

# Converting Colors

XYZ(48.6958, 76.6943, 80.0389)

Have a look what the booklet for  
XYZ(48.6958, 76.6943, 80.0389)  
contains.

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# Color

**XYZ(48.6783, 76.6873,  
79.9467)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFDC
RGB	0, 255, 220
RGB Percent	0%, 100%, 86%
CMY	0.9998, 0.0000, 0.1372
CMYK	1.00, 0.00, 0.14, 0.00
HSL	172°, 100%, 50%
HSV	172°, 100%, 100%
XYZ	48.6783, 76.6873, 79.9467
YIQ	174.7650, -140.7450, -64.9450

# Conversions

## Conversions Part 2

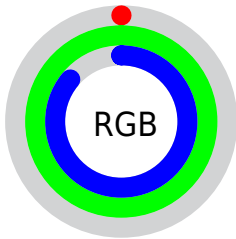
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 137, 255
Decimal	65500
CIELab	90.18, -57.62, 2.63
CIELCh	90, 57.683, 177.383
Yxy	76.6873, 0.2371, 0.3735
Android (android.graphics.Color)	4278255580 (0xFF00FFDC)
YUV	174.7650, 22.3009, -153.2689
Hunter-Lab	87.5713, -54.0269, 7.1721

# Details

The XYZ color **48.6783, 76.6873, 79.9467** 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 **41.5448, 21.3829, 3.5321**, and the grayscale version is **40.5753, 42.6883, 46.4876**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **26.7578, 42.6491, 42.4191** is the 20% darker color. If you saturate the color by 10%, you get **48.6775, 76.6870, 79.9425**, and if you desaturate by 10%, it is **49.5620, 77.0887, 82.4353**.

# Distribution



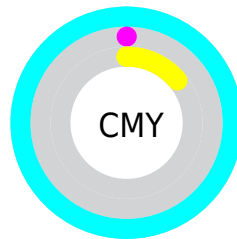
- Red (0%)
- Green (100%)
- Blue (86%)



- 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 48.6783, 76.6873, 79.9467 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 48.6783, 76.6873, 79.9467 by changing the saturation by 10% instead.





