, 507.5644


 35.7979, 57.6813,  
57.5270


 89.6743, 129.8759,  
132.2828


 24.4475, 41.5525,  
41.0163


 115.4594,  
163.1582, 167.0044

 15.7925, 28.7511,  
28.0120


 145.7665,  
201.6898, 207.3252

 9.4673, 18.8926,  
18.0956

 180.9611,  
245.8551, 253.6636

 5.1068, 11.5927,  
10.8485

221.4085,  
296.0385, 306.4382

 2.3454, 6.4670,  
5.8522

267.4740,

 0.8178, 3.1311,

352.6245, 366.0675

2.6881

319.5230,  
415.9974, 432.9700

■ 0.0000, 1.2005,  
0.9374

■ 0.0000, 0.0621,  
0.0000

■ 50.2089, 77.5219,  
77.9626

■ 50.2089, 77.5219,  
77.9626

■ 48.3552, 76.6402,  
74.5365

■ 52.8294, 78.7965,  
81.5299


■ 47.1493, 76.0902,  
71.2412


■ 56.3075, 80.5111,  
85.2395


■ 46.7857, 75.9303,  
69.9803


■ 60.7241, 82.7071,  
89.0975

■ 66.1499, 85.4210,  
93.1080

 72.6486, 88.6858,  
97.2748

 80.2788, 92.5314,  
101.6016

 89.0947, 96.9859,  
106.0916

 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.



53.9448, 77.5219, 47.8017



50.2089, 77.5219, 77.9626



52.0897, 77.5219, 120.9521

# Triad

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



50.2089, 77.5219, 77.9626



85.5301, 77.5219, 174.0944



90.0268, 77.5219, 36.0694

# Complementary

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



50.2089, 77.5219, 77.9626



45.1619, 25.4997, 14.3483

# 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.



100.5434, 77.5219, 56.0837



50.2089, 77.5219, 77.9626



97.7276, 77.5219, 136.1118

# Square

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



50.2089, 77.5219, 77.9626



71.3959, 77.5219, 185.4665



103.5239, 77.5219, 91.1996



76.0169, 77.5219, 28.9457



# Rectangle

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



50.2089, 77.5219, 77.9626



56.4165, 77.5219, 150.6700



103.5239, 77.5219, 91.1996



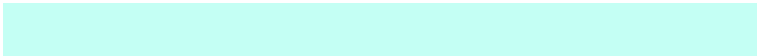
94.1537, 77.5219, 41.1355

# Sweetspot

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



50.2098, 77.5223, 77.9640



74.8712, 89.8048, 98.5878



41.8370, 74.5555, 16.6020



15.4688, 18.9417, 20.7719



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.



50.2098, 77.5223, 77.9640



47.6887, 76.3322, 72.8973



39.8968, 48.0557, 101.7806



18.3933, 20.4169, 22.3743



24.5005, 39.6968, 36.8505



2.4227, 3.8800, 3.7837



# Inverse Universe

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



45.1619, 25.4997, 14.3483



42.6011, 22.2931, 7.5913



48.7042, 34.8402, 8.5743



18.1548, 18.0452, 19.4322



21.8900, 11.2453, 2.8053

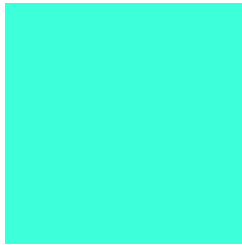


2.1675, 1.1094, 0.4635



# Previews

## White Background



This preview shows how the XYZ color 50.2089, 77.5219, 77.9626 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

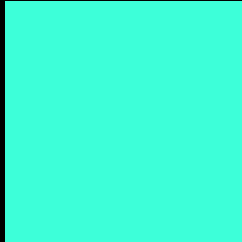
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.2089, 77.5219, 77.9626 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

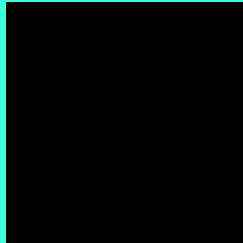
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

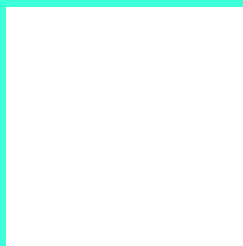
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 50.2089, 77.5219, 77.9626**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.2089, 77.5219, 77.9626.



This preview shows how white text looks on a background with the XYZ color 50.2089, 77.5219,



# Color Blindness Simulation

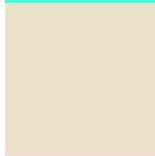
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



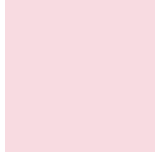
### Original Color

50.2089, 77.5219, 77.9626



### Protanopia

72.0599, 75.9003, 66.1106



### Deuteranopia

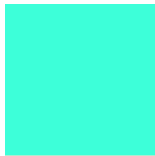
77.6335, 76.0557, 81.8227



## Tritanopia

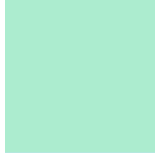
62.4542, 76.8060, 106.1411

# Trichromacy



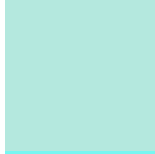
## Original Color

50.2089, 77.5219, 77.9626



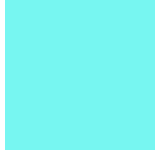
## Protanomaly

58.2712, 73.2666, 70.1021



## Deuteranomaly

60.8638, 72.6905, 79.9300



## Tritanomaly

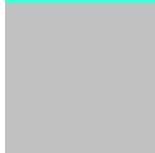
56.4407, 76.1843, 94.9494

# Monochromacy



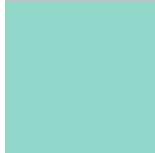
## Original Color

50.2089, 77.5219, 77.9626



## Achromatopsia

50.6879, 53.3276, 58.0738



## Achromatomaly

46.8936, 59.3957, 64.8701

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.2089, 77.5219, 77.9626 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(61, 255, 217)` looks like.

```
.text, #text, p{  
    color:rgb(61, 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(61, 255, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 255, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 50.2089, 77.5219, 77.9626 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(61, 255, 217) }
```



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

```
.border{ border-color:rgb(61, 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(61, 255, 217) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 255, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 255, 217);  
box-shadow:4px 4px 4px 4px rgb(61, 255,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.2089, 77.5219, 77.9626 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 255, 217) }
```

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

```
.background{ background-color: rgb(61, 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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