

# Converting Colors

XYZ(37.3777, 52.7172, 70.2625)

Have a look what the booklet for  
XYZ(37.3777, 52.7172, 70.2625)  
contains.

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# Color

**XYZ(37.5415, 52.9304,  
70.5253)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40D4D4
RGB	64, 212, 212
RGB Percent	25%, 83%, 83%
CMY	0.7490, 0.1686, 0.1686
CMYK	0.70, 0.00, 0.00, 0.17
HSL	180°, 63%, 54%
HSV	180°, 70%, 83%
XYZ	37.5415, 52.9304, 70.5253
YIQ	167.7480, -88.2080, -31.3760

# Conversions

## Conversions Part 2

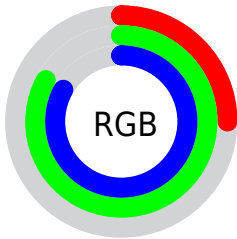
<b>Format</b>	<b>Color</b>
<b>RYB</b>	64, 138, 212
Decimal	4248788
CIELab	77.83, -37.60, -11.26
CIElCh	78, 39.252, 196.674
Yxy	52.9304, 0.2332, 0.3288
Android (android.graphics.Color)	4282438868 (0xFF40D4D4)
YUV	167.7480, 21.8162, -90.9870
Hunter-Lab	72.7533, -35.2103, -6.5470

# Details

The XYZ color **37.5415, 52.9304, 70.5253** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **29.9120, 18.0357, 6.7569**, and the grayscale version is **37.0254, 38.9536, 42.4204**.

A 20% lighter version of the original color is **63.3257, 83.6455, 107.4153**, and **18.1428, 26.5483, 36.0664** is the 20% darker color. If you saturate the color by 10%, you get **36.4164, 52.3515, 70.4737**, and if you desaturate by 10%, it is **39.1936, 53.7832, 70.6040**.

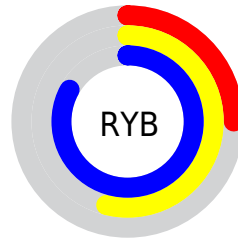
# Distribution



Red (25%)

Green (83%)

Blue (83%)



Red (25%)

Yellow (54%)

Blue (83%)

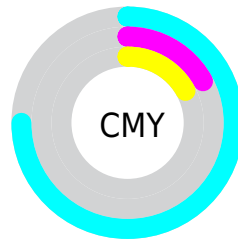


Cyan (70%)

Magenta (0%)

Yellow (0%)

Black (17%)



Cyan (75%)

Magenta (17%)

Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.5415, 52.9304, 70.5253 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 37.5415, 52.9304, 70.5253 by changing the saturation by 10% instead.



37.5415, 52.9304,  
70.5253

37.5415, 52.9304,  
70.5253

326.9640,  
398.0180, 481.2311

25.8026, 37.7472,  
51.4755

70.7133, 94.5019,  
121.6457

16.8079, 25.7866,  
36.2078

92.8769, 121.6591,  
154.5533

10.1921, 16.6640,  
24.3037

119.2461,  
153.5763, 192.9173

5.5898, 9.9952,  
15.3448

150.1863,  
190.6381, 237.1561

2.6355, 5.3958,  
8.9124

186.0628,  
233.2288, 287.6884

0.9641, 2.4813,  
4.5881

227.2411,

0.0000, 0.8673,

281.7327, 344.9326

1.9532

274.0863,  
336.5343, 409.3074

■ 0.0000, 0.0000,  
0.5263

■ 0.0000, 0.0000,  
0.0000

■ 37.5415, 52.9304,  
70.5253

■ 37.5415, 52.9304,  
70.5253

■ 36.4164, 52.3515,  
70.4737

■ 39.1936, 53.7832,  
70.6040

■ 35.7504, 52.0082,  
70.4423

■ 41.4209, 54.9315,  
70.7084

■ 35.4331, 51.8447,  
70.4273

■ 44.2718, 56.4012,  
70.8419

■ 35.4280, 51.8420,  
70.4271

■ 47.7882, 58.2139,  
71.0067

■ 52.0083, 60.3894,  
71.2043

■ 56.9674, 62.9460,  
71.4366

■ 62.6986, 65.9005,  
71.7049

■ 69.2328, 69.2690,  
72.0109

■ 76.5994, 73.0666,  
72.3558

# Harmonies

## Analogous

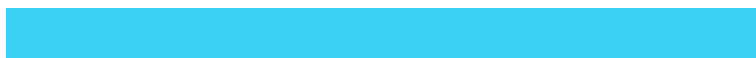
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



37.3596, 52.9304, 48.4939



37.5415, 52.9304, 70.5253



40.9130, 52.9304, 93.8506

# Triad

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



37.5415, 52.9304, 70.5253



61.7339, 52.9304, 91.4727



53.7610, 52.9304, 25.6919

# Complementary

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



37.5415, 52.9304, 70.5253



29.9120, 18.0357, 6.7569

# 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.



61.0430, 52.9304, 32.1856



37.5415, 52.9304, 70.5253



65.9498, 52.9304, 67.8520

# Square

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



37.5415, 52.9304, 70.5253



54.6294, 52.9304, 107.8800



65.6849, 52.9304, 46.4148



46.2221, 52.9304, 26.0637



# Rectangle

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



37.5415, 52.9304, 70.5253



44.7290, 52.9304, 105.3709



65.6849, 52.9304, 46.4148



56.3343, 52.9304, 27.0570

# Sweetspot

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



37.5431, 52.9324, 70.5266



78.0185, 91.2199, 108.1024



26.7489, 48.6337, 12.8293



16.3020, 19.3201, 23.1198



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.



37.5431, 52.9324, 70.5266



54.7161, 79.2072, 107.0103



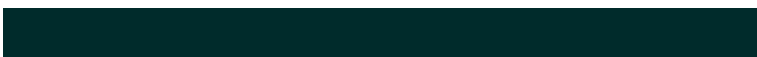
23.4464, 24.7386, 65.8287



12.7922, 14.1079, 15.9864



21.8708, 32.0037, 43.4768



1.3191, 1.9303, 2.6223



# Inverse Universe

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



29.9120, 18.0357, 6.7569



42.4228, 22.9908, 4.2815



36.8175, 31.8468, 9.0585



12.4233, 12.4208, 12.9034



16.7619, 8.6411, 0.7845

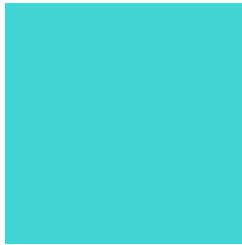


1.0110, 0.5212, 0.0473



# Previews

## White Background



This preview shows how the XYZ color 37.5415, 52.9304, 70.5253 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

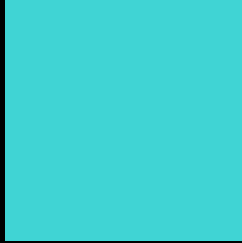
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.5415, 52.9304, 70.5253 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

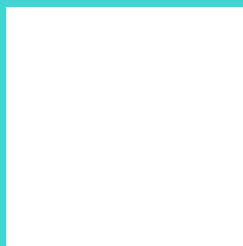
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.5415, 52.9304, 70.5253**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.5415, 52.9304, 70.5253.



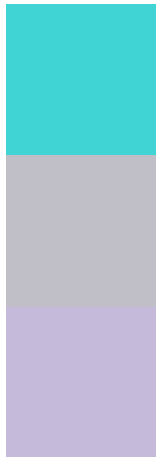
This preview shows how white text looks on a background with the XYZ color 37.5415, 52.9304,



# 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

37.5415, 52.9304, 70.5253

### Protanopia

50.3447, 52.1106, 60.8310

### Deuteranopia

53.2398, 52.0501, 73.5703



## Tritanopia

39.6594, 53.0557, 80.8236

# Trichromacy



## Original Color

37.5415, 52.9304, 70.5253



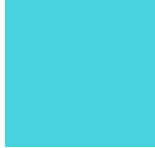
## Protanomaly

42.6