

# Converting Colors

XYZ(49.7968, 79.6698, 66.9141)

Have a look what the booklet for  
XYZ(49.7968, 79.6698, 66.9141)  
contains.

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# Color

**XYZ(48.3835, 76.8368,  
66.3137)**

# Conversions

## Conversions Part 1

Format	Color
Hex	43FFC7
RGB	67, 255, 199
RGB Percent	26%, 100%, 78%
CMY	0.7372, 0.0000, 0.2196
CMYK	0.74, 0.00, 0.22, 0.00
HSL	162°, 100%, 63%
HSV	162°, 74%, 100%
XYZ	48.3835, 76.8368, 66.3137
YIQ	192.4040, -94.0720, -57.2720

# Conversions

## Conversions Part 2

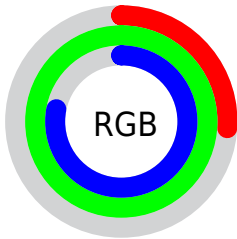
Format	Color
<a href="#">RYB</a>	<a href="#">67, 177, 255</a>
Decimal	<a href="#">4456391</a>
CIELab	<a href="#">90.25, -58.73, 13.65</a>
CIELCh	<a href="#">90, 60.295, 166.911</a>
Yxy	<a href="#">76.8368, 0.2526, 0.4012</a>
Android (android.graphics.Color)	<a href="#">4282646471 (0xFF43FFC7)</a>
YUV	<a href="#">192.4040, 3.2518, -109.9793</a>
Hunter-Lab	<a href="#">87.6566, -54.8731, 16.5057</a>

# Details

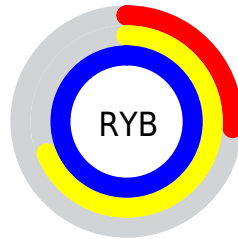
The XYZ color **48.3835, 76.8368, 66.3137** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **46.8230, 26.7053, 21.4273**, and the grayscale version is **50.3609, 52.9835, 57.6991**.

A 20% lighter version of the original color is **64.6252, 84.3154, 107.4761**, and **25.0771, 41.9768, 33.5687** is the 20% darker color. If you saturate the color by 10%, you get **46.1436, 75.7814, 61.7203**, and if you desaturate by 10%, it is **51.4378, 78.3069, 71.1777**.

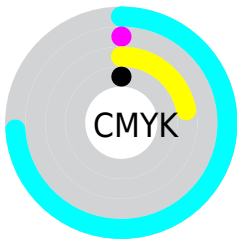
# Distribution



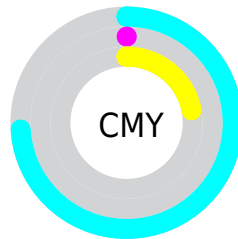
- Red (26%)
- Green (100%)
- Blue (78%)



- Red (26%)
- Yellow (69%)
- Blue (100%)



- Cyan (74%)
- Magenta (0%)
- Yellow (22%)
- Black (0%)




- Cyan (74%)
- Magenta (0%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.3835, 76.8368, 66.3137 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 48.3835, 76.8368, 66.3137 by changing the saturation by 10% instead.





