

# Converting Colors

XYZ(35.8896, 46.7973, 84.6851)

Have a look what the booklet for  
XYZ(35.8896, 46.7973, 84.6851)  
contains.

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# Color

**XYZ(35.9204, 46.7798,  
84.9781)**

# Conversions

## Conversions Part 1

Format	Color
Hex	28C6EA
RGB	40, 198, 234
RGB Percent	16%, 78%, 92%
CMY	0.8431, 0.2235, 0.0823
CMYK	0.83, 0.15, 0.00, 0.08
HSL	191°, 82%, 54%
HSV	191°, 83%, 92%
XYZ	35.9204, 46.7798, 84.9781
YIQ	154.8620, -105.7240, -22.3000

# Conversions

## Conversions Part 2

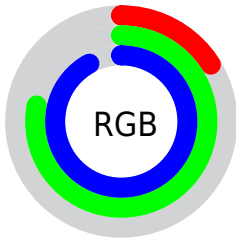
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	40, 127, 234
Decimal	2672362
CIE Lab	74.05, -26.64, -28.88
CIE LCh	74, 39.295, 227.308
Yxy	46.7798, 0.2142, 0.2790
Android (android.graphics.Color)	4280862442 (0xFF28C6EA)
YUV	154.8620, 39.0150, -100.7340
Hunter-Lab	68.3958, -25.9471, -25.7876

# Details

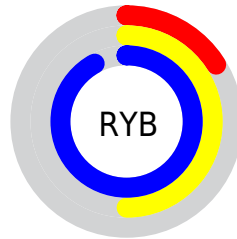
The XYZ color **35.9204, 46.7798, 84.9781** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **36.9010, 22.8172, 4.4684**, and the grayscale version is **30.9642, 32.5768, 35.4761**.

A 20% lighter version of the original color is **61.6952, 82.8049, 107.3390**, and **18.0091, 23.1609, 45.6408** is the 20% darker color. If you saturate the color by 10%, you get **34.2921, 44.4887, 84.6226**, and if you desaturate by 10%, it is **38.1298, 49.4144, 85.3711**.

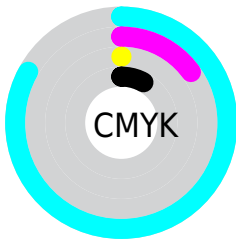
# Distribution



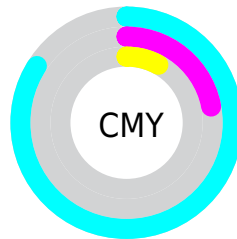
- Red (16%)
- Green (78%)
- Blue (92%)



- Red (16%)
- Yellow (50%)
- Blue (92%)



- Cyan (83%)
- Magenta (15%)
- Yellow (0%)
- Black (8%)



- Cyan (84%)
- Magenta (22%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.9204, 46.7798, 84.9781 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 35.9204, 46.7798, 84.9781 by changing the saturation by 10% instead.



