

# Converting Colors

XYZ(72.3037, 63.8057,  
258.0288)

Have a look what the booklet for  
XYZ(72.3037, 63.8057, 258.0288)  
contains.

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# Color

**XYZ(42.7848, 52.0254,  
102.3947)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4ECCFF
RGB	78, 204, 255
RGB Percent	31%, 80%, 100%
CMY	0.6941, 0.2000, 0.0000
CMYK	0.69, 0.20, 0.00, 0.00
HSL	197°, 100%, 65%
HSV	197°, 69%, 100%
XYZ	42.7848, 52.0254, 102.3947
YIQ	172.1400, -91.4670, -10.8510

# Conversions

## Conversions Part 2

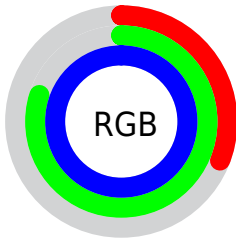
Format	Color
<a href="#">RYB</a>	<a href="#">78, 152, 255</a>
Decimal	<a href="#">5164287</a>
CIELab	<a href="#">77.30, -18.94, -35.09</a>
CIElCh	<a href="#">77, 39.877, 241.639</a>
Yxy	<a href="#">52.0254, 0.2170, 0.2638</a>
Android (android.graphics.Color)	<a href="#">4283354367 (0xFF4ECCFF)</a>
YUV	<a href="#">172.1400, 40.8500, -82.5608</a>
Hunter-Lab	<a href="#">72.1286, -20.3436, -33.6788</a>

# Details

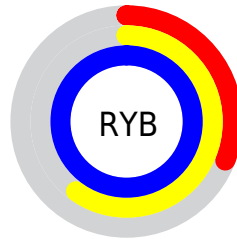
The XYZ color **42.7848, 52.0254, 102.3947** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **50.4671, 37.5133, 11.7909**, and the grayscale version is **39.1187, 41.1560, 44.8189**.

A 20% lighter version of the original color is **65.6641, 84.8510, 107.5248**, and **21.0994, 25.8899, 57.3113** is the 20% darker color. If you saturate the color by 10%, you get **39.3807, 47.7397, 101.7468**, and if you desaturate by 10%, it is **47.0838, 56.8967, 103.1083**.

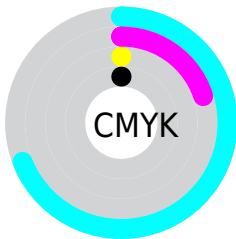
# Distribution



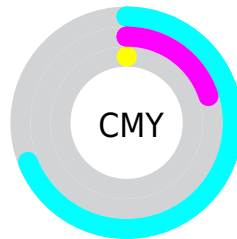
- Red (31%)
- Green (80%)
- Blue (100%)



- Red (31%)
- Yellow (60%)
- Blue (100%)



- Cyan (69%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)



- Cyan (69%)
- Magenta (20%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7848, 52.0254, 102.3947 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 42.7848, 52.0254, 102.3947 by changing the saturation by 10% instead.



■ 42.7848, 52.0254,  
102.3947

■ 42.7848, 52.0254,  
102.3947

348.6625,  
394.5347, 589.1554

■ 29.9101, 37.0253,  
77.6740

■ 78.6438, 93.1687,  
166.5247

■ 19.9181, 25.2271,  
57.2913

■ 102.3587,  
120.0807, 206.7710

■ 12.4434, 16.2463,  
40.8283

■ 130.4178,  
151.7321, 253.0296

■ 7.1208, 9.6986,  
27.8662

■ 163.1864,  
188.5074, 305.7190

■ 3.5847, 5.1996,  
17.9867

201.0298,  
230.7909, 365.2577

■ 1.4700, 2.3648,  
10.7711

244.3134,

■ 0.3053, 0.8077,

278.9670, 432.0643

5.8009

293.4025,  
333.4201, 506.5574

■ 0.0000, 0.0000,  
2.6576

■ 0.0000, 0.0000,  
0.9220

■ 42.7848, 52.0254,  
102.3947

■ 42.7848, 52.0254,  
102.3947

■ 39.3807, 47.7397,  
101.7468

■ 47.0838, 56.8967,  
103.1083

■ 36.7661, 43.9807,  
101.1591

■ 52.3579, 62.3936,  
103.8914

■ 34.7886, 40.6692,  
100.6241

■ 58.6828, 68.5578,  
104.7478

■ 34.6806, 40.4813,  
100.5935

■ 66.1255, 75.4253,  
105.6811

■ 74.7469, 83.0292,  
106.6944

■ 84.6035, 91.4000,  
107.7906

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.



37.9522, 52.0254, 81.7447



42.7848, 52.0254, 102.3947



49.8705, 52.0254, 110.0562

# Triad

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



42.7848, 52.0254, 102.3947



65.6585, 52.0254, 55.4504



42.1265, 52.0254, 27.8169

# Complementary

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



42.7848, 52.0254, 102.3947



50.4671, 37.5133, 11.7909

# 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.



49.0290, 52.0254, 24.1084



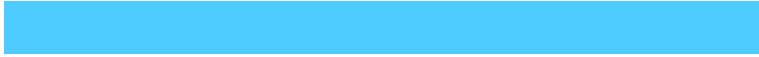
42.7848, 52.0254, 102.3947



63.0596, 52.0254, 37.2966

# Square

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



42.7848, 52.0254, 102.3947



63.5556, 52.0254, 79.1085



56.7707, 52.0254, 27.0736



37.6006, 52.0254, 38.8986



# Rectangle

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



42.7848, 52.0254, 102.3947



55.0739, 52.0254, 105.5239



56.7707, 52.0254, 27.0736



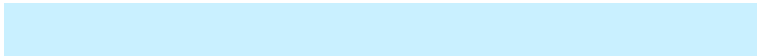
44.2200, 52.0254, 25.8174

# Sweetspot

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



42.7864, 52.0272, 102.3949



73.2922, 81.7673, 106.5275



42.8096, 74.7029, 32.6397



15.1636, 17.0432, 22.7404



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.



42.7864, 52.0272, 102.3949



38.3561, 46.3314, 101.5290



27.4798, 21.4141, 97.2927



18.0867, 19.5451, 23.0693



18.2558, 21.4212, 52.6071



1.8713, 2.2733, 5.1534



# Inverse Universe

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



54.8647, 31.0703, 60.2338



51.8559, 26.9090, 53.5086



67.3390, 71.2571, 17.4149



18.5564, 18.2059, 21.5473



26.0029, 12.8905, 24.4635

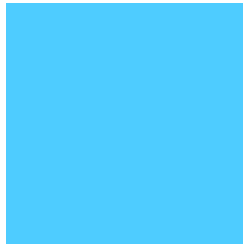


2.5792, 1.2740, 2.6312



# Previews

## White Background



This preview shows how the XYZ color 42.7848, 52.0254, 102.3947 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

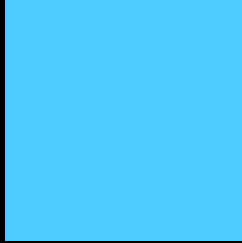
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7848, 52.0254, 102.3947 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

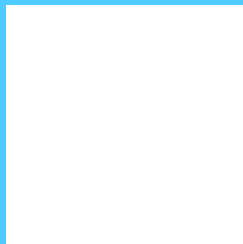
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.7848, 52.0254, 102.3947**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7848, 52.0254, 102.3947.



This preview shows how white text looks on a background with the XYZ color 42.7848, 52.0254,



# 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

42.7848, 52.0254, 102.3947

### Protanopia

51.6272, 51.1257, 91.9412

### Deuteranopia

52.3979, 51.3067, 101.7493



## Tritanopia

38.3316, 52.0217, 79.9724

# Trichromacy



**Original Color**

42.7848, 52.0254, 102.3947

**Protanomaly**

46.6737, 50.4308, 95.2698

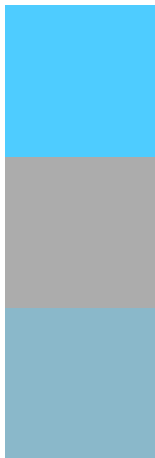
**Deuteranomaly**

47.4365, 50.6783, 101.8895

**Tritanomaly**

39.8457, 51.8983, 88.0381

# Monochromacy



**Original Color**

42.7848, 52.0254, 102.3947

**Achromatopsia**

39.2122, 41.2543, 44.9259

**Achromatomaly**

38.2824, 43.9485, 62.3423

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7848, 52.0254, 102.3947 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(78, 204, 255)` looks like.

```
.text, #text, p{  
    color:rgb(78, 204, 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(78, 204, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 204, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7848, 52.0254, 102.3947 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(78, 204, 255) }
```



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

```
.border{ border-color:rgb(78, 204, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 204, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 204, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 204, 255);  
box-shadow:4px 4px 4px 4px rgb(78, 204,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7848, 52.0254, 102.3947 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 204, 255) }
```

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

```
.background{ background-color: rgb(78, 204,  
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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