

# Converting Colors

XYZ(39.8236, 72.6770, 83.7861)

Have a look what the booklet for  
XYZ(39.8236, 72.6770, 83.7861)  
contains.

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# Color

**XYZ(49.4875, 77.0110,  
84.2079)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFE2
RGB	0, 255, 226
RGB Percent	0%, 100%, 89%
CMY	0.9998, 0.0000, 0.1137
CMYK	1.00, 0.00, 0.11, 0.00
HSL	173°, 100%, 50%
HSV	173°, 100%, 100%
XYZ	49.4875, 77.0110, 84.2079
YIQ	175.4490, -142.6710, -63.0790

# Conversions

## Conversions Part 2

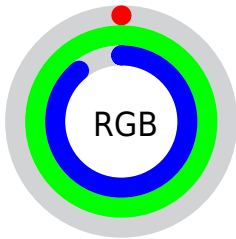
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 135, 255</a>
Decimal	<a href="#">65506</a>
CIELab	<a href="#">90.33, -56.06, -0.26</a>
CIELCh	<a href="#">90, 56.062, 180.265</a>
Yxy	<a href="#">77.0110, 0.2349, 0.3655</a>
Android (android.graphics.Color)	<a href="#">4278255586</a> ( <a href="#">0xFF00FFE2</a> )
YUV	<a href="#">175.4490, 24.9216, -153.8688</a>
Hunter-Lab	<a href="#">87.7559, -52.9127, 4.5363</a>

# Details

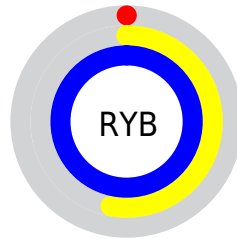
The XYZ color **49.4875, 77.0110, 84.2079** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **41.4631, 21.3503, 3.1018**, and the grayscale version is **40.9171, 43.0479, 46.8792**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **27.3169, 42.8728, 45.3636** is the 20% darker color. If you saturate the color by 10%, you get **49.4868, 77.0107, 84.2043**, and if you desaturate by 10%, it is **50.3041, 77.3856, 86.3430**.

# Distribution



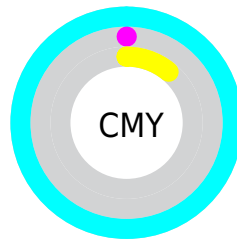
- Red (0%)
- Green (100%)
- Blue (89%)



- 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 49.4875, 77.0110, 84.2079 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 49.4875, 77.0110, 84.2079 by changing the saturation by 10% instead.





