

# Converting Colors

XYZ(32.2849, 68.8429, 64.7053)

Have a look what the booklet for  
XYZ(32.2849, 68.8429, 64.7053)  
contains.

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# Color

**XYZ(45.8380, 75.5512,  
64.9903)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFC5
RGB	0, 255, 197
RGB Percent	0%, 100%, 77%
CMY	0.9999, 0.0000, 0.2274
CMYK	1.00, 0.00, 0.23, 0.00
HSL	166°, 100%, 50%
HSV	166°, 100%, 100%
XYZ	45.8380, 75.5512, 64.9903
YIQ	172.1430, -133.3620, -72.0980

# Conversions

## Conversions Part 2

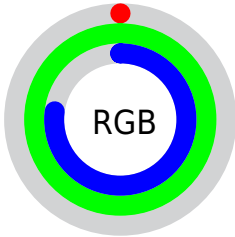
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 144, 255
Decimal	65477
CIELab	89.65, -63.29, 13.76
CIELCh	90, 64.767, 167.732
Yxy	75.5512, 0.2459, 0.4054
Android (android.graphics.Color)	4278255557 (0xFF00FFC5)
YUV	172.1430, 12.2545, -150.9694
Hunter-Lab	86.9202, -57.9771, 16.5130

# Details

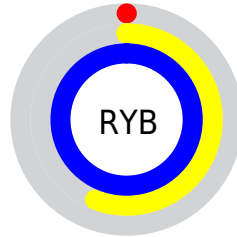
The XYZ color **45.8380, 75.5512, 64.9903** is a light color, and the websafe version is hex **00FFCC**. The color can be described as light saturated cyan. A complement of this color would be **42.0050, 21.5667, 5.9566**, and the grayscale version is **39.2788, 41.3244, 45.0022**.

A 20% lighter version of the original color is **60.8519, 82.3888, 106.4613**, and **24.9242, 41.9157, 32.7635** is the 20% darker color. If you saturate the color by 10%, you get **45.8373, 75.5509, 64.9864**, and if you desaturate by 10%, it is **46.9303, 76.0360, 68.5798**.

# Distribution



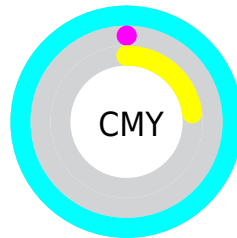
- Red (0%)
- Green (100%)
- Blue (77%)



- Red (0%)
- Yellow (56%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (23%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.8380, 75.5512, 64.9903 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 45.8380, 75.5512, 64.9903 by changing the saturation by 10% instead.





 45.8380, 75.5512,  
64.9903

 45.8380, 75.5512,  
64.9903


360.8838,  
479.8100, 461.0624


 32.3221, 56.0646,  
47.0019


 83.2058, 127.0923,  
113.6491


 21.7644, 40.2547,  
32.6828


 107.7885,  
159.9156, 145.1565


 13.7995, 27.7372,  
21.6144


 136.7908,  
197.9532, 182.0074

 8.0621, 18.1276,  
13.3783

 170.5780,  
241.5895, 224.6203

 4.1869, 11.0417,  
7.5558

 209.5156,  
291.2089, 273.4137

 1.8084, 6.0949,  
3.7284

253.9688,

 0.5227, 2.9029,

347.1959, 328.8061

1.4775

304.3031,  
409.9348, 391.2162

■ 0.0000, 1.0812,  
0.2011

■ 0.0000, 0.0000,  
0.0000

■ 45.8380, 75.5512,  
64.9903

■ 45.8380, 75.5512,  
64.9903

■ 45.8373, 75.5509,  
64.9864

■ 46.9303, 76.0360,  
68.5798

■ 48.5867, 76.8086,  
72.3293

■ 50.9727, 77.9543,  
76.2495

■ 54.1892, 79.5252,  
80.3463

■ 58.3210, 81.5647,  
84.6252

■ 63.4420, 84.1112,  
89.0909

■ 69.6187, 87.1987,  
93.7481

■ 76.9115, 90.8585,  
98.6007

■ 85.3764, 95.1192,  
103.6528

# Harmonies

## Analogous

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



51.4387, 75.5512, 36.2325



45.8380, 75.5512, 64.9903



46.4007, 75.5512, 111.9854

# Triad

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



45.8380, 75.5512, 64.9903



81.5506, 75.5512, 197.3422



94.4511, 75.5512, 32.9154

# Complementary

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



45.8380, 75.5512, 64.9903



42.0050, 21.5667, 5.9566

# 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.



105.1244, 75.5512, 58.3274



45.8380, 75.5512, 64.9903



96.9520, 75.5512, 156.5212

# Square

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



45.8380, 75.5512, 64.9903



65.4935, 75.5512, 201.2471



106.1020, 75.5512, 102.3519



78.5183, 75.5512, 22.8593



# Rectangle

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



45.8380, 75.5512, 64.9903



50.2008, 75.5512, 148.4927



106.1020, 75.5512, 102.3519



98.8688, 75.5512, 39.4007

# Sweetspot

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



45.8388, 75.5516, 64.9916



69.6087, 87.1937, 93.7410



37.5954, 72.4661, 12.0070



14.3134, 18.3699, 19.6391



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.



45.8388, 75.5516, 64.9916



45.8373, 75.5509, 64.9864



35.8230, 42.7652, 100.9742



18.3676, 20.4066, 22.2390



24.0105, 39.5008, 34.2703



2.3790, 3.8625, 3.5534



# Inverse Universe

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



42.0050, 21.5667, 5.9566



42.0039, 21.5656, 5.9526



43.3090, 25.3977, 2.6207



18.1786, 18.0547, 19.5576



21.9942, 11.2870, 3.3537

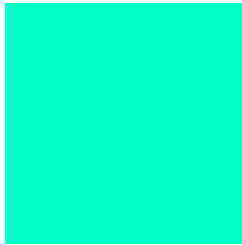


2.1808, 1.1147, 0.5338



# Previews

## White Background



This preview shows how the XYZ color 45.8380, 75.5512, 64.9903 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

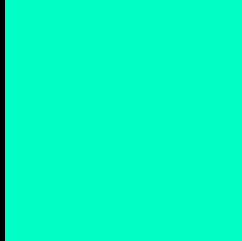
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.8380, 75.5512, 64.9903 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

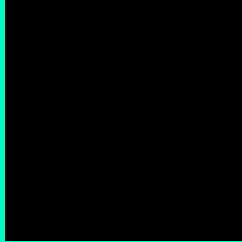
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 45.8380, 75.5512, 64.9903

## Background



This preview shows how black text looks on a background with the XYZ color 45.8380, 75.5512, 64.9903.



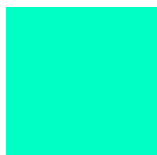
This preview shows how white text looks on a background with the XYZ color 45.8380, 75.5512, 64.9903.



# Color Blindness Simulation

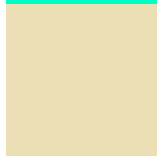
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

45.8380, 75.5512, 64.9903



### Protanopia

69.6532, 74.1161, 54.3508



### Deuteranopia

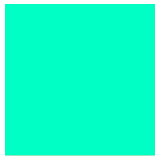
75.2247, 73.5663, 68.6275



## Tritanopia

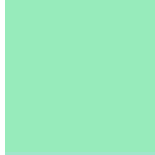
59.6913, 74.9434, 105.9272

# Trichromacy



## Original Color

45.8380, 75.5512, 64.9903



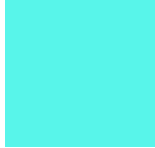
## Protanomaly

51.4405, 69.5838, 57.7335



## Deuteranomaly

53.5735, 68.3790, 66.8748



## Tritanomaly

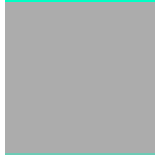
51.5282, 73.3200, 89.2783

# Monochromacy



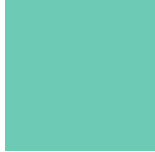
## Original Color

45.8380, 75.5512, 64.9903



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

35.7677, 48.8285, 51.2557

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.8380, 75.5512, 64.9903 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(0, 255, 197)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 197)  
}
```

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(0, 255, 197) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 197) }
```

## Border

The CSS property to change the border of an element to XYZ 45.8380, 75.5512, 64.9903 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(0, 255, 197) }
```



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

```
.border{ border-color:rgb(0, 255, 197) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 197)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 197); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 197);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
197) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.8380, 75.5512, 64.9903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 197) }
```

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

```
.background{ background-color: rgb(0, 255,  
197) }
```

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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