

# Converting Colors

XYZ(37.9915, 56.3430, 73.2115)

Have a look what the booklet for  
XYZ(37.9915, 56.3430, 73.2115)  
contains.

<b>XYZ(37.8589, 56.0927, 73.1216)</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(37.8589, 56.0927,  
73.1216)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00DCD7
RGB	0, 220, 215
RGB Percent	0%, 86%, 84%
CMY	0.9998, 0.1372, 0.1569
CMYK	1.00, 0.00, 0.02, 0.14
HSL	179°, 100%, 43%
HSV	179°, 100%, 86%
XYZ	37.8589, 56.0927, 73.1216
YIQ	153.6500, -129.5150, -48.1950

# Conversions

## Conversions Part 2

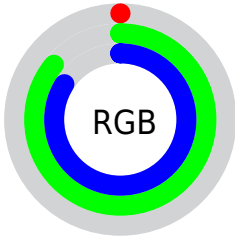
Format	Color
<b>RYB</b>	0, 111, 220
Decimal	56535
CIELab	79.67, -44.47, -10.20
CIELCh	80, 45.625, 192.919
Yxy	56.0927, 0.2266, 0.3357
Android (android.graphics.Color)	4278246615 (0xFF00DCD7)
YUV	153.6500, 30.2456, -134.7510
Hunter-Lab	74.8951, -40.8359, -5.4595

# Details

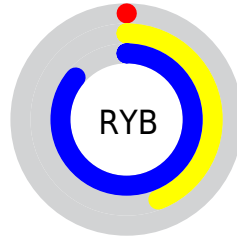
The XYZ color **37.8589, 56.0927, 73.1216** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **29.5444, 15.2282, 1.5272**, and the grayscale version is **30.4811, 32.0685, 34.9226**.

A 20% lighter version of the original color is **60.3655, 82.1195, 107.2768**, and **19.6206, 29.0890, 37.8383** is the 20% darker color. If you saturate the color by 10%, you get **37.8599, 56.0944, 73.1222**, and if you desaturate by 10%, it is **38.2563, 56.2914, 73.4776**.

# Distribution



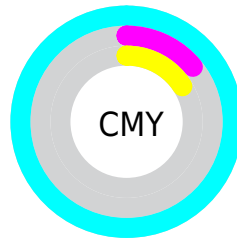
- Red (0%)
- Green (86%)
- Blue (84%)



- Red (0%)
- Yellow (44%)
- Blue (86%)



- Cyan (100%)
- Magenta (0%)
- Yellow (2%)
- Black (14%)



- Cyan (100%)
- Magenta (14%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8589, 56.0927, 73.1216 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 37.8589, 56.0927, 73.1216 by changing the saturation by 10% instead.



