

# Converting Colors

XYZ(32.7544, 52.1808, 77.2315)

Have a look what the booklet for  
XYZ(32.7544, 52.1808, 77.2315)  
contains.

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# Color

**XYZ(37.9977, 54.8996,  
77.7012)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D9DE
RGB	0, 217, 222
RGB Percent	0%, 85%, 87%
CMY	0.9998, 0.1490, 0.1294
CMYK	1.00, 0.02, 0.00, 0.13
HSL	181°, 100%, 44%
HSV	181°, 100%, 87%
XYZ	37.9977, 54.8996, 77.7012
YIQ	152.6870, -130.9370, -44.4490

# Conversions

## Conversions Part 2

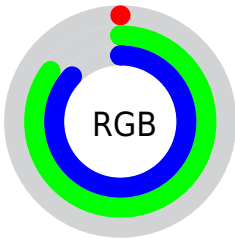
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 110, 222
Decimal	55774
CIELab	78.98, -41.08, -14.96
CIELCh	79, 43.716, 200.013
Yxy	54.8996, 0.2227, 0.3218
Android (android.graphics.Color)	4278245854 (0xFF00D9DE)
YUV	152.6870, 34.1713, -133.9065
Hunter-Lab	74.0943, -38.1250, -10.3103

# Details

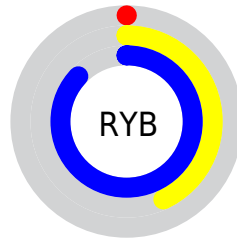
The XYZ color **37.9977, 54.8996, 77.7012** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **30.1799, 15.6398, 1.4299**, and the grayscale version is **30.0479, 31.6128, 34.4263**.

A 20% lighter version of the original color is **60.3655, 82.1195, 107.2768**, and **19.7199, 28.2798, 40.9784** is the 20% darker color. If you saturate the color by 10%, you get **37.9983, 54.9005, 77.7024**, and if you desaturate by 10%, it is **38.4644, 55.3329, 77.7613**.

# Distribution



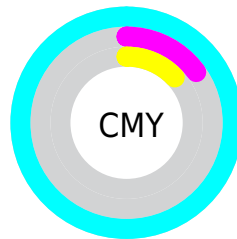
- Red (0%)
- Green (85%)
- Blue (87%)



- Red (0%)
- Yellow (43%)
- Blue (87%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (13%)




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


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.9977, 54.8996, 77.7012 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 37.9977, 54.8996, 77.7012 by changing the saturation by 10% instead.





