

# Converting Colors

XYZ(42.6860, 54.8880,  
102.9524)

Have a look what the booklet for  
XYZ(42.6860, 54.8880, 102.9524)  
contains.

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# Color

**XYZ(42.6757, 54.8649,  
102.9485)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DD4FF
RGB	45, 212, 255
RGB Percent	18%, 83%, 100%
CMY	0.8234, 0.1686, 0.0000
CMYK	0.82, 0.17, 0.00, 0.00
HSL	192°, 100%, 59%
HSV	192°, 82%, 100%
XYZ	42.6757, 54.8649, 102.9485
YIQ	166.9690, -113.3350, -22.0310

# Conversions

## Conversions Part 2

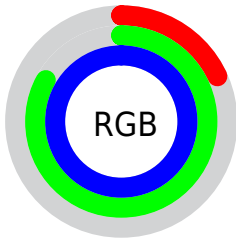
Format	Color
R <sub>Y</sub> B	45, 138, 255
Decimal	3003647
CIE Lab	78.96, -26.46, -32.57
CIE LCh	79, 41.959, 230.913
Yxy	54.8649, 0.2129, 0.2737
Android (android.graphics.Color)	4281193727 (0xFF2DD4FF)
YUV	166.9690, 43.3993, -106.9668
Hunter-Lab	74.0708, -26.7817, -30.5555

# Details

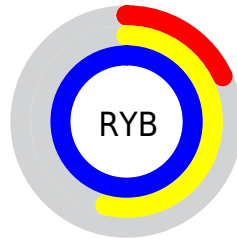
The XYZ color **42.6757, 54.8649, 102.9485** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **45.2053, 28.4322, 5.5902**, and the grayscale version is **36.5542, 38.4578, 41.8806**.

A 20% lighter version of the original color is **62.5624, 83.2520, 107.3796**, and **22.2500, 28.1912, 57.6948** is the 20% darker color. If you saturate the color by 10%, you get **40.5887, 51.8835, 102.4830**, and if you desaturate by 10%, it is **45.4843, 58.2831, 103.4602**.

# Distribution



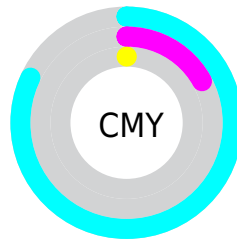
- Red (18%)
- Green (83%)
- Blue (100%)



- Red (18%)
- Yellow (54%)
- Blue (100%)



- Cyan (82%)
- Magenta (17%)
- Yellow (0%)
- Black (0%)



- Cyan (82%)
- Magenta (17%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6757, 54.8649, 102.9485 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 42.6757, 54.8649, 102.9485 by changing the saturation by 10% instead.



42.6757, 54.8649,  
102.9485

42.6757, 54.8649,  
102.9485

348.2205,  
405.3996, 590.9323

29.8242, 39.2936,  
78.1347

78.4800, 97.3430,  
167.2903

19.8526, 26.9882,  
57.6675

102.1635,  
125.0185, 207.6554

12.3956, 17.5643,  
41.1285

130.1884,  
157.4976, 254.0413

7.0878, 10.6377,  
28.0990

162.9199,  
195.1646, 306.8666

3.5639, 5.8238,  
18.1606

200.7236,  
238.4039, 366.5498

1.4585, 2.7382,  
10.8947

243.9647,

0.2973, 0.9966,

287.5999, 433.5094

5.8828

293.0085,  
343.1370, 508.1641

■ 0.0000, 0.0000,  
2.7063

■ 0.0000, 0.0000,  
0.9466

■ 42.6757, 54.8649,  
102.9485

■ 42.6757, 54.8649,  
102.9485

■ 40.5887, 51.8835,  
102.4830

■ 45.4843, 58.2831,  
103.4602

■ 39.3549, 49.8298,  
102.1516

■ 49.1161, 62.1878,  
104.0225

■ 53.6605, 66.6269,  
104.6398

■ 59.1941, 71.6402,  
105.3158

■ 65.7848, 77.2635,  
106.0539

■ 73.4946, 83.5291,  
106.8569

■ 82.3804, 90.4670,  
107.7277

■ 92.4953, 98.1051,  
108.6689

■ 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.