35.9204, 46.7798,  
84.9781

35.9204, 46.7798,  
84.9781

320.0498,  
373.9349, 531.6983

24.5425, 32.8616,  
63.2732

68.2339, 85.3848,  
142.2165

15.8635, 22.0205,  
45.6199

89.9002, 110.8405,  
178.5871

9.5178, 13.8719,  
31.5995

115.7267,  
140.9107, 220.6833

5.1403, 8.0316,  
20.7935

146.0788,  
175.9800, 268.9237

2.3654, 4.1152,  
12.7833

181.3218,  
216.4326, 323.7269

0.8278, 1.7382,  
7.1506

221.8210,

0.0000, 0.4482,

262.6531, 385.5114

3.4766

267.9419,  
315.0257, 454.6957

■ 0.0000, 0.0000,  
1.3428

■ 0.0000, 0.0000,  
0.0965

■ 35.9204, 46.7798,  
84.9781

■ 35.9204, 46.7798,  
84.9781

■ 34.2921, 44.4887,  
84.6226

■ 38.1298, 49.4144,  
85.3711

■ 33.3900, 43.0176,  
84.3862

■ 41.0023, 52.4326,  
85.8023

■ 44.6109, 55.8732,  
86.2762

■ 49.0178, 59.7686,  
86.7958

■ 54.2784, 64.1476,  
87.3638

■ 60.4428, 69.0366,  
87.9825

■ 67.5575, 74.4597,  
88.6543

■ 75.6655, 80.4395,  
89.3812

■ 84.8071, 86.9970,  
90.1651

# Harmonies

## Analogous

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



32.7761, 46.7798, 63.3298



35.9204, 46.7798, 84.9781



41.5614, 46.7798, 98.7482

# Triad

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



35.9204, 46.7798, 84.9781



58.9811, 46.7798, 59.9136



40.5649, 46.7798, 22.2150

# Complementary

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



35.9204, 46.7798, 84.9781



36.9010, 22.8172, 4.4684

# 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.



47.4962, 46.7798, 21.7545



35.9204, 46.7798, 84.9781



58.6418, 46.7798, 40.2736

# Square

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



35.9204, 46.7798, 84.9781



55.1455, 46.7798, 81.9168



54.2623, 46.7798, 27.4689



35.2573, 46.7798, 28.9544



# Rectangle

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



35.9204, 46.7798, 84.9781



46.2029, 46.7798, 99.7322



54.2623, 46.7798, 27.4689



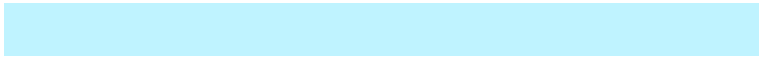
42.7670, 46.7798, 21.3988

# Sweetspot

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



35.9220, 46.7815, 84.9793



71.7001, 82.5315, 106.7589



31.5890, 59.8138, 16.6419



14.7722, 17.2114, 22.7935



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

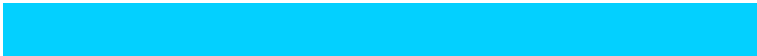


# Same Dimension

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



35.9220, 46.7815, 84.9793



40.6747, 52.4220, 102.5824



20.4244, 15.7864, 79.8134



15.2662, 16.6189, 19.3254



18.8497, 24.3464, 47.4488



1.5416, 2.0348, 3.7464



# Inverse Universe

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



44.8849, 23.0888, 55.5186



52.6715, 25.8769, 61.9908



49.1773, 47.3697, 8.5605



15.5879, 15.2630, 18.3813



24.3697, 11.9506, 28.8121

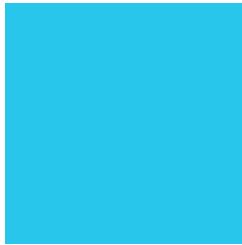


1.9446, 0.9508, 2.4259



# Previews

## White Background



This preview shows how the XYZ color 35.9204, 46.7798, 84.9781 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

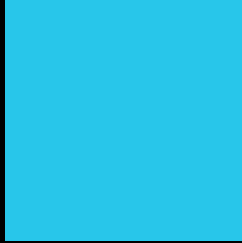
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.9204, 46.7798, 84.9781 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

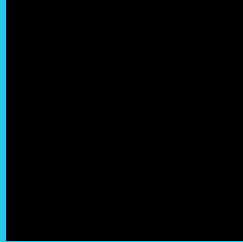
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 35.9204, 46.7798, 84.9781**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.9204, 46.7798, 84.9781.



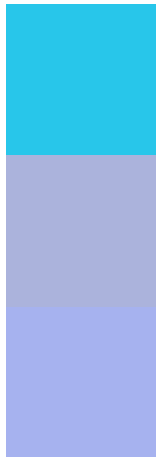
This preview shows how white text looks on a background with the XYZ color 35.9204, 46.7798,



# 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

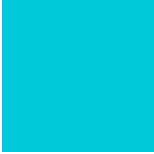
35.9204, 46.7798, 84.9781

### Protanopia

45.8330, 46.0654, 74.1860

### Deuteranopia

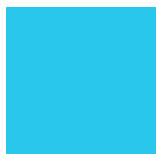
47.2263, 46.1798, 88.0859



## **Tritanopia**

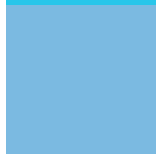
33.4110, 46.7830, 72.9147

# Trichromacy



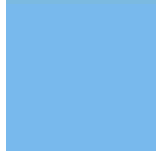
## Original Color

35.9204, 46.7798, 84.9781



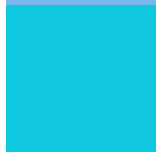
## Protanomaly

39.3179, 44.7650, 77.8024



## Deuteranomaly

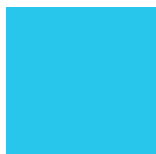
40.3808, 44.8054, 86.6408



## Tritanomaly

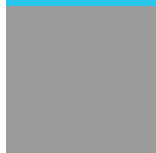
34.1706, 46.7378, 77.0324

# Monochromacy



## Original Color

35.9204, 46.7798, 84.9781



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

30.0247, 36.0972, 50.7324

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.9204, 46.7798, 84.9781 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(40, 198, 234)` looks like.

```
.text, #text, p{  
    color:rgb(40, 198, 234)  
}
```

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(40, 198, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 198, 234) }
```

## Border

The CSS property to change the border of an element to XYZ 35.9204, 46.7798, 84.9781 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(40, 198, 234) }
```



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

```
.border{ border-color:rgb(40, 198, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 198, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 198, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 198, 234);  
box-shadow:4px 4px 4px 4px rgb(40, 198,  
234) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.9204, 46.7798, 84.9781 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 198, 234) }
```

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

```
.background{ background-color: rgb(40, 198,  
234) }
```

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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