 49.4875, 77.0110,  
84.2079


 49.4875, 77.0110,  
84.2079

375.1436,  
484.8015, 529.0794


 35.2225, 57.2619,  
62.6407


 88.6114, 129.1550,  
141.1303


 24.0016, 41.2156,  
45.1115


 114.2011,  
162.3187, 177.3226

 15.4596, 28.4876,  
31.2017


 144.2963,  
200.7227, 219.2269

 9.2310, 18.6935,  
20.4927

 179.2624,  
244.7515, 267.2620

 4.9504, 11.4490,  
12.5661

 219.4649,  
294.7893, 321.8462

 2.2527, 6.3697,  
7.0032

265.2690,

 0.7703, 3.0712,

351.2207, 383.3982

3.3856

317.0401,  
414.4300, 452.3364

■ 0.0000, 1.1690,  
1.2948

■ 0.0000, 0.0362,  
0.0575

■ 49.4875, 77.0110,  
84.2079

■ 49.4875, 77.0110,  
84.2079


■ 49.4868, 77.0107,  
84.2043


■ 50.3041, 77.3856,  
86.3430


■ 51.6658, 78.0404,  
88.5375


■ 53.7378, 79.0606,  
90.8008


■ 56.6208, 80.4981,  
93.1376

 60.3993, 82.3964,  
95.5522

 65.1471, 84.7937,  
98.0482

 70.9304, 87.7240,  
100.6287

 77.8093, 91.2183,  
103.2969

 85.8397, 95.3053,  
106.0554

# Harmonies

## Analogous

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



52.2621, 77.0110, 51.1909



49.4875, 77.0110, 84.2079



52.3613, 77.0110, 128.9063

# Triad

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



49.4875, 77.0110, 84.2079



87.5864, 77.0110, 169.3902



87.3443, 77.0110, 33.2209

# Complementary

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



49.4875, 77.0110, 84.2079



41.4631, 21.3503, 3.1018

# 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.



98.9342, 77.0110, 50.7490



49.4875, 77.0110, 84.2079



99.0861, 77.0110, 128.0879

# Square

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



49.4875, 77.0110, 84.2079



73.3208, 77.0110, 186.7024



103.4772, 77.0110, 83.4969



73.0726, 77.0110, 28.0513



# Rectangle

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



49.4875, 77.0110, 84.2079



57.3336, 77.0110, 158.0132



103.4772, 77.0110, 83.4969



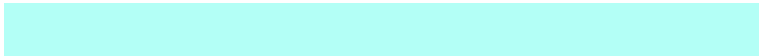
91.7450, 77.0110, 37.5152

# Sweetspot

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



49.4885, 77.0115, 84.2093



70.9155, 87.7164, 100.6225



36.2900, 71.7932, 11.9465



14.6293, 18.4962, 21.3023



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.



49.4885, 77.0115, 84.2093



49.4868, 77.0107, 84.2043



30.1540, 31.4268, 99.0844



18.4606, 20.4438, 22.7286



25.8935, 40.2540, 44.1860



2.5454, 3.9291, 4.4299



# Inverse Universe

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



41.4631, 21.3503, 3.1018



41.4618, 21.3487, 3.0981



45.5881, 29.9557, 3.3810



18.0934, 18.0207, 19.1088



21.6912, 11.1658, 1.7586

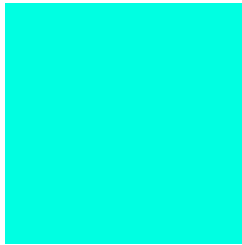


2.1379, 1.0975, 0.3074



# Previews

## White Background



This preview shows how the XYZ color 49.4875, 77.0110, 84.2079 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

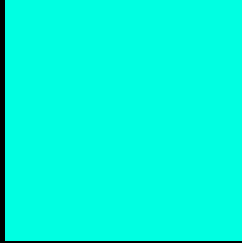
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.4875, 77.0110, 84.2079 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 49.4875, 77.0110, 84.2079**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.4875, 77.0110, 84.2079.



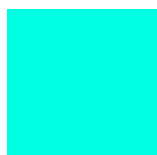
This preview shows how white text looks on a background with the XYZ color 49.4875, 77.0110,



# Color Blindness Simulation

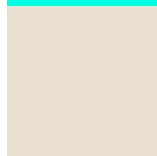
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



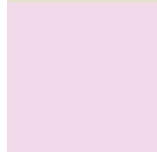
### Original Color

49.4875, 77.0110, 84.2079



### Protanopia

71.7686, 75.2384, 71.0615



### Deuteranopia

76.8848, 75.1380, 88.2927



## Tritanopia

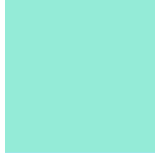
61.5379, 76.3336, 106.0982

# Trichromacy



## Original Color

49.4875, 77.0110, 84.2079



## Protanomaly

54.1868, 70.6189, 75.0648



## Deuteranomaly

56.5173, 69.8899, 86.1126



## Tritanomaly

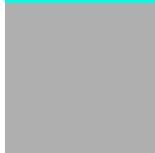
53.9010, 74.8229, 97.1893

# Monochromacy



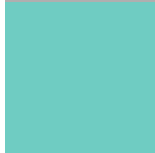
## Original Color

49.4875, 77.0110, 84.2079



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

37.8860, 50.4603, 58.7819

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.4875, 77.0110, 84.2079 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, 226)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 226)  
}
```

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, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 226) }
```

## Border

The CSS property to change the border of an element to XYZ 49.4875, 77.0110, 84.2079 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, 226) }
```



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

```
.border{ border-color:rgb(0, 255, 226) }
```

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, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 226);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
226) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.4875, 77.0110, 84.2079 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, 226) }
```

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

```
.background{ background-color: rgb(0, 255,  
226) }
```

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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