

# Converting Colors

XYZ(48.8543, 77.0860, 66.0440)

Have a look what the booklet for  
XYZ(48.8543, 77.0860, 66.0440)  
contains.

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# Color

**XYZ(48.8928, 77.0994,  
66.3376)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4AFFC7
RGB	74, 255, 199
RGB Percent	29%, 100%, 78%
CMY	0.7098, 0.0000, 0.2196
CMYK	0.71, 0.00, 0.22, 0.00
HSL	161°, 100%, 65%
HSV	161°, 71%, 100%
XYZ	48.8928, 77.0994, 66.3376
YIQ	194.4970, -89.9000, -55.7880

# Conversions

## Conversions Part 2

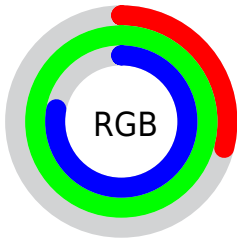
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">74, 181, 255</a>
Decimal	<a href="#">4915143</a>
CIELab	<a href="#">90.37, -57.85, 13.84</a>
CIElCh	<a href="#">90, 59.487, 166.544</a>
Yxy	<a href="#">77.0994, 0.2542, 0.4009</a>
Android (android.graphics.Color)	<a href="#">4283105223 (0xFF4AFFC7)</a>
YUV	<a href="#">194.4970, 2.2200, -105.6759</a>
Hunter-Lab	<a href="#">87.8063, -54.2675, 16.6708</a>

# Details

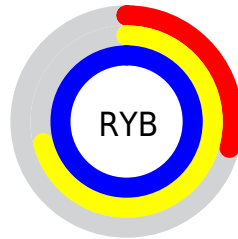
The XYZ color **48.8928, 77.0994, 66.3376** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **47.7187, 27.7701, 23.9654**, and the grayscale version is **51.5987, 54.2859, 59.1173**.

A 20% lighter version of the original color is **65.3116, 84.6693, 107.5083**, and **25.0771, 41.9768, 33.5687** is the 20% darker color. If you saturate the color by 10%, you get **46.4193, 75.9273, 61.5642**, and if you desaturate by 10%, it is **52.2103, 78.7009, 71.4011**.

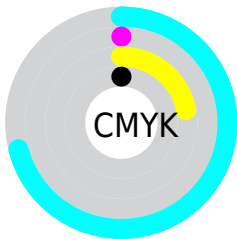
# Distribution



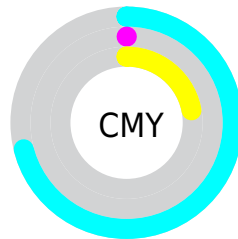
- Red (29%)
- Green (100%)
- Blue (78%)



- Red (29%)
- Yellow (71%)
- Blue (100%)



- Cyan (71%)
- Magenta (0%)
- Yellow (22%)
- Black (0%)




- Cyan (71%)
- Magenta (0%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8928, 77.0994, 66.3376 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 48.8928, 77.0994, 66.3376 by changing the saturation by 10% instead.





 48.8928, 77.0994,  
66.3376


 48.8928, 77.0994,  
66.3376


372.8441,  
485.1029, 466.0204


 34.7486, 57.3345,  
48.0883


 87.7339, 129.2798,  
115.6024


 23.6349, 41.2738,  
33.5363


 113.1615,  
162.4640, 147.4549

 15.1863, 28.5331,  
22.2632


 143.0811,  
200.8901, 184.6789

 9.0374, 18.7279,  
13.8502

 177.8578,  
244.9425, 227.6930

 4.8229, 11.4738,  
7.8790

217.8571,  
295.0056, 276.9156

 2.1774, 6.3865,  
3.9310

263.4444,

 0.7308, 3.0815,

351.4638, 332.7654

1.5875

314.9849,  
414.7014, 395.6608

■ 0.0000, 1.1744,  
0.2819

■ 0.0000, 0.0407,  
0.0000

■ 48.8928, 77.0994,  
66.3376

■ 48.8928, 77.0994,  
66.3376

■ 46.4193, 75.9273,  
61.5642

■ 52.2103, 78.7009,  
71.4011

■ 44.6840, 75.1304,  
57.0682

■ 56.4559, 80.7755,  
76.7583

■ 43.6069, 74.6588,  
53.2413

■ 61.7058, 83.3621,  
82.4176

■ 68.0275, 86.4955,  
88.3857

■ 75.4823, 90.2072,  
94.6689

■ 84.1270, 94.5265,  
101.2732

■ 94.0143, 99.4804,  
108.2043

■ 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.



