

# Converting Colors

XYZ(42.7697, 56.4908, 99.9175)

Have a look what the booklet for  
XYZ(42.7697, 56.4908, 99.9175)  
contains.

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# Color

**XYZ(42.7678, 56.4888,  
99.9161)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 26D8FB                        |
| RGB         | 38, 216, 251                  |
| RGB Percent | 15%, 85%, 98%                 |
| CMY         | 0.8509, 0.1529, 0.0157        |
| CMYK        | 0.85, 0.14, 0.00, 0.02        |
| HSL         | 190°, 96%, 57%                |
| HSV         | 190°, 85%, 98%                |
| XYZ         | 42.7678, 56.4888, 99.9161     |
| YIQ         | 166.7680, -117.3230, -26.8510 |

# Conversions

## Conversions Part 2

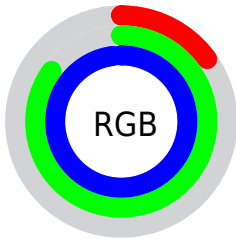
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| R <sub>Y</sub> B                    | 38, 135, 251                    |
| Decimal                             | 2545915                         |
| CIE Lab                             | 79.89, -30.18, -29.02           |
| CIE LCh                             | 80, 41.870, 223.880             |
| Yxy                                 | 56.4888, 0.2147,<br>0.2836      |
| Android<br>(android.graphics.Color) | 4280735995<br>(0xFF26D8FB)      |
| YUV                                 | 166.7680, 41.5264,<br>-112.9295 |
| Hunter-Lab                          | 75.1590, -29.9563,<br>-26.2086  |

# Details

The XYZ color **42.7678, 56.4888, 99.9161** 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 **42.5186, 25.4179, 4.5011**, and the grayscale version is **36.4675, 38.3667, 41.7813**.

A 20% lighter version of the original color is **62.1222, 83.0251, 107.3590**, and **22.4825, 29.3848, 55.5258** is the 20% darker color. If you saturate the color by 10%, you get **41.0907, 54.0761, 99.5399**, and if you desaturate by 10%, it is **45.0974, 59.2794, 100.3331**.

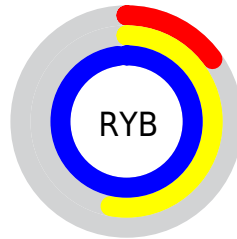
# Distribution



Red (15%)

Green (85%)

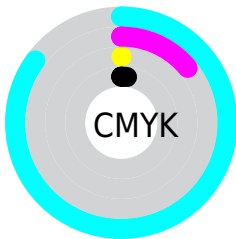
Blue (98%)



Red (15%)

Yellow (53%)

Blue (98%)

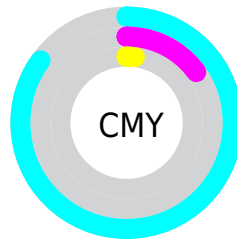


Cyan (85%)

Magenta (14%)

Yellow (0%)

Black (2%)



Cyan (85%)

Magenta (15%)

Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7678, 56.4888, 99.9161 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 42.7678, 56.4888, 99.9161 by changing the saturation by 10% instead.



