

# Converting Colors

XYZ(39.8823, 57.7567, 78.0480)

Have a look what the booklet for  
XYZ(39.8823, 57.7567, 78.0480)  
contains.

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# Color

**XYZ(39.9333, 57.8398,  
78.1667)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21DEDE
RGB	33, 222, 222
RGB Percent	13%, 87%, 87%
CMY	0.8705, 0.1294, 0.1294
CMYK	0.85, 0.00, 0.00, 0.13
HSL	180°, 74%, 50%
HSV	180°, 85%, 87%
XYZ	39.9333, 57.8398, 78.1667
YIQ	165.4890, -112.6440, -40.0680

# Conversions

## Conversions Part 2

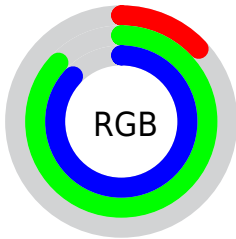
Format	Color
R <sub>Y</sub> B	33, 128, 222
Decimal	2219742
CIE Lab	80.65, -42.11, -12.44
CIE LCh	81, 43.908, 196.464
Yxy	57.8398, 0.2270, 0.3287
Android (android.graphics.Color)	4280409822 (0xFF21DEDE)
YUV	165.4890, 27.8599, -116.1929
Hunter-Lab	76.0525, -39.3659, -7.7015

# Details

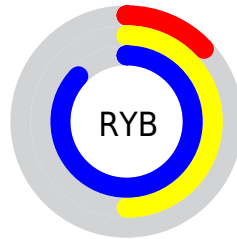
The XYZ color **39.9333, 57.8398, 78.1667** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **30.9445, 16.7290, 3.0387**, and the grayscale version is **35.9119, 37.7822, 41.1448**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **20.6113, 30.0625, 41.2755** is the 20% darker color. If you saturate the color by 10%, you get **39.4428, 57.5882, 78.1449**, and if you desaturate by 10%, it is **40.8949, 58.3368, 78.2132**.

# Distribution



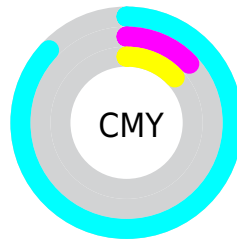
- Red (13%)
- Green (87%)
- Blue (87%)



- Red (13%)
- Yellow (50%)
- Blue (87%)



- Cyan (85%)
- Magenta (0%)
- Yellow (0%)
- Black (13%)




- Cyan (87%)
- Magenta (13%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.9333, 57.8398, 78.1667 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 39.9333, 57.8398, 78.1667 by changing the saturation by 10% instead.





 39.9333, 57.8398,  
78.1667


 39.9333, 57.8398,  
78.1667


336.9816,  
416.5887, 508.2757


 27.6705, 41.6799,  
57.6937


 74.3469, 101.6895,  
132.5731


 18.2166, 28.8507,  
41.1494

 97.2285, 130.1481,  
167.3435


 11.2063, 18.9679,  
28.1152


 124.3803,  
163.4751, 207.7169

 6.2741, 11.6471,  
18.1727

 156.1678,  
202.0547, 254.1116

 3.0547, 6.5039,  
10.9034

 192.9564,  
246.2716, 306.9463

 1.1827, 3.1538,  
5.8885

235.1113,

 0.0927, 1.2126,

296.5099, 366.6396

2.7097

282.9979,  
353.1542, 433.6098

■ 0.0000, 0.0719,  
0.9483

■ 0.0000, 0.0000,  
0.0000

■ 39.9333, 57.8398,  
78.1667

■ 39.9333, 57.8398,  
78.1667

■ 39.4428, 57.5882,  
78.1449

■ 40.8949, 58.3368,  
78.2132

■ 39.3071, 57.5182,  
78.1385

■ 42.4020, 59.1137,  
78.2838

■ 44.5212, 60.2062,  
78.3831

■ 47.3083, 61.6430,  
78.5137

■ 50.8131, 63.4498,  
78.6779

■ 55.0803, 65.6496,  
78.8777

■ 60.1511, 68.2637,  
79.1152

■ 66.0640, 71.3119,  
79.3920

■ 72.8546, 74.8126,  
79.7100

# Harmonies

## Analogous

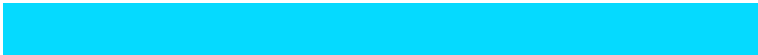
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



39.7478, 57.8398, 52.0298



39.9333, 57.8398, 78.1667



43.8499, 57.8398, 106.3998

# Triad

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



39.9333, 57.8398, 78.1667



68.5637, 57.8398, 103.8683



59.1446, 57.8398, 25.9180

# Complementary

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



39.9333, 57.8398, 78.1667



30.9445, 16.7290, 3.0387

# 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.



67.8385, 57.8398, 33.3430



39.9333, 57.8398, 78.1667



73.6656, 57.8398, 75.3628

# Square

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



39.9333, 57.8398, 78.1667



60.0501, 57.8398, 123.7986



73.3865, 57.8398, 49.8960



50.1942, 57.8398, 26.2841



# Rectangle

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



39.9333, 57.8398, 78.1667



48.3218, 57.8398, 120.5322



73.3865, 57.8398, 49.8960



62.2125, 57.8398, 27.4745

# Sweetspot

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



39.9351, 57.8420, 78.1681



74.7218, 89.5205, 107.9482



27.1305, 52.7323, 10.1889



15.5397, 18.9271, 23.0841



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.



39.9351, 57.8420, 78.1681



53.8096, 78.7399, 106.9680



21.8842, 21.7399, 72.1523



14.1166, 15.5724, 17.6494



23.3469, 34.1636, 46.4113



1.6183, 2.3680, 3.2170



# Inverse Universe

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



30.9445, 16.7290, 3.0387



41.2400, 21.2600, 1.9301



37.6533, 30.1465, 5.2748



13.7073, 13.7006, 14.2288



17.8932, 9.2243, 0.8374

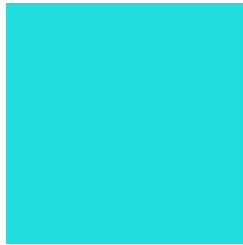


1.2403, 0.6394, 0.0581



# Previews

## White Background



This preview shows how the XYZ color 39.9333, 57.8398, 78.1667 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

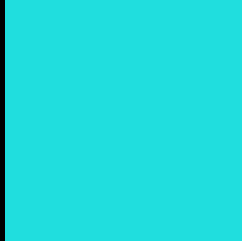
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.9333, 57.8398, 78.1667 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

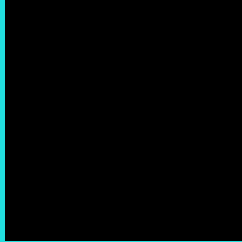
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

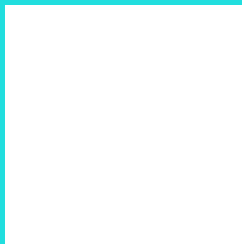
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 39.9333, 57.8398, 78.1667

## Background



This preview shows how black text looks on a background with the XYZ color 39.9333, 57.8398, 78.1667.



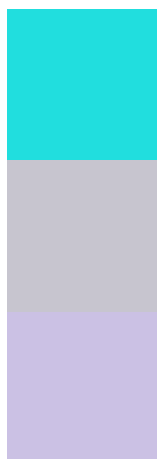
This preview shows how white text looks on a background with the XYZ color 39.9333, 57.8398,



# 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

39.9333, 57.8398, 78.1667

### Protanopia

54.7819, 56.5796, 67.0651

### Deuteranopia

57.7022, 56.4379, 81.2512



## Tritanopia

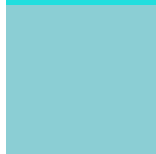
42.1947, 57.9789, 89.0879

# Trichromacy



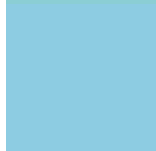
## Original Color

39.9333, 57.8398, 78.1667



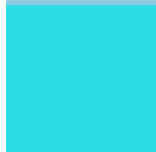
## Protanomaly

44.6024, 54.3850, 70.4339



## Deuteranomaly

46.3048, 54.3394, 79.9995



## Tritanomaly

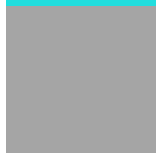
41.4606, 58.0746, 85.3682

# Monochromacy



## Original Color

39.9333, 57.8398, 78.1667



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

33.7580, 42.4449, 52.8678

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.9333, 57.8398, 78.1667 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(33, 222, 222)` looks like.

```
.text, #text, p{  
    color:rgb(33, 222, 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(33, 222, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 222, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 39.9333, 57.8398, 78.1667 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(33, 222, 222) }
```



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

```
.border{ border-color:rgb(33, 222, 222) }
```

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

Here you see how a box with a 4 pixel rgb(33, 222, 222) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 222, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 222, 222);  
box-shadow:4px 4px 4px 4px rgb(33, 222,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.9333, 57.8398, 78.1667 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 222, 222) }
```

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

```
.background{ background-color: rgb(33, 222,  
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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