54.4638, 77.0994, 39.3644



48.8928, 77.0994, 66.3376



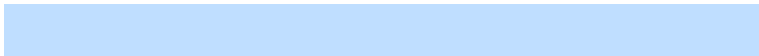
49.1972, 77.0994, 109.4248

# Triad

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



48.8928, 77.0994, 66.3376



81.7068, 77.0994, 189.1309



94.7024, 77.0994, 37.5152

# Complementary

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



48.8928, 77.0994, 66.3376



47.7187, 27.7701, 23.9654

# 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.



104.1659, 77.0994, 62.7687



48.8928, 77.0994, 66.3376



95.9979, 77.0994, 153.6026

# Square

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



48.8928, 77.0994, 66.3376



66.8416, 77.0994, 191.0959



104.6697, 77.0994, 104.4283



80.1206, 77.0994, 26.9273



# Rectangle

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



48.8928, 77.0994, 66.3376



52.6701, 77.0994, 142.5903



104.6697, 77.0994, 104.4283



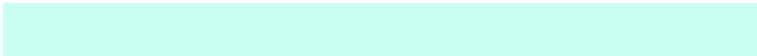
98.6688, 77.0994, 44.0959

# Sweetspot

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



48.8935, 77.0997, 66.3389



75.4648, 90.1984, 94.6548



46.4060, 76.8654, 18.8702



15.6872, 19.0741, 19.8819



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.



48.8935, 77.0997, 66.3389



45.6392, 75.5651, 59.7230



46.9474, 60.8218, 103.8731



18.3015, 20.3801, 21.8908



22.8557, 39.0389, 28.1889



2.2744, 3.8207, 3.0031



# Inverse Universe

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



47.7187, 27.7701, 23.9654



44.5069, 23.6886, 15.6749



47.7535, 32.3091, 10.1990



18.2408, 18.0796, 19.8851



22.3426, 11.4264, 5.1889

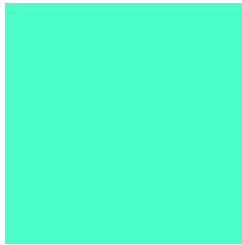


2.2219, 1.1312, 0.7502



# Previews

## White Background



This preview shows how the XYZ color 48.8928, 77.0994, 66.3376 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

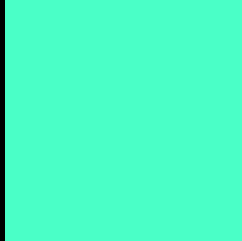
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8928, 77.0994, 66.3376 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

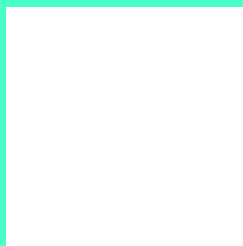
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.8928, 77.0994, 66.3376**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8928, 77.0994, 66.3376.



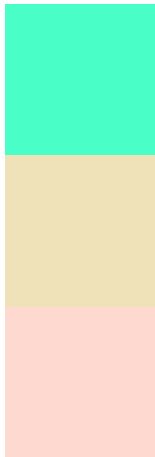
This preview shows how white text looks on a background with the XYZ color 48.8928, 77.0994,



# 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

48.8928, 77.0994, 66.3376

### Protanopia

71.1735, 75.6618, 56.2003

### Deuteranopia

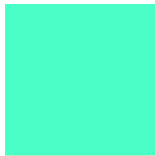
76.9484, 75.2015, 69.4912



## Tritanopia

62.1590, 76.2156, 106.0427

# Trichromacy



## Original Color

48.8928, 77.0994, 66.3376



## Protanomaly

57.7712, 73.2487, 59.2377



## Deuteranomaly

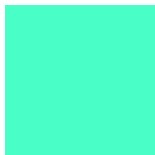
60.4613, 72.3303, 67.9012



## Tritanomaly

55.9600, 75.5881, 90.2378

# Monochromacy



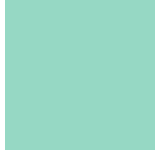
## Original Color

48.8928, 77.0994, 66.3376



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

47.0973, 59.5813, 61.2426

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8928, 77.0994, 66.3376 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(74, 255, 199)` looks like.

```
.text, #text, p{  
    color:rgb(74, 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(74, 255, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 255, 199) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8928, 77.0994, 66.3376 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(74, 255, 199) }
```



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

```
.border{ border-color:rgb(74, 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(74, 255, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 255, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 255, 199);  
box-shadow:4px 4px 4px 4px rgb(74, 255,  
199) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8928, 77.0994, 66.3376 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 255, 199) }
```

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

```
.background{ background-color: rgb(74, 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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