 48.6783, 76.6873,  
79.9467


 48.6783, 76.6873,  
79.9467


372.0125,  
483.6972, 514.4552


 34.5778, 56.9963,  
59.1486


 87.4171, 128.6980,  
135.1015


 23.5028, 41.0022,  
42.3119


 112.7861,  
161.7864, 170.2953

 15.0880, 28.3208,  
29.0182


 142.6420,  
200.1094, 211.1247

 8.9679, 18.5677,  
18.8489

 177.3502,  
244.0514, 258.0083

 4.7772, 11.3583,  
11.3855

217.2760,  
293.9968, 311.3646

 2.1505, 6.3084,  
6.2093

262.7847,

 0.7165, 3.0335,

350.3300, 371.6122

2.9019

314.2417,  
413.4353, 439.1695

■ 0.0000, 1.1492,  
1.0448

■ 0.0000, 0.0196,  
0.0000

■ 48.6783, 76.6873,  
79.9467

■ 48.6783, 76.6873,  
79.9467

■ 48.6775, 76.6870,  
79.9425

■ 49.5620, 77.0887,  
82.4353

■ 50.9937, 77.7715,  
84.9991

■ 53.1388, 78.8210,  
87.6476

■ 56.0980, 80.2889,  
90.3859

■ 59.9557, 82.2190,  
93.2180

■ 64.7858, 84.6491,  
96.1478

■ 70.6545, 87.6136,  
99.1787

■ 77.6220, 91.1433,  
102.3137

■ 85.7441, 95.2670,  
105.5558

# Harmonies

## Analogous

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



52.0524, 76.6873, 47.7708



48.6783, 76.6873, 79.9467



51.0533, 76.6873, 125.3174

# Triad

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



48.6783, 76.6873, 79.9467



86.3139, 76.6873, 175.0249



88.7768, 76.6873, 33.1004

# Complementary

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



48.6783, 76.6873, 79.9467



41.5448, 21.3829, 3.5321

# 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.



100.2023, 76.6873, 52.2036



48.6783, 76.6873, 79.9467



98.6544, 76.6873, 133.6804

# Square

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



48.6783, 76.6873, 79.9467



71.6377, 76.6873, 189.7708



104.0325, 76.6873, 87.1559



74.1548, 76.6873, 26.8658



# Rectangle

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



48.6783, 76.6873, 79.9467



55.7751, 76.6873, 156.0935



104.0325, 76.6873, 87.1559



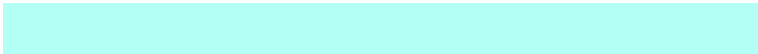
93.1879, 76.6873, 37.8423

# Sweetspot

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



48.6793, 76.6878, 79.9481



70.6400, 87.6062, 99.1717



36.5707, 71.9379, 11.9596



14.5625, 18.4695, 20.9506



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.



48.6793, 76.6878, 79.9481



48.6775, 76.6870, 79.9425



31.6452, 34.4094, 99.5815



18.4413, 20.4360, 22.6267



25.4765, 40.0872, 41.9900



2.5089, 3.9145, 4.2376



# Inverse Universe

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



41.5448, 21.3829, 3.5321



41.5435, 21.3814, 3.5280



44.8367, 28.4528, 3.1305



18.1109, 18.0277, 19.2011



21.7381, 11.1845, 2.0054

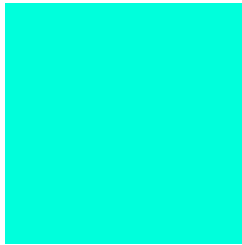


2.1461, 1.1008, 0.3507



# Previews

## White Background



This preview shows how the XYZ color 48.6783, 76.6873, 79.9467 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

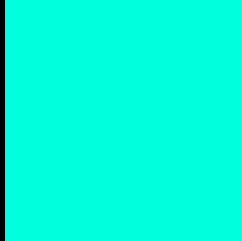
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.6783, 76.6873, 79.9467 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

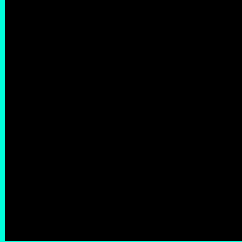
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

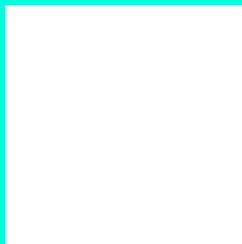
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.6783, 76.6873, 79.9467**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.6783, 76.6873, 79.9467.



This preview shows how white text looks on a background with the XYZ color 48.6783, 76.6873,



# Color Blindness Simulation

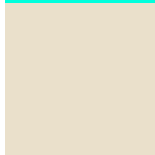
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



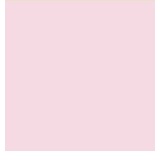
### Original Color

48.6783, 76.6873, 79.9467



### Protanopia

71.3668, 75.1155, 67.2372



### Deuteranopia

76.7312, 75.1567, 83.8613



## Tritanopia

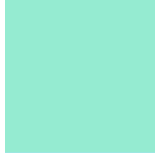
61.1824, 76.1503, 106.0816

# Trichromacy



## Original Color

48.6783, 76.6873, 79.9467



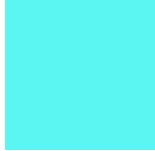
## Protanomaly

53.6114, 70.4097, 71.0864



## Deuteranomaly

55.8768, 69.6560, 81.7341



## Tritanomaly

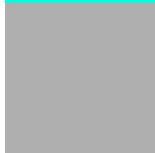
53.3964, 74.5977, 95.5889

# Monochromacy



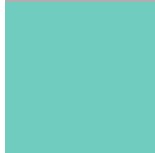
## Original Color

48.6783, 76.6873, 79.9467



## 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 48.6783, 76.6873, 79.9467 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, 220)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 220)  
}
```

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, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 48.6783, 76.6873, 79.9467 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, 220) }
```



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

```
.border{ border-color:rgb(0, 255, 220) }
```

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, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 220);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.6783, 76.6873, 79.9467 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, 220) }
```

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

```
.background{ background-color: rgb(0, 255,  
220) }
```

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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