

# Converting Colors

XYZ(28.1844, 39.5034, 70.8592)

Have a look what the booklet for  
XYZ(28.1844, 39.5034, 70.8592)  
contains.

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# Color

**XYZ(30.1650, 40.4985,  
71.1929)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BBD8
RGB	0, 187, 216
RGB Percent	0%, 73%, 85%
CMY	0.9998, 0.2667, 0.1529
CMYK	1.00, 0.13, 0.00, 0.15
HSL	188°, 100%, 42%
HSV	188°, 100%, 85%
XYZ	30.1650, 40.4985, 71.1929
YIQ	134.3930, -120.7610, -30.6250

# Conversions

## Conversions Part 2

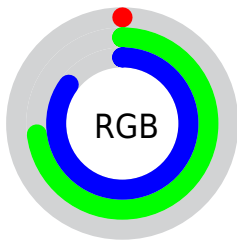
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 100, 216
Decimal	48088
CIELab	69.82, -28.87, -25.62
CIELCh	70, 38.599, 221.583
Yxy	40.4985, 0.2126, 0.2855
Android (android.graphics.Color)	4278238168 (0xFF00BBD8)
YUV	134.3930, 40.2323, -117.8627
Hunter-Lab	63.6384, -26.7572, -21.7814

# Details

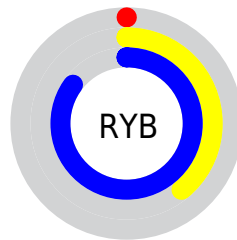
The XYZ color **30.1650, 40.4985, 71.1929** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed azure. A complement of this color would be **28.7602, 15.4805, 1.4737**, and the grayscale version is **22.6992, 23.8814, 26.0068**.

A 20% lighter version of the original color is **56.0445, 74.3854, 106.0117**, and **14.8206, 19.3483, 36.6717** is the 20% darker color. If you saturate the color by 10%, you get **30.1641, 40.4965, 71.1934**, and if you desaturate by 10%, it is **31.1106, 41.9095, 71.4162**.

# Distribution



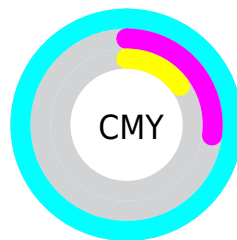
- Red (0%)
- Green (73%)
- Blue (85%)



- Red (0%)
- Yellow (39%)
- Blue (85%)



- Cyan (100%)
- Magenta (13%)
- Yellow (0%)
- Black (15%)



- Cyan (100%)
- Magenta (27%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.1650, 40.4985, 71.1929 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 30.1650, 40.4985, 71.1929 by changing the saturation by 10% instead.