37.8589, 56.0927,  
73.1216

37.8589, 56.0927,  
73.1216

328.3056,  
410.0408, 490.5182

26.0499, 40.2773,  
53.5830

71.1971, 99.1401,  
125.3723

16.9939, 27.7548,  
37.8774

93.4570, 127.1408,  
158.9215

10.3254, 18.1409,  
25.5865

119.9313,  
159.9721, 197.9780

5.6791, 11.0512,  
16.2916

150.9853,  
198.0184, 242.9603

2.6898, 6.1013,  
9.5741

186.9844,  
241.6640, 294.2869

0.9919, 2.9068,  
5.0156

228.2939,

0.0000, 1.0832,

291.2933, 352.3764

2.1975

275.2792,  
347.2908, 417.6473

■ 0.0000, 0.0000,  
0.6729

■ 0.0000, 0.0000,  
0.0000

■ 37.8589, 56.0927,  
73.1216

■ 37.8589, 56.0927,  
73.1216

■ 37.8599, 56.0944,  
73.1222

■ 38.2563, 56.2914,  
73.4776

■ 39.0297, 56.6826,  
73.8509

■ 40.3038, 57.3319,  
74.2487

■ 42.1479, 58.2751,  
74.6742

■ 44.6204, 59.5422,  
75.1302

■ 47.7727, 61.1597,  
75.6190

■ 51.6507, 63.1513,  
76.1428

■ 56.2964, 65.5387,  
76.7035

■ 61.7486, 68.3417,  
77.3031

# Harmonies

## Analogous

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



38.1243, 56.0927, 47.3654



37.8589, 56.0927, 73.1216



41.3765, 56.0927, 102.4970

# Triad

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



37.8589, 56.0927, 73.1216



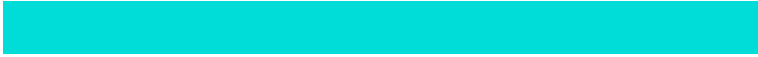
66.2960, 56.0927, 106.2171



58.6832, 56.0927, 24.3095

# Complementary

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



37.8589, 56.0927, 73.1216



29.5444, 15.2282, 1.5272

# 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.



67.3526, 56.0927, 32.6554



37.8589, 56.0927, 73.1216



72.0828, 56.0927, 77.2044

# Square

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



37.8589, 56.0927, 73.1216



57.3696, 56.0927, 124.9902



72.4903, 56.0927, 50.4307



49.4550, 56.0927, 23.7976



# Rectangle

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



37.8589, 56.0927, 73.1216



45.6569, 56.0927, 118.2270



72.4903, 56.0927, 50.4307



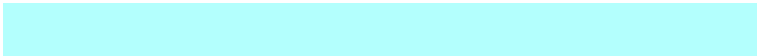
61.7836, 56.0927, 26.1512

# Sweetspot

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



37.8606, 56.0948, 73.1230



72.0062, 88.1527, 106.3662



25.6867, 51.2358, 8.5370



14.8945, 18.6023, 22.6990



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.



37.8606, 56.0948, 73.1230



52.8903, 78.3721, 102.1271



19.3222, 17.9737, 70.1633



13.4314, 14.8242, 16.7348



22.2248, 32.9225, 42.9448



1.4440, 2.1345, 2.8040



# Inverse Universe

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



29.5444, 15.2282, 1.5272



41.2718, 21.2727, 2.0973



34.3362, 24.8558, 2.9893



13.0680, 13.0563, 13.6193



17.3438, 8.9385, 0.9244

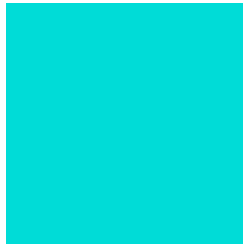


1.1279, 0.5808, 0.0826



# Previews

## White Background



This preview shows how the XYZ color 37.8589, 56.0927, 73.1216 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 37.8589, 56.0927, 73.1216 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

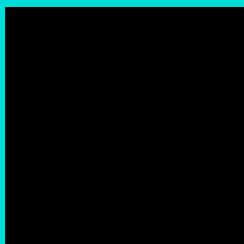
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

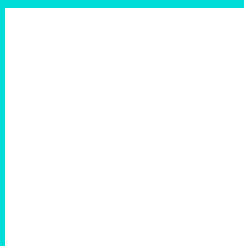
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.8589, 56.0927, 73.1216**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.8589, 56.0927, 73.1216.



This preview shows how white text looks on a background with the XYZ color 37.8589, 56.0927,



# 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

37.8589, 56.0927, 73.1216

### Protanopia

53.2291, 55.2061, 62.4939

### Deuteranopia

56.3105, 55.1786, 76.0893



## Tritanopia

40.8470, 56.1593, 87.2842

# Trichromacy



## Original Color

37.8589, 56.0927, 73.1216



## Protanomaly

41.2165, 52.0291, 65.6279



## Deuteranomaly

42.9600, 52.0227, 74.7950



## Tritanomaly

39.5539, 55.9911, 82.1214

# Monochromacy



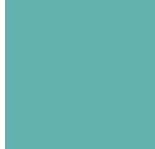
## Original Color

37.8589, 56.0927, 73.1216



## Achromatopsia

30.7148, 32.3143, 35.1903



## Achromatomaly

28.7939, 37.5720, 46.8088

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8589, 56.0927, 73.1216 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, 220, 215)` looks like.

```
.text, #text, p{  
    color:rgb(0, 220, 215)  
}
```

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, 220, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 220, 215) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8589, 56.0927, 73.1216 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, 220, 215) }
```



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

```
.border{ border-color:rgb(0, 220, 215) }
```

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

Here you see how a box with a 4 pixel rgb(0, 220, 215) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 220, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 220, 215);  
box-shadow:4px 4px 4px 4px rgb(0, 220,  
215) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.8589, 56.0927, 73.1216 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 220, 215) }
```

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

```
.background{ background-color: rgb(0, 220,  
215) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor