

# Converting Colors

XYZ(49.0817, 84.5877, 87.2991)

Have a look what the booklet for  
XYZ(49.0817, 84.5877, 87.2991)  
contains.

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# Color

**XYZ(49.7636, 77.1214,  
85.6619)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFE4
RGB	0, 255, 228
RGB Percent	0%, 100%, 89%
CMY	0.9998, 0.0000, 0.1059
CMYK	1.00, 0.00, 0.11, 0.00
HSL	174°, 100%, 50%
HSV	174°, 100%, 100%
XYZ	49.7636, 77.1214, 85.6619
YIQ	175.6770, -143.3130, -62.4570

# Conversions

## Conversions Part 2

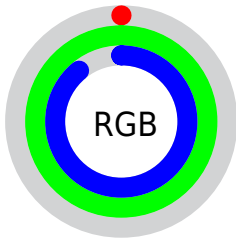
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 135, 255</a>
Decimal	<a href="#">65508</a>
CIELab	<a href="#">90.38, -55.53, -1.22</a>
CIELCh	<a href="#">90, 55.547, 181.261</a>
Yxy	<a href="#">77.1214, 0.2341, 0.3628</a>
Android (android.graphics.Color)	<a href="#">4278255588</a> ( <a href="#">0xFF00FFE4</a> )
YUV	<a href="#">175.6770, 25.7952, -154.0687</a>
Hunter-Lab	<a href="#">87.8188, -52.5337, 3.6394</a>

# Details

The XYZ color **49.7636, 77.1214, 85.6619** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **41.4392, 21.3408, 2.9756**, and the grayscale version is **41.0315, 43.1684, 47.0104**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **27.5091, 42.9496, 46.3754** is the 20% darker color. If you saturate the color by 10%, you get **49.7629, 77.1212, 85.6585**, and if you desaturate by 10%, it is **50.5567, 77.4866, 87.6729**.

# Distribution



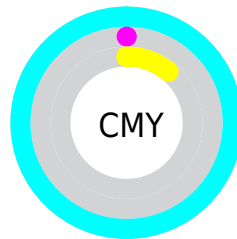
- Red (0%)
- Green (100%)
- Blue (89%)



- Red (0%)
- Yellow (53%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7636, 77.1214, 85.6619 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 49.7636, 77.1214, 85.6619 by changing the saturation by 10% instead.





 49.7636, 77.1214,  
85.6619


 49.7636, 77.1214,  
85.6619

376.2080,  
485.1778, 534.0173


 35.4426, 57.3525,  
63.8351


 89.0184, 129.3108,  
143.1799


 24.1721, 41.2883,  
46.0718


 114.6830,  
162.5002, 179.7083

 15.5868, 28.5445,  
31.9534


 144.8595,  
200.9318, 221.9743

 9.3212, 18.7365,  
21.0614

 179.9132,  
244.9901, 270.3964

 5.0101, 11.4800,  
12.9772

220.2096,  
295.0594, 325.3933

 2.2880, 6.3907,  
7.2823

266.1140,

 0.7885, 3.0841,

351.5243, 387.3833

3.5582

317.9917,  
414.7689, 456.7852

■ 0.0000, 1.1758,  
1.3862

■ 0.0000, 0.0418,  
0.1309

■ 49.7636, 77.1214,  
85.6619

■ 49.7636, 77.1214,  
85.6619

■ 49.7629, 77.1212,  
85.6585

■ 50.5567, 77.4866,  
87.6729

■ 51.8940, 78.1317,  
89.7387

■ 53.9407, 79.1418,  
91.8685

■ 56.7975, 80.5688,  
94.0672

60.5490, 82.4564,  
96.3389

65.2688, 84.8424,  
98.6872

71.0232, 87.7611,  
101.1153

77.8724, 91.2435,  
103.6261

85.8720, 95.3183,  
106.2223

# Harmonies

## Analogous

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



52.3366, 77.1214, 52.3705



49.7636, 77.1214, 85.6619



52.8062, 77.1214, 130.1122

# Triad

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



49.7636, 77.1214, 85.6619



88.0132, 77.1214, 167.5309



86.8713, 77.1214, 33.2676

# Complementary

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



49.7636, 77.1214, 85.6619



41.4392, 21.3408, 2.9756

# 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.



98.5133, 77.1214, 50.2767



49.7636, 77.1214, 85.6619



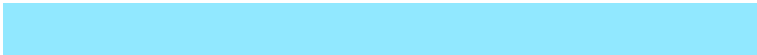
99.2288, 77.1214, 126.2578

# Square

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



49.7636, 77.1214, 85.6619



73.8893, 77.1214, 185.6743



103.2909, 77.1214, 82.3047



72.7170, 77.1214, 28.4602



# Rectangle

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



49.7636, 77.1214, 85.6619



57.8628, 77.1214, 158.6469



103.2909, 77.1214, 82.3047



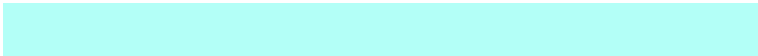
91.2679, 77.1214, 37.4132

# Sweetspot

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



49.7646, 77.1219, 85.6633



71.0079, 87.7534, 101.1093



36.2901, 71.7932, 11.9466



14.6517, 18.5052, 21.4203



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.



49.7646, 77.1219, 85.6633



49.7629, 77.1212, 85.6585



30.1541, 31.4271, 99.0845



18.4671, 20.4464, 22.7626



26.0357, 40.3109, 44.9349



2.5578, 3.9341, 4.4953



# Inverse Universe

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



41.4392, 21.3408, 2.9756



41.4379, 21.3392, 2.9720



45.5882, 29.9559, 3.3811



18.0875, 18.0183, 19.0782



21.6773, 11.1602, 1.6853

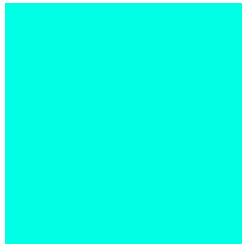


2.1351, 1.0964, 0.2930



# Previews

## White Background



This preview shows how the XYZ color 49.7636, 77.1214, 85.6619 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

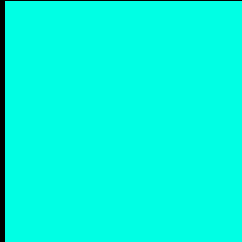
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.7636, 77.1214, 85.6619 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

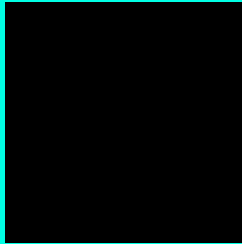
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.7636, 77.1214, 85.6619**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7636, 77.1214, 85.6619.



This preview shows how white text looks on a background with the XYZ color 49.7636, 77.1214,



# Color Blindness Simulation

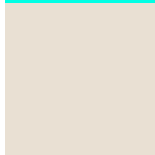
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



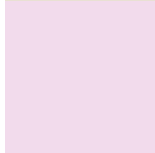
### Original Color

49.7636, 77.1214, 85.6619



### Protanopia

72.0178, 75.3381, 72.3740



### Deuteranopia

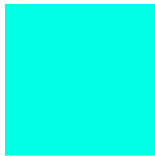
77.0898, 75.5964, 89.8854



## Tritanopia

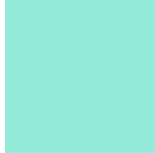
61.5379, 76.3336, 106.0982

# Trichromacy



## Original Color

49.7636, 77.1214, 85.6619



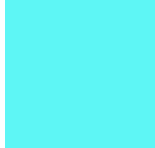
## Protanomaly

54.4455, 70.7223, 76.4268



## Deuteranomaly

56.8910, 70.4664, 87.6937



## Tritanomaly

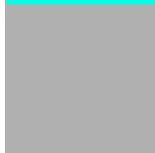
54.0533, 74.8838, 97.9913

# Monochromacy



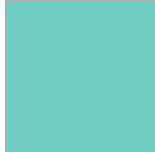
## Original Color

49.7636, 77.1214, 85.6619



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

38.3637, 51.0475, 59.4609

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7636, 77.1214, 85.6619 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, 228)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 228)  
}
```

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, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7636, 77.1214, 85.6619 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, 228) }
```



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

```
.border{ border-color:rgb(0, 255, 228) }
```

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, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 228);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7636, 77.1214, 85.6619 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, 228) }
```

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

```
.background{ background-color: rgb(0, 255,  
228) }
```

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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