42.7678, 56.4888,  
99.9161

42.7678, 56.4888,  
99.9161

348.5937,  
411.5310, 581.1680

29.8967, 40.5950,  
75.6140

78.6182, 99.7189,  
163.0928

19.9079, 28.0027,  
55.6113

102.3283,  
127.8239, 202.8044

12.4360, 18.3277,  
39.4894

130.3820,  
160.7682, 248.4895

7.1156, 11.1855,  
26.8299

163.1449,  
198.9360, 300.5668

3.5815, 6.1918,  
17.2142

200.9821,  
242.7118, 359.4548

1.4682, 2.9620,  
10.2238

244.2590,

0.3040, 1.1119,

292.4800, 425.5720

5.4400

293.3411,  
348.6249, 499.3369

■ 0.0000, 0.0000,  
2.4445

■ 0.0000, 0.0000,  
0.8105

■ 42.7678, 56.4888,  
99.9161

■ 42.7678, 56.4888,  
99.9161

■ 41.0907, 54.0761,  
99.5399

■ 45.0974, 59.2794,  
100.3331

■ 40.3986, 52.9368,  
99.3565

■ 48.1823, 62.4979,  
100.7917

■ 52.1122, 66.1920,  
101.2976

■ 56.9628, 70.4010,  
101.8544

62.8013, 75.1597,  
102.4652

69.6884, 80.4997,  
103.1329

77.6797, 86.4500,  
103.8602

86.8270, 93.0376,  
104.6496

93.8177, 98.5549,  
105.3462

# Harmonies

## Analogous

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



39.3574, 56.4888, 73.4115



42.7678, 56.4888, 99.9161



49.2868, 56.4888, 118.2070

# Triad

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



42.7678, 56.4888, 99.9161



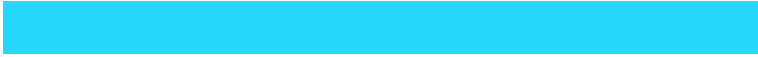
70.9410, 56.4888, 75.4149



49.8710, 56.4888, 26.3807

# Complementary

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



42.7678, 56.4888, 99.9161



42.5186, 25.4179, 4.5011

# 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.



58.3498, 56.4888, 26.6505



42.7678, 56.4888, 99.9161



71.1400, 56.4888, 50.9639

# Square

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



42.7678, 56.4888, 99.9161



65.8136, 56.4888, 101.7117



66.3315, 56.4888, 34.4691



43.1565, 56.4888, 33.5985

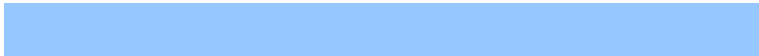


# Rectangle

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



42.7678, 56.4888, 99.9161



54.8026, 56.4888, 120.9017



66.3315, 56.4888, 34.4691



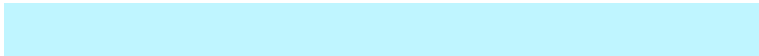
52.5943, 56.4888, 25.6720

# Sweetspot

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



42.7697, 56.4908, 99.9175



72.1073, 83.3459, 106.8946



36.4025, 69.8496, 17.3535



14.8707, 17.4085, 22.8264



0.0000, 0.0000, 0.0000

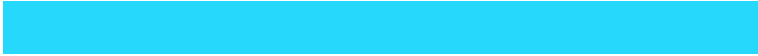


20.3446, 21.4041, 23.3091



# Same Dimension

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



42.7697, 56.4908, 99.9175



41.8683, 54.8565, 102.9894



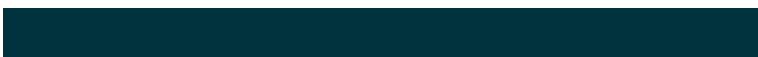
24.0701, 19.0917, 93.6843



17.5088, 19.0944, 22.1481



21.3269, 28.0094, 52.2559



2.0378, 2.7192, 4.8606



# Inverse Universe

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



52.8731, 26.8554, 67.3645



53.2624, 26.0689, 65.2389



55.7501, 51.8810, 8.9116



17.8633, 17.4727, 21.1361



27.0569, 13.2385, 33.3375

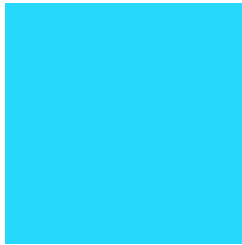


2.5375, 1.2387, 3.2539



# Previews

## White Background



This preview shows how the XYZ color 42.7678, 56.4888, 99.9161 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

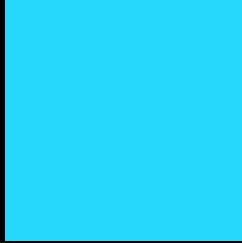
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7678, 56.4888, 99.9161 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 42.7678, 56.4888, 99.9161**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7678, 56.4888, 99.9161.



This preview shows how white text looks on a background with the XYZ color 42.7678, 56.4888,



# 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

42.7678, 56.4888, 99.9161

### Protanopia

55.1489, 55.6511, 87.1920

### Deuteranopia

56.8871, 55.5503, 102.3317



## Tritanopia

40.2117, 56.1989, 88.0850

# Trichromacy



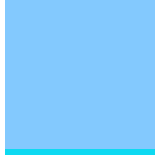
## Original Color

42.7678, 56.4888, 99.9161



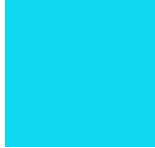
## Protanomaly

46.9060, 54.0493, 91.1794



## Deuteranomaly

48.1361, 53.7543, 101.6045



## Tritanomaly

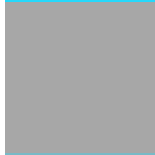
40.8711, 56.0699, 91.8875

# Monochromacy



## Original Color

42.7678, 56.4888, 99.9161



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

35.2877, 42.7682, 59.8213

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7678, 56.4888, 99.9161 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(38, 216, 251)` looks like.

```
.text, #text, p{  
    color:rgb(38, 216, 251)  
}
```

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(38, 216, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(38, 216, 251) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7678, 56.4888, 99.9161 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(38, 216, 251) }
```



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

```
.border{ border-color:rgb(38, 216, 251) }
```

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

Here you see how a box with a 4 pixel `rgb(38, 216, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(38, 216, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(38, 216, 251);  
box-shadow:4px 4px 4px 4px rgb(38, 216,  
251) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7678, 56.4888, 99.9161 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(38, 216, 251) }
```

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

```
.background{ background-color: rgb(38, 216,  
251) }
```

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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