 37.9977, 54.8996,  
77.7012


 37.9977, 54.8996,  
77.7012


328.8911,  
405.5312, 506.6525


 26.1581, 39.3213,  
57.3136


 71.4085, 97.3938,  
131.9109


 17.0753, 27.0098,  
40.8460


 93.7105, 125.0786,  
166.5700


 10.3838, 17.5806,  
27.8800


 120.2306,  
157.5677, 206.8233

 5.7184, 10.6493,  
17.9970

 151.3342,  
195.2454, 253.0894

 2.7136, 5.8315,  
10.7784

 187.3868,  
238.4963, 305.7869

 1.0042, 2.7429,  
5.8057

228.7535,

 0.0000, 0.9990,

287.7046, 365.3342

2.6604

275.7998,  
343.2548, 432.1499

■ 0.0000, 0.0000,  
0.9234

■ 0.0000, 0.0000,  
0.0000

■ 37.9977, 54.8996,  
77.7012

■ 37.9977, 54.8996,  
77.7012

■ 37.9983, 54.9005,  
77.7024

■ 38.4644, 55.3329,  
77.7613

■ 39.3158, 55.9641,  
77.8382

■ 40.6786, 56.8594,  
77.9392

■ 42.6239, 58.0556,  
78.0676

■ 45.2113, 59.5834,  
78.2261

■ 48.4933, 61.4698,  
78.4172

■ 52.5169, 63.7392,  
78.6432

■ 57.3250, 66.4135,  
78.9060

■ 62.9572, 69.5133,  
79.2074

# Harmonies

## Analogous

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



37.3891, 54.8996, 51.8525



37.9977, 54.8996, 77.7012



42.1592, 54.8996, 104.4673

# Triad

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



37.9977, 54.8996, 77.7012



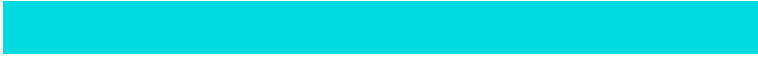
66.0636, 54.8996, 96.1179



55.1334, 54.8996, 23.9393

# Complementary

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



37.9977, 54.8996, 77.7012



30.1799, 15.6398, 1.4299

# 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.



63.6758, 54.8996, 30.0887



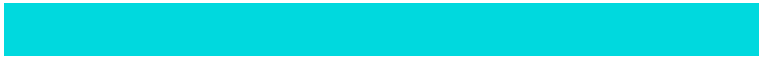
37.9977, 54.8996, 77.7012



70.4340, 54.8996, 68.4689

# Square

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



37.9977, 54.8996, 77.7012



58.1124, 54.8996, 116.9820



69.5147, 54.8996, 44.8447



46.6666, 54.8996, 25.1350



# Rectangle

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



37.9977, 54.8996, 77.7012



46.6730, 54.8996, 116.9932



69.5147, 54.8996, 44.8447



58.1049, 54.8996, 25.1310

# Sweetspot

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



37.9994, 54.9016, 77.7025



71.7379, 87.1699, 107.6522



26.1430, 52.2519, 8.8157



14.8290, 18.3626, 23.0127



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.



37.9994, 54.9016, 77.7025



52.0052, 75.1303, 106.3684



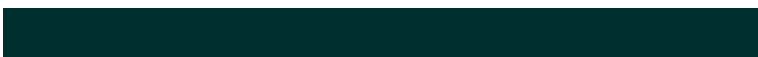
18.4782, 15.8592, 71.1955



14.0887, 15.5166, 17.6401



22.5816, 32.6328, 46.1570



1.5738, 2.2790, 3.2022



# Inverse Universe

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



42.6501, 20.5411, 67.3646



58.3790, 28.1156, 92.1828



36.2250, 27.7300, 3.4449



14.2810, 13.9300, 17.2499



25.3384, 12.2023, 40.0431

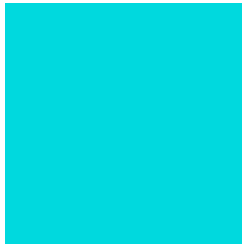


1.7606, 0.8475, 2.7982



# Previews

## White Background



This preview shows how the XYZ color 37.9977, 54.8996, 77.7012 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 37.9977, 54.8996, 77.7012 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

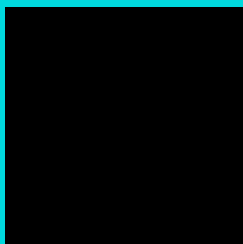
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

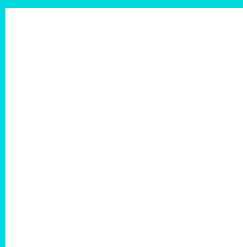
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.9977, 54.8996, 77.7012**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.9977, 54.8996, 77.7012.



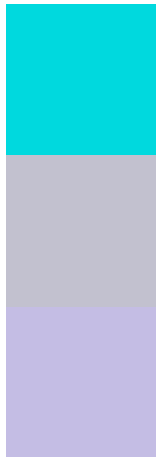
This preview shows how white text looks on a background with the XYZ color 37.9977, 54.8996,



# 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

37.9977, 54.8996, 77.7012

### Protanopia

52.5806, 54.1143, 66.7053

### Deuteranopia

54.9661, 53.7324, 80.8731



## Tritanopia

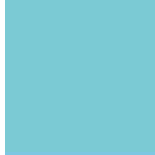
39.6681, 54.8242, 85.5822

# Trichromacy



## Original Color

37.9977, 54.8996, 77.7012



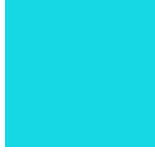
## Protanomaly

41.1726, 51.2055, 70.0010



## Deuteranomaly

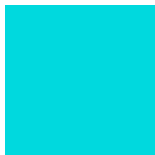
42.6083, 50.6978, 79.4915



## Tritanomaly

39.0296, 54.9394, 82.6760

# Monochromacy



## Original Color

37.9977, 54.8996, 77.7012



## Achromatopsia

30.2779, 31.8547, 34.6897



## Achromatomaly

28.4910, 36.8064, 47.7222

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.9977, 54.8996, 77.7012 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, 217, 222)` looks like.

```
.text, #text, p{  
    color:rgb(0, 217, 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, 217, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 217, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 37.9977, 54.8996, 77.7012 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, 217, 222) }
```



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

```
.border{ border-color:rgb(0, 217, 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, 217, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 217, 222); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 217, 222); box-shadow:4px 4px 4px 4px rgb(0, 217, 222) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.9977, 54.8996, 77.7012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 217, 222) }
```

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

```
.background{ background-color: rgb(0, 217,  
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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