

# Converting Colors

XYZ(31.0611, 46.9730, 57.0567)

Have a look what the booklet for  
XYZ(31.0611, 46.9730, 57.0567)  
contains.

<b>XYZ(31.1073, 46.9915, 57.2999)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(31.1073, 46.9915,  
57.2999)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CCCC
RGB	0, 204, 192
RGB Percent	0%, 80%, 75%
CMY	0.9998, 0.2000, 0.2471
CMYK	1.00, 0.00, 0.06, 0.20
HSL	176°, 100%, 40%
HSV	176°, 100%, 80%
XYZ	31.1073, 46.9915, 57.2999
YIQ	141.6360, -117.7320, -46.9800

# Conversions

## Conversions Part 2

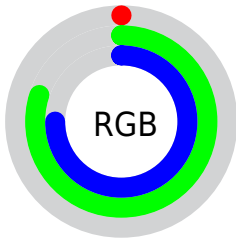
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 105, 204
Decimal	52416
CIELab	74.18, -44.16, -5.98
CIELCh	74, 44.558, 187.714
Yxy	46.9915, 0.2297, 0.3471
Android (android.graphics.Color)	4278242496 (0xFF00CC0)
YUV	141.6360, 24.8295, -124.2148
Hunter-Lab	68.5503, -38.9620, -1.5741

# Details

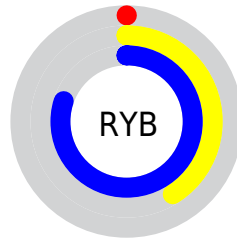
The XYZ color **31.1073, 46.9915, 57.2999** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **24.9697, 12.8653, 1.5164**, and the grayscale version is **25.5113, 26.8399, 29.2286**.

A 20% lighter version of the original color is **58.5290, 81.3006, 101.4147**, and **15.4076, 23.3590, 28.1228** is the 20% darker color. If you saturate the color by 10%, you get **31.1079, 46.9929, 57.2996**, and if you desaturate by 10%, it is **31.5393, 47.1998, 58.0184**.

# Distribution



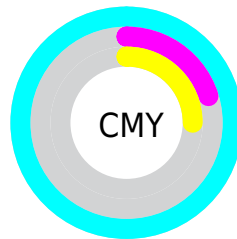
- Red (0%)
- Green (80%)
- Blue (75%)



- Red (0%)
- Yellow (41%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (6%)
- Black (20%)



- Cyan (100%)
- Magenta (20%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1073, 46.9915, 57.2999 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 31.1073, 46.9915, 57.2999 by changing the saturation by 10% instead.



