

# Converting Colors

XYZ(38.9568, 56.8501, 77.9218)

Have a look what the booklet for  
XYZ(38.9568, 56.8501, 77.9218)  
contains.

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# Color

**XYZ(39.0413, 56.9868,  
78.0491)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00DDDE
RGB	0, 221, 222
RGB Percent	0%, 87%, 87%
CMY	0.9998, 0.1333, 0.1294
CMYK	1.00, 0.00, 0.00, 0.13
HSL	180°, 100%, 44%
HSV	180°, 100%, 87%
XYZ	39.0413, 56.9868, 78.0491
YIQ	155.0350, -132.0370, -46.5410

# Conversions

## Conversions Part 2

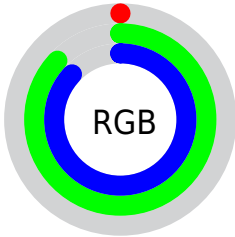
Format	Color
<b>RYB</b>	0, 111, 222
Decimal	56798
CIELab	80.17, -42.86, -13.18
CIELCh	80, 44.839, 197.091
Yxy	56.9868, 0.2243, 0.3274
Android (android.graphics.Color)	4278246878 (0xFF00DDDE)
YUV	155.0350, 33.0137, -135.9657
Hunter-Lab	75.4896, -39.7911, -8.4575

# Details

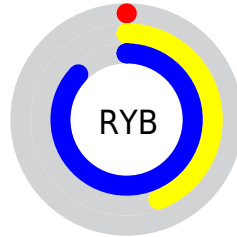
The XYZ color **39.0413, 56.9868, 78.0491** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **30.1365, 15.5530, 1.4154**, and the grayscale version is **31.0803, 32.6988, 35.6090**.

A 20% lighter version of the original color is **60.4921, 82.1847, 107.2827**, and **20.4302, 29.7003, 41.2152** is the 20% darker color. If you saturate the color by 10%, you get **39.0422, 56.9884, 78.0504**, and if you desaturate by 10%, it is **39.4053, 57.2148, 78.0750**.

# Distribution



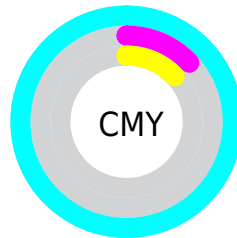
- Red (0%)
- Green (87%)
- Blue (87%)



- Red (0%)
- Yellow (44%)
- Blue (87%)



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




- Cyan (100%)
- Magenta (13%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.0413, 56.9868, 78.0491 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 39.0413, 56.9868, 78.0491 by changing the saturation by 10% instead.





 39.0413, 56.9868,  
78.0491


 39.0413, 56.9868,  
78.0491


333.2702,  
413.3998, 507.8659


 26.9727, 40.9946,  
57.5976


 72.9951, 100.4459,  
132.4058


 17.6892, 28.3149,  
41.0727


 95.6110, 128.6817,  
167.1482


 10.8254, 18.5632,  
28.0558


 122.4734,  
161.7674, 207.4912

 6.0160, 11.3551,  
18.1283

 153.9476,  
200.0876, 253.8535

 2.8956, 6.3062,  
10.8717

 190.3991,  
244.0265, 306.6536

 1.0988, 3.0321,  
5.8676

232.1931,

 0.0241, 1.1485,

293.9686, 366.3100

2.6972

279.6950,  
350.2982, 433.2412

■ 0.0000, 0.0191,  
0.9420

■ 0.0000, 0.0000,  
0.0000

■ 39.0413, 56.9868,  
78.0491

■ 39.0413, 56.9868,  
78.0491

■ 39.0422, 56.9884,  
78.0504

■ 39.4053, 57.2148,  
78.0750

■ 40.1537, 57.6398,  
78.1176

■ 41.4130, 58.3282,  
78.1841

■ 43.2544, 59.3167,  
78.2778

■ 45.7376, 60.6361,  
78.4016

■ 48.9150, 62.3134,  
78.5579

■ 52.8336, 64.3728,  
78.7489

■ 57.5364, 66.8365,  
78.9765

■ 63.0629, 69.7249,  
79.2428

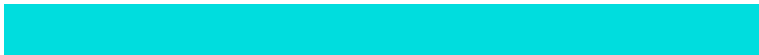
# Harmonies

## Analogous

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



38.7751, 56.9868, 51.4690



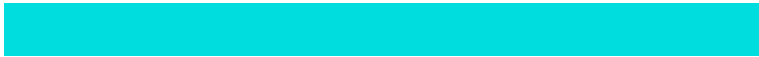
39.0413, 56.9868, 78.0491



43.0573, 56.9868, 106.7017

# Triad

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



39.0413, 56.9868, 78.0491



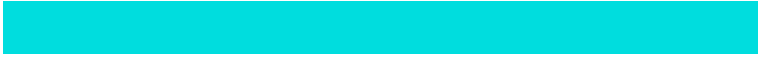
68.0845, 56.9868, 103.0171



58.1865, 56.9868, 24.7805

# Complementary

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



39.0413, 56.9868, 78.0491



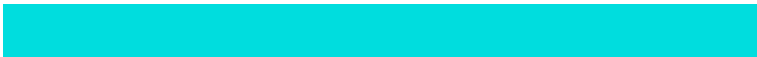
30.1365, 15.5530, 1.4154

# 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.



67.0337, 56.9868, 32.0006



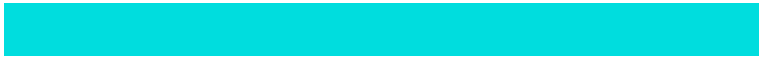
39.0413, 56.9868, 78.0491



73.1659, 56.9868, 73.9876

# Square

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



39.0413, 56.9868, 78.0491



59.4956, 56.9868, 123.6706



72.7611, 56.9868, 48.4001



49.1613, 56.9868, 25.2996



# Rectangle

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



39.0413, 56.9868, 78.0491



47.6064, 56.9868, 120.9235



72.7611, 56.9868, 48.4001



61.2983, 56.9868, 26.2728

# Sweetspot

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



39.0430, 56.9889, 78.0505



72.1753, 88.0448, 107.7981



26.1228, 52.2439, 8.7090



14.9358, 18.5760, 23.0483



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.



39.0430, 56.9889, 78.0505



53.4451, 78.0102, 106.8484



18.8736, 16.6501, 71.3273



14.1111, 15.5612, 17.6476



23.1924, 33.8543, 46.3605



1.6093, 2.3501, 3.2140



# Inverse Universe

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



43.1769, 20.7518, 70.1386



59.1058, 28.4063, 96.0101



35.8128, 26.9056, 3.3075



14.2923, 13.9345, 17.3093



25.6466, 12.3257, 41.6664

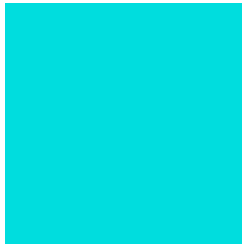


1.7786, 0.8547, 2.8927



# Previews

## White Background



This preview shows how the XYZ color 39.0413, 56.9868, 78.0491 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

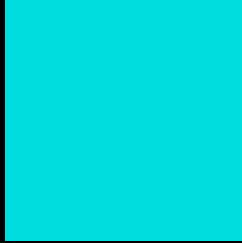
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.0413, 56.9868, 78.0491 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

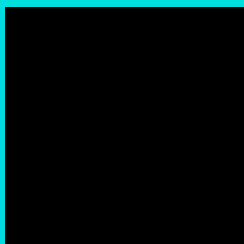
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

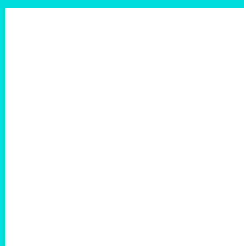
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 39.0413, 56.9868, 78.0491**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.0413, 56.9868, 78.0491.



This preview shows how white text looks on a background with the XYZ color 39.0413, 56.9868,



# 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

39.0413, 56.9868, 78.0491

### Protanopia

54.2911, 55.9906, 66.9773

### Deuteranopia

57.2103, 55.8573, 81.1650



## Tritanopia

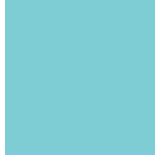
41.4543, 57.2088, 88.9783

# Trichromacy



## Original Color

39.0413, 56.9868, 78.0491



## Protanomaly

42.3192, 52.8517, 70.2583



## Deuteranomaly

44.1367, 52.8700, 79.8302



## Tritanomaly

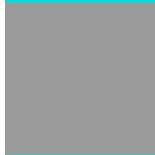
40.5596, 57.2193, 85.2506

# Monochromacy



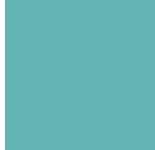
## Original Color

39.0413, 56.9868, 78.0491



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

29.4024, 38.1475, 48.4614

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.0413, 56.9868, 78.0491 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, 221, 222)` looks like.

```
.text, #text, p{  
    color:rgb(0, 221, 222)  
}
```

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, 221, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 221, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 39.0413, 56.9868, 78.0491 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, 221, 222) }
```



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

```
.border{ border-color:rgb(0, 221, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 221, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 221, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 221, 222);  
box-shadow:4px 4px 4px 4px rgb(0, 221,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.0413, 56.9868, 78.0491 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 221, 222) }
```

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

```
.background{ background-color: rgb(0, 221,  
222) }
```

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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