 48.3835, 76.8368,  
66.3137


 48.3835, 76.8368,  
66.3137


370.8676,  
484.2074, 465.9328


 34.3432, 57.1189,  
48.0690


 86.9814, 128.9091,  
115.5678


 23.3215, 41.1007,  
33.5212


 112.2696,  
162.0323, 147.4142

 14.9531, 28.3978,  
22.2516


 142.0380,  
200.3927, 184.6316

 8.8726, 18.6258,  
13.8418

 176.6517,  
244.3748, 227.6386

 4.7146, 11.4002,  
7.8732

216.4761,  
294.3629, 276.8537

 2.1138, 6.3367,  
3.9273

261.8767,

 0.6967, 3.0509,

350.7415, 332.6954

1.5856

313.2187,  
413.8948, 395.5822

■ 0.0000, 1.1583,  
0.2805

■ 0.0000, 0.0273,  
0.0000

■ 48.3835, 76.8368,  
66.3137

■ 48.3835, 76.8368,  
66.3137

■ 46.1436, 75.7814,  
61.7203

■ 51.4378, 78.3069,  
71.1777


■ 44.6057, 75.0830,  
57.3849


■ 55.3945, 80.2370,  
76.3157


■ 43.9010, 74.7764,  
54.7899


■ 60.3323, 82.6676,  
81.7359

■ 66.3204, 85.6345,  
87.4446

 73.4218, 89.1699,  
93.4478

 81.6942, 93.3035,  
99.7513

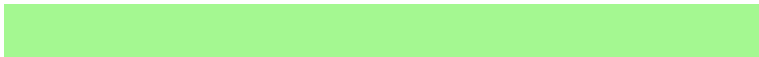
 91.1914, 98.0630,  
106.3605

 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



53.9255, 76.8368, 38.9655



48.3835, 76.8368, 66.3137



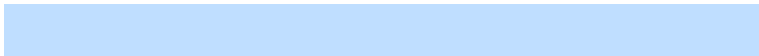
48.7630, 76.8368, 110.0681

# Triad

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



48.3835, 76.8368, 66.3137



81.7476, 76.8368, 190.2070



94.5622, 76.8368, 36.6707

# Complementary

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



48.3835, 76.8368, 66.3137



46.8230, 26.7053, 21.4273

# 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.



104.2523, 76.8368, 61.8583



48.3835, 76.8368, 66.3137



96.1878, 76.8368, 153.7384

# Square

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



48.3835, 76.8368, 66.3137



66.6915, 76.8368, 192.6838



104.8849, 76.8368, 103.7997



79.7602, 76.8368, 26.2363



# Rectangle

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



48.3835, 76.8368, 66.3137



52.3096, 76.8368, 143.7323



104.8849, 76.8368, 103.7997



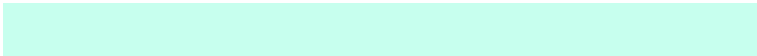
98.6086, 76.8368, 43.2084

# Sweetspot

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



48.3843, 76.8372, 66.3151



74.7618, 89.8385, 94.5122



44.9998, 76.1662, 17.6411



15.5540, 19.0056, 19.8718



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.



48.3843, 76.8372, 66.3151



45.4072, 75.4428, 59.8347



45.2817, 58.2464, 103.4638



18.3108, 20.3838, 21.9396



23.0081, 39.0998, 28.9919



2.2884, 3.8263, 3.0765



# Inverse Universe

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



46.8230, 26.7053, 21.4273



43.8980, 23.0906, 13.5610



47.2648, 31.6883, 8.9366



18.2320, 18.0761, 19.8388



22.2865, 11.4039, 4.8933

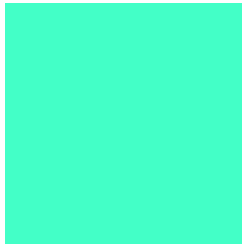


2.2156, 1.1286, 0.7167



# Previews

## White Background



This preview shows how the XYZ color 48.3835, 76.8368, 66.3137 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

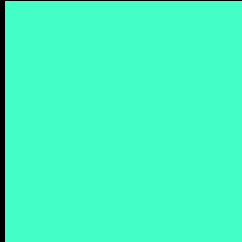
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.3835, 76.8368, 66.3137 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

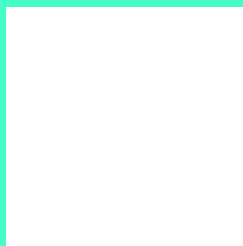
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.3835, 76.8368, 66.3137**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.3835, 76.8368, 66.3137.



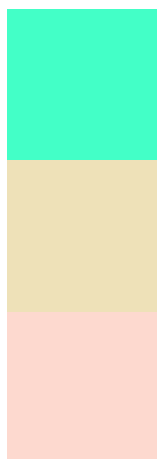
This preview shows how white text looks on a background with the XYZ color 48.3835, 76.8368, 66.3137.



# 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

48.3835, 76.8368, 66.3137

### Protanopia

70.8368, 75.4883, 56.1846

### Deuteranopia

76.5834, 75.0133, 69.4741



## Tritanopia

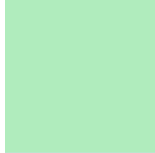
61.7878, 76.0242, 106.0253

# Trichromacy



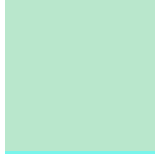
## Original Color

48.3835, 76.8368, 66.3137



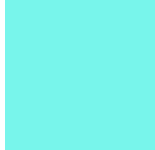
## Protanomaly

57.0853, 72.8951, 59.2056



## Deuteranomaly

59.4826, 71.8257, 67.8554



## Tritanomaly

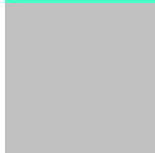
55.3935, 75.2960, 90.2113

# Monochromacy



## Original Color

48.3835, 76.8368, 66.3137



## Achromatopsia

50.1023, 52.7115, 57.4028



## Achromatomaly

46.1834, 58.7441, 60.5344

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.3835, 76.8368, 66.3137 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(67, 255, 199)` looks like.

```
.text, #text, p{  
    color:rgb(67, 255, 199)  
}
```

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(67, 255, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 255, 199) }
```

## Border

The CSS property to change the border of an element to XYZ 48.3835, 76.8368, 66.3137 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(67, 255, 199) }
```



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

```
.border{ border-color:rgb(67, 255, 199) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(67, 255, 199) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 255, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 255, 199);  
box-shadow:4px 4px 4px 4px rgb(67, 255,  
199) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.3835, 76.8368, 66.3137 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 255, 199) }
```

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

```
.background{ background-color: rgb(67, 255,  
199) }
```

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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