

# Converting Colors

XYZ(57.6241, 100.0000,  
90.4220)

Have a look what the booklet for  
XYZ(57.6241, 100.0000, 90.4220)  
contains.

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# Color

**XYZ(49.9029, 77.1771,  
86.3953)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFE5
RGB	0, 255, 229
RGB Percent	0%, 100%, 90%
CMY	0.9997, 0.0000, 0.1020
CMYK	1.00, 0.00, 0.10, 0.00
HSL	174°, 100%, 50%
HSV	174°, 100%, 100%
XYZ	49.9029, 77.1771, 86.3953
YIQ	175.7910, -143.6340, -62.1460

# Conversions

## Conversions Part 2

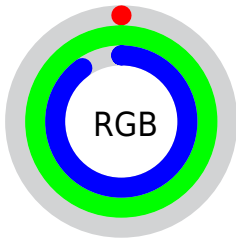
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 134, 255
Decimal	65509
CIELab	90.40, -55.27, -1.70
CIElCh	90, 55.294, 181.765
Yxy	77.1771, 0.2338, 0.3615
Android (android.graphics.Color)	4278255589 (0xFF00FFE5)
YUV	175.7910, 26.2320, -154.1687
Hunter-Lab	87.8505, -52.3426, 3.1875

# Details

The XYZ color **49.9029, 77.1771, 86.3953** 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 **41.4279, 21.3363, 2.9159**, and the grayscale version is **41.0893, 43.2292, 47.0766**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **27.6062, 42.9885, 46.8870** is the 20% darker color. If you saturate the color by 10%, you get **49.9022, 77.1769, 86.3918**, and if you desaturate by 10%, it is **50.6841, 77.5376, 88.3431**.

# Distribution



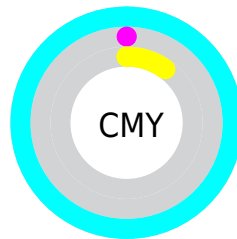
- Red (0%)
- Green (100%)
- Blue (90%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (10%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9029, 77.1771, 86.3953 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 49.9029, 77.1771, 86.3953 by changing the saturation by 10% instead.