38.5558, 54.8649, 77.6778



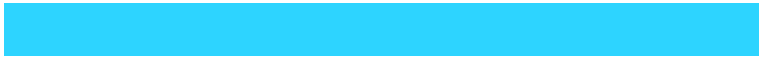
42.6757, 54.8649, 102.9485



49.6554, 54.8649, 117.5346

# Triad

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



42.6757, 54.8649, 102.9485



69.6399, 54.8649, 67.2898



46.6301, 54.8649, 26.2870

# Complementary

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



42.6757, 54.8649, 102.9485



45.2053, 28.4322, 5.5902

# 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.



54.7214, 54.8649, 24.8954



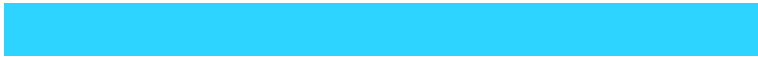
42.6757, 54.8649, 102.9485



68.6080, 54.8649, 44.7986

# Square

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



42.6757, 54.8649, 102.9485



65.6116, 54.8649, 93.6271



62.9262, 54.8649, 30.7107



40.6641, 54.8649, 35.2079



# Rectangle

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



42.6757, 54.8649, 102.9485



55.2427, 54.8649, 117.1360



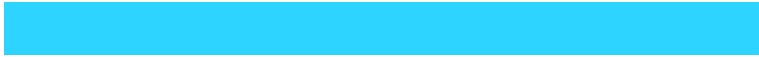
62.9262, 54.8649, 30.7107



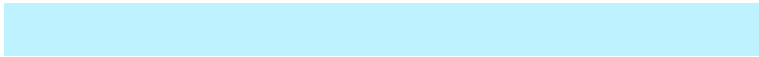
49.1700, 54.8649, 25.0375

# Sweetspot

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



42.6773, 54.8668, 102.9488



71.3348, 81.8009, 106.6371



38.5641, 72.7668, 21.0334



14.6839, 17.0347, 22.7641



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

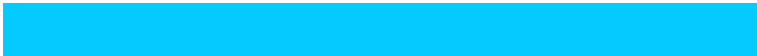


# Same Dimension

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



42.6773, 54.8668, 102.9488



39.5102, 50.0930, 102.1942



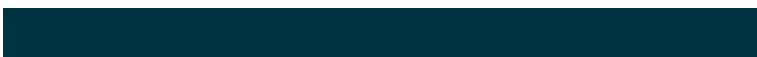
24.4973, 18.5067, 96.8887



18.2204, 19.8125, 23.1138



20.6740, 26.2576, 53.4132



2.0889, 2.7085, 5.2260



# Inverse Universe

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



54.0632, 27.8920, 64.8235



52.0837, 25.6418, 58.8955



60.5651, 59.1517, 10.7101



18.6239, 18.2329, 21.9027



27.2235, 13.3787, 30.8910

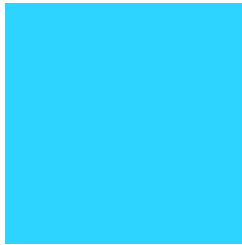


2.6890, 1.3180, 3.2096



# Previews

## White Background



This preview shows how the XYZ color 42.6757, 54.8649, 102.9485 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

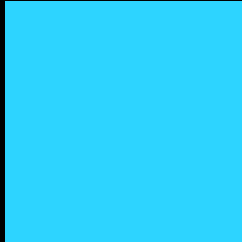
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.6757, 54.8649, 102.9485 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

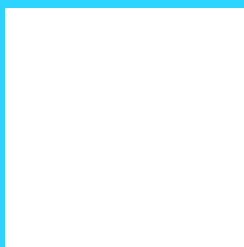
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.6757, 54.8649, 102.9485**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6757, 54.8649, 102.9485.



This preview shows how white text looks on a background with the XYZ color 42.6757, 54.8649,



# 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

42.6757, 54.8649, 102.9485

### Protanopia

54.0182, 53.9952, 90.7941

### Deuteranopia

55.0409, 53.9466, 102.1195



## Tritanopia

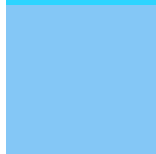
39.2638, 54.9949, 85.6365

# Trichromacy



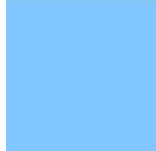
## Original Color

42.6757, 54.8649, 102.9485



## Protanomaly

46.5737, 52.4062, 94.8495



## Deuteranomaly

47.6793, 52.8127, 102.2886



## Tritanomaly

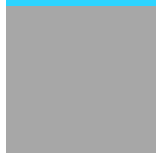
40.3913, 55.0619, 91.7183

# Monochromacy



## Original Color

42.6757, 54.8649, 102.9485



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

35.4107, 42.2014, 60.3122

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6757, 54.8649, 102.9485 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(45, 212, 255)` looks like.

```
.text, #text, p{  
    color:rgb(45, 212, 255)  
}
```

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(45, 212, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 212, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6757, 54.8649, 102.9485 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(45, 212, 255) }
```



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

```
.border{ border-color:rgb(45, 212, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 212, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 212, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 212, 255);  
box-shadow:4px 4px 4px 4px rgb(45, 212,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6757, 54.8649, 102.9485 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 212, 255) }
```

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

```
.background{ background-color: rgb(45, 212,  
255) }
```

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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