31.1073, 46.9915,  
57.2999

31.1073, 46.9915,  
57.2999

298.8504,  
374.7806, 432.0973

20.8328, 33.0289,  
40.8351

60.7837, 85.7009,  
102.4073

13.1136, 22.1486,  
27.8715

80.9162, 111.2166,  
131.8870

7.5844, 13.9661,  
17.9906

105.0655,  
141.3521, 166.5421

3.8797, 8.0971,  
10.7739

133.5969,  
176.4918, 206.7912

1.6343, 4.1572,  
5.8028

166.8757,  
217.0201, 253.0526

0.4146, 1.7619,  
2.6587

205.2673,

0.0000, 0.4632,

263.3214, 305.7451

0.9225

249.1371,  
315.7801, 365.2872

■ 0.0000, 0.0000,  
0.0000

■ 31.1073, 46.9915,  
57.2999

■ 31.1073, 46.9915,  
57.2999

■ 31.1079, 46.9929,  
57.2996

■ 31.5393, 47.1998,  
58.0184

■ 32.2846, 47.5685,  
58.7562

■ 33.4516, 48.1544,  
59.5194

■ 35.0977, 48.9872,  
60.3107

■ 37.2714, 50.0918,  
61.1324

■ 40.0150, 51.4902,  
61.9866

■ 43.3668, 53.2019,  
62.8749

■ 47.3617, 55.2450,  
63.7991

■ 52.0318, 57.6361,  
64.7607

# Harmonies

## Analogous

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



31.9063, 46.9915, 36.2315



31.1073, 46.9915, 57.2999



33.5823, 46.9915, 83.0660

# Triad

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



31.1073, 46.9915, 57.2999



54.7336, 46.9915, 94.4476



50.7456, 46.9915, 20.3028

# Complementary

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



31.1073, 46.9915, 57.2999



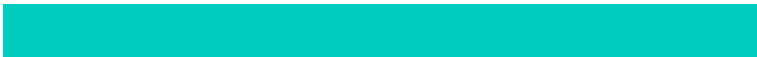
24.9697, 12.8653, 1.5164

# 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.



57.9493, 46.9915, 28.6993



31.1073, 46.9915, 57.2999



60.4364, 46.9915, 69.7258

# Square

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



31.1073, 46.9915, 57.2999



46.7574, 46.9915, 108.3049



61.6784, 46.9915, 45.4858



42.6340, 46.9915, 18.7830



# Rectangle

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



31.1073, 46.9915, 57.2999



36.9520, 46.9915, 98.0884



61.6784, 46.9915, 45.4858



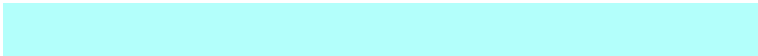
53.3806, 46.9915, 22.2607

# Sweetspot

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



31.1087, 46.9933, 57.3010



71.5687, 87.9777, 104.0622



21.7694, 43.2778, 7.2073



14.7879, 18.5597, 22.1378



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.



31.1087, 46.9933, 57.3010



51.4875, 77.8110, 94.7397



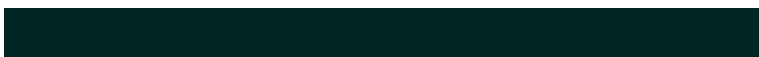
17.1016, 16.7633, 59.4629



11.5137, 12.7152, 14.2623



19.5913, 29.5818, 36.1284



1.0196, 1.5296, 1.9105



# Inverse Universe

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



24.9697, 12.8653, 1.5164



41.3263, 21.2945, 2.3842



28.4276, 19.8873, 2.3415



11.2386, 11.2242, 11.7913



15.7270, 8.1014, 1.0149

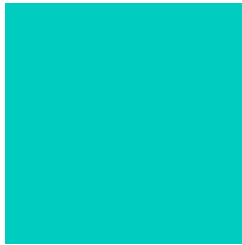


0.8209, 0.4218, 0.1028



# Previews

## White Background



This preview shows how the XYZ color 31.1073, 46.9915, 57.2999 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 31.1073, 46.9915, 57.2999 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

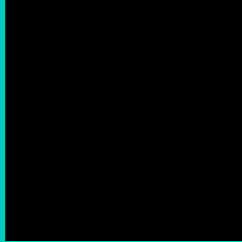
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

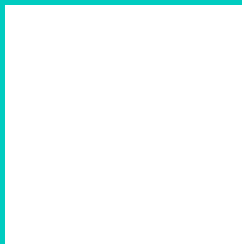
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.1073, 46.9915, 57.2999**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.1073, 46.9915, 57.2999.



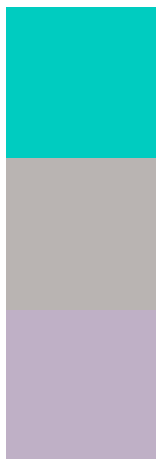
This preview shows how white text looks on a background with the XYZ color 31.1073, 46.9915,



# 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

31.1073, 46.9915, 57.2999

### Protanopia

44.3647, 46.1712, 48.6931

### Deuteranopia

47.2042, 46.2043, 59.8565



## Tritanopia

34.3510, 46.9226, 72.8921

# Trichromacy



## Original Color

31.1073, 46.9915, 57.2999



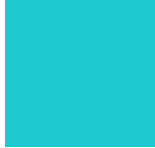
## Protanomaly

34.2161, 43.6656, 51.4247



## Deuteranomaly

35.5488, 43.2409, 58.6973



## Tritanomaly

32.8072, 46.6034, 66.9407

# Monochromacy



## Original Color

31.1073, 46.9915, 57.2999



## Achromatopsia

25.7108, 27.0498, 29.4572



## Achromatomaly

24.0167, 31.6220, 38.0955

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1073, 46.9915, 57.2999 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, 204, 192)` looks like.

```
.text, #text, p{  
    color:rgb(0, 204, 192)  
}
```

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, 204, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 204, 192) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1073, 46.9915, 57.2999 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, 204, 192) }
```



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

```
.border{ border-color:rgb(0, 204, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 204, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 204, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 204, 192);  
box-shadow:4px 4px 4px 4px rgb(0, 204,  
192) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1073, 46.9915, 57.2999 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 204, 192) }
```

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

```
.background{ background-color: rgb(0, 204,  
192) }
```

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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