 49.9029, 77.1771,  
86.3953


 49.9029, 77.1771,  
86.3953


376.7444,  
485.3676, 536.4983


 35.5537, 57.3982,  
64.4381


 89.2237, 129.3894,  
144.2124


 24.2582, 41.3251,  
46.5572


 114.9260,  
162.5917, 180.9094

 15.6511, 28.5732,  
32.3339


 145.1434,  
201.0373, 223.3568

 9.3669, 18.7582,  
21.3497

 180.2413,  
245.1104, 271.9732

 5.0403, 11.4957,  
13.1862

220.5850,  
295.1957, 327.1769

 2.3059, 6.4013,  
7.4246

266.5398,

 0.7977, 3.0906,

351.6774, 389.3867

3.6466

318.4711,  
414.9399, 459.0209

■ 0.0000, 1.1792,  
1.4335

■ 0.0000, 0.0446,  
0.1677

■ 49.9029, 77.1771,  
86.3953

■ 49.9029, 77.1771,  
86.3953

■ 49.9022, 77.1769,  
86.3918

■ 50.6841, 77.5376,  
88.3431

■ 52.0090, 78.1777,  
90.3435

■ 54.0430, 79.1827,  
92.4057

■ 56.8867, 80.6045,  
94.5345

60.6246, 82.4867,  
96.7341

65.3305, 84.8672,  
99.0080

71.0705, 87.7802,  
101.3593

77.9048, 91.2566,  
103.7912

85.8892, 95.3253,  
106.3061

# Harmonies

## Analogous

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



52.3747, 77.1771, 52.9679



49.9029, 77.1771, 86.3953



53.0303, 77.1771, 130.7169

# Triad

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



49.9029, 77.1771, 86.3953



88.2271, 77.1771, 166.6047



86.6357, 77.1771, 33.2923

# Complementary

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



49.9029, 77.1771, 86.3953



41.4279, 21.3363, 2.9159

# 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.



98.3032, 77.1771, 50.0429



49.9029, 77.1771, 86.3953



99.3000, 77.1771, 125.3491

# Square

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



49.9029, 77.1771, 86.3953



74.1749, 77.1771, 185.1592



103.1975, 77.1771, 81.7137



72.5402, 77.1771, 28.6673



# Rectangle

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



49.9029, 77.1771, 86.3953



58.1293, 77.1771, 158.9625



103.1975, 77.1771, 81.7137



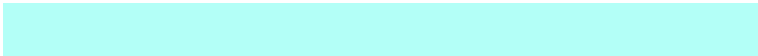
91.0301, 77.1771, 37.3636

# Sweetspot

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



49.9040, 77.1777, 86.3967



71.0542, 87.7719, 101.3531



36.2902, 71.7933, 11.9467



14.6629, 18.5097, 21.4795



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

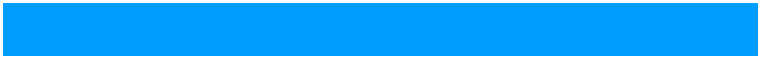
The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.9040, 77.1777, 86.3967



49.9022, 77.1769, 86.3918



30.1544, 31.4276, 99.0846



18.4703, 20.4477, 22.7796



26.1074, 40.3396, 45.3125



2.5641, 3.9366, 4.5282



# Inverse Universe

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



41.4279, 21.3363, 2.9159



41.4265, 21.3346, 2.9121



45.5885, 29.9564, 3.3813



18.0846, 18.0172, 19.0628



21.6707, 11.1576, 1.6503

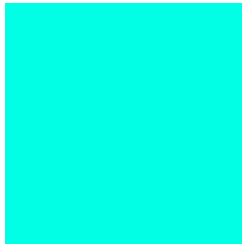


2.1337, 1.0959, 0.2858



# Previews

## White Background



This preview shows how the XYZ color 49.9029, 77.1771, 86.3953 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

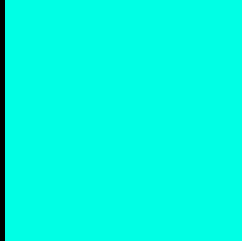
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9029, 77.1771, 86.3953 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 49.9029, 77.1771, 86.3953**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9029, 77.1771, 86.3953.



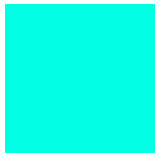
This preview shows how white text looks on a background with the XYZ color 49.9029, 77.1771,



# Color Blindness Simulation

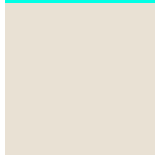
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



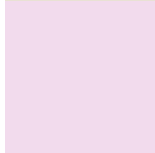
### Original Color

49.9029, 77.1771, 86.3953



### Protanopia

72.4132, 75.9275, 73.1263



### Deuteranopia

77.2355, 75.6547, 90.6528



## Tritanopia

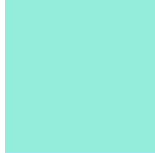
61.7180, 76.4265, 106.1066

# Trichromacy



## Original Color

49.9029, 77.1771, 86.3953



## Protanomaly

54.8631, 71.3488, 77.2098



## Deuteranomaly

57.0343, 70.5238, 88.4483



## Tritanomaly

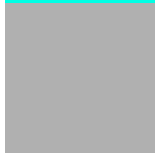
54.2064, 74.9450, 98.7976

# Monochromacy



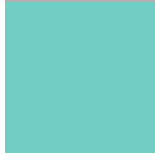
## Original Color

49.9029, 77.1771, 86.3953



## 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 49.9029, 77.1771, 86.3953 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, 229)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 229)  
}
```

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, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 229) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9029, 77.1771, 86.3953 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, 229) }
```



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

```
.border{ border-color:rgb(0, 255, 229) }
```

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, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 229);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
229) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9029, 77.1771, 86.3953 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, 229) }
```

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

```
.background{ background-color: rgb(0, 255,  
229) }
```

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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