

# Converting Colors

XYZ(51.6781, 86.1189, 81.1594)

Have a look what the booklet for  
XYZ(51.6781, 86.1189, 81.1594)  
contains.

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# Color

**XYZ(48.5462, 76.6345,  
79.2511)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFDB
RGB	0, 255, 219
RGB Percent	0%, 100%, 86%
CMY	0.9998, 0.0000, 0.1412
CMYK	1.00, 0.00, 0.14, 0.00
HSL	172°, 100%, 50%
HSV	172°, 100%, 100%
XYZ	48.5462, 76.6345, 79.2511
YIQ	174.6510, -140.4240, -65.2560

# Conversions

## Conversions Part 2

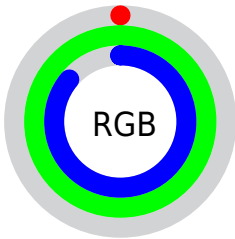
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 137, 255
Decimal	65499
CIELab	90.15, -57.88, 3.12
CIELCh	90, 57.964, 176.918
Yxy	76.6345, 0.2375, 0.3749
Android (android.graphics.Color)	4278255579 (0xFF00FFDB)
YUV	174.6510, 21.8641, -153.1689
Hunter-Lab	87.5411, -54.2093, 7.6035

# Details

The XYZ color **48.5462, 76.6345, 79.2511** 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 **41.5598, 21.3889, 3.6113**, and the grayscale version is **40.5180, 42.6281, 46.4220**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **26.6671, 42.6128, 41.9416** is the 20% darker color. If you saturate the color by 10%, you get **48.5454, 76.6342, 79.2471**, and if you desaturate by 10%, it is **49.4405, 77.0401, 81.7958**.

# Distribution



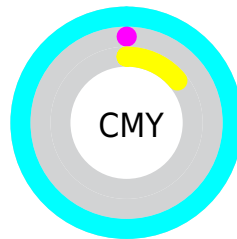
- Red (0%)
- Green (100%)
- Blue (86%)



- Red (0%)
- Yellow (54%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (14%)
- Black (0%)



- Cyan (100%)
- Magenta (0%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.5462, 76.6345, 79.2511 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 48.5462, 76.6345, 79.2511 by changing the saturation by 10% instead.



48.5462, 76.6345,  
79.2511

48.5462, 76.6345,  
79.2511

371.4997,  
483.5169, 512.0455

34.4727, 56.9529,  
58.5797

87.2219, 128.6234,  
134.1142

23.4216, 40.9675,  
41.8571

112.5547,  
161.6996, 169.1430

15.0275, 28.2937,  
28.6647

142.3714,  
200.0094, 209.7947

8.9251, 18.5471,  
18.5839

177.0373,  
243.9372, 256.4878

4.7491, 11.3435,  
11.1963

216.9177,  
293.8675, 309.6409

2.1340, 6.2984,  
6.0832

262.3780,

0.7076, 3.0274,

350.1846, 369.6725

2.8261

313.7836,  
413.2730, 437.0012

■ 0.0000, 1.1460,  
1.0065

■ 0.0000, 0.0170,  
0.0000

■ 48.5462, 76.6345,  
79.2511

■ 48.5462, 76.6345,  
79.2511

■ 48.5454, 76.6342,  
79.2471

■ 49.4405, 77.0401,  
81.7958

■ 50.8834, 77.7274,  
84.4188

■ 53.0401, 78.7815,  
87.1293

■ 56.0115, 80.2543,  
89.9324

■ 59.8820, 82.1895,  
92.8325

■ 64.7255, 84.6250,  
95.8333

■ 70.6081, 87.5949,  
98.9381

■ 77.5901, 91.1304,  
102.1502

■ 85.7273, 95.2602,  
105.4724

# Harmonies

## Analogous

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



52.0194, 76.6345, 47.2178



48.5462, 76.6345, 79.2511



50.8391, 76.6345, 124.7236

# Triad

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



48.5462, 76.6345, 79.2511



86.1030, 76.6345, 175.9725



89.0177, 76.6345, 33.0832

# Complementary

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



48.5462, 76.6345, 79.2511



41.5598, 21.3889, 3.6113

# 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.



100.4146, 76.6345, 52.4516



48.5462, 76.6345, 79.2511



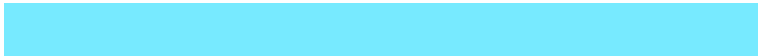
98.5820, 76.6345, 134.6276

# Square

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



48.5462, 76.6345, 79.2511



71.3604, 76.6345, 190.2801



104.1246, 76.6345, 87.7780



74.3375, 76.6345, 26.6740



# Rectangle

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



48.5462, 76.6345, 79.2511



55.5196, 76.6345, 155.7710



104.1246, 76.6345, 87.7780



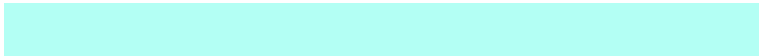
93.4301, 76.6345, 37.8999

# Sweetspot

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



48.5471, 76.6349, 79.2525



70.5943, 87.5879, 98.9313



36.5706, 71.9378, 11.9595



14.5515, 18.4651, 20.8924



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.



48.5471, 76.6349, 79.2525



48.5454, 76.6342, 79.2471



31.6450, 34.4089, 99.5815



18.4381, 20.4348, 22.6097



25.4084, 40.0600, 41.6316



2.5029, 3.9121, 4.2061



# Inverse Universe

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



41.5598, 21.3889, 3.6113



41.5585, 21.3874, 3.6073



44.8365, 28.4525, 3.1303



18.1138, 18.0288, 19.2165



21.7467, 11.1880, 2.0505

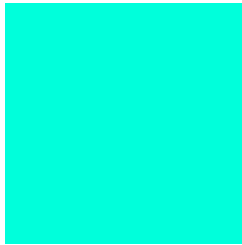


2.1474, 1.1014, 0.3579



# Previews

## White Background



This preview shows how the XYZ color 48.5462, 76.6345, 79.2511 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

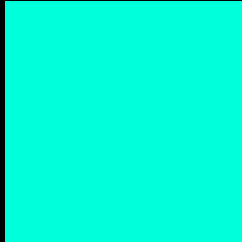
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.5462, 76.6345, 79.2511 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

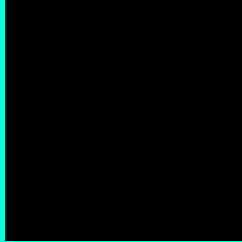
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

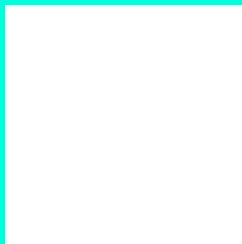
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 48.5462, 76.6345, 79.2511

## Background



This preview shows how black text looks on a background with the XYZ color 48.5462, 76.6345, 79.2511.



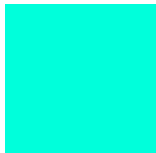
This preview shows how white text looks on a background with the XYZ color 48.5462, 76.6345,



# Color Blindness Simulation

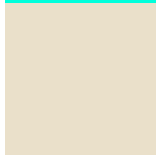
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



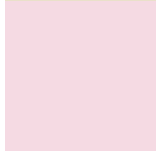
### Original Color

48.5462, 76.6345, 79.2511



### Protanopia

71.2480, 75.0680, 66.6115



### Deuteranopia

76.5927, 75.1013, 83.1322



## Tritanopia

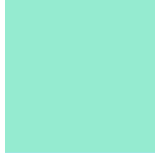
61.1824, 76.1503, 106.0816

# Trichromacy



## Original Color

48.5462, 76.6345, 79.2511



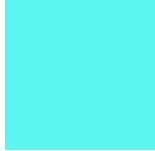
## Protanomaly

53.4879, 70.3603, 70.4363



## Deuteranomaly

55.7408, 69.6016, 81.0176



## Tritanomaly

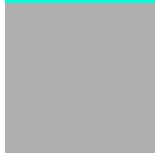
53.3964, 74.5977, 95.5889

# Monochromacy



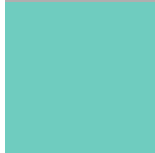
## Original Color

48.5462, 76.6345, 79.2511



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

37.5524, 50.3268, 57.0250

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.5462, 76.6345, 79.2511 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, 219)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 219)  
}
```

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, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 48.5462, 76.6345, 79.2511 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, 219) }
```



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

```
.border{ border-color:rgb(0, 255, 219) }
```

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, 219) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 219);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.5462, 76.6345, 79.2511 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, 219) }
```

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

```
.background{ background-color: rgb(0, 255,  
219) }
```

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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