30.1650, 40.4985,  
71.1929

30.1650, 40.4985,  
71.1929

294.5688,  
348.2202, 483.6293

20.1126, 27.9274,  
52.0168

59.3079, 75.9220,  
122.6054

12.5856, 18.2710,  
36.6362

79.1290, 99.5433,  
155.6789

7.2189, 11.1447,  
24.6323

102.9370,  
127.6167, 194.2219

3.6469, 6.1642,  
15.5868

131.0974,  
160.5267, 238.6530

1.5044, 2.9452,  
9.0811

163.9754,  
198.6576, 289.3908

0.3288, 1.1032,  
4.6966

201.9364,

0.0000, 0.0000,

242.3939, 346.8537

2.0147

245.3458,  
292.1200, 411.4604

■ 0.0000, 0.0000,  
0.5643

■ 0.0000, 0.0000,  
0.0000

■ 30.1650, 40.4985,  
71.1929

■ 30.1650, 40.4985,  
71.1929

■ 30.1641, 40.4965,  
71.1934

■ 31.1106, 41.9095,  
71.4162

■ 32.4283, 43.5302,  
71.6596

■ 34.2384, 45.4233,  
71.9296

■ 36.6071, 47.6232,  
72.2294

■ 39.5904, 50.1588,  
72.5615

■ 43.2373, 53.0554,  
72.9284

■ 47.5918, 56.3360,  
73.3321

■ 52.6940, 60.0212,  
73.7745

■ 58.5812, 64.1303,  
74.2574

# Harmonies

## Analogous

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



27.8543, 40.4985, 51.3938



30.1650, 40.4985, 71.1929



34.8100, 40.4985, 85.6079

# Triad

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



30.1650, 40.4985, 71.1929



51.0937, 40.4985, 55.9213



36.1237, 40.4985, 18.1936

# Complementary

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



30.1650, 40.4985, 71.1929



28.7602, 15.4805, 1.4737

# 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.



42.4262, 40.4985, 18.7901



30.1650, 40.4985, 71.1929



51.5440, 40.4985, 37.5239

# Square

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



30.1650, 40.4985, 71.1929



47.0562, 40.4985, 75.2717



48.2271, 40.4985, 24.9294



31.0366, 40.4985, 22.9930



# Rectangle

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



30.1650, 40.4985, 71.1929



38.8264, 40.4985, 88.3671



48.2271, 40.4985, 24.9294



38.1608, 40.4985, 17.8141

# Sweetspot

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



30.1663, 40.4999, 71.1939



69.0949, 81.8840, 106.7713



24.7767, 49.2006, 9.3433



14.1867, 17.0780, 22.7986



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

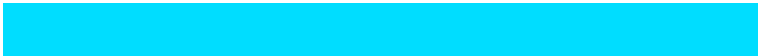


# Same Dimension

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



30.1663, 40.4999, 71.1939



43.8423, 58.8047, 103.6474



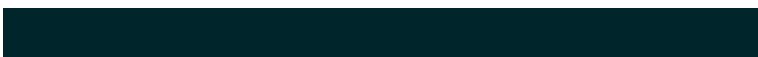
15.2084, 10.5841, 66.2079



12.6434, 13.8101, 15.9368



17.9117, 24.0853, 42.1580



1.1206, 1.5333, 2.5562



# Inverse Universe

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



37.2897, 18.1882, 48.5603



54.2588, 26.4675, 70.4860



37.2397, 32.4395, 4.3002



12.8779, 12.6027, 15.2975



22.0999, 10.7763, 28.8937



1.3533, 0.6581, 1.8498



# Previews

## White Background



This preview shows how the XYZ color 30.1650, 40.4985, 71.1929 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

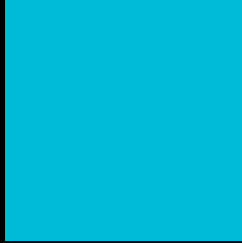
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 30.1650, 40.4985, 71.1929 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

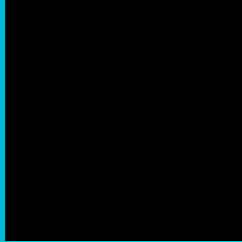
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 30.1650, 40.4985, 71.1929**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.1650, 40.4985, 71.1929.



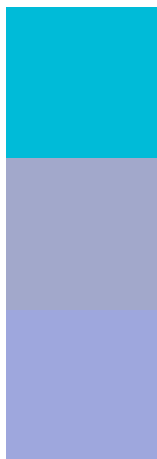
This preview shows how white text looks on a background with the XYZ color 30.1650, 40.4985,



# 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

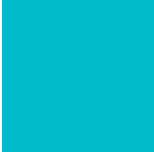
30.1650, 40.4985, 71.1929

### Protanopia

39.6824, 39.9984, 62.1289

### Deuteranopia

40.9704, 40.1270, 73.9925



## **Tritanopia**

28.7627, 40.2782, 62.7584

# Trichromacy



## Original Color

30.1650, 40.4985, 71.1929



## Protanomaly

32.3087, 38.0976, 65.3252



## Deuteranomaly

33.2891, 38.1533, 72.6276



## Tritanomaly

29.3684, 40.5205, 65.9479

# Monochromacy



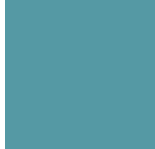
## Original Color

30.1650, 40.4985, 71.1929



## Achromatopsia

22.6597, 23.8398, 25.9615



## Achromatomaly

21.8384, 27.3941, 39.2585

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.1650, 40.4985, 71.1929 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(0, 187, 216)` looks like.

```
.text, #text, p{  
    color:rgb(0, 187, 216)  
}
```

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(0, 187, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 187, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 30.1650, 40.4985, 71.1929 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(0, 187, 216) }
```



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

```
.border{ border-color:rgb(0, 187, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 187, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 187, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 187, 216);  
box-shadow:4px 4px 4px 4px rgb(0, 187,  
216) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.1650, 40.4985, 71.1929 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 187, 216) }
```

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

```
.background{ background-color: rgb(0, 187,  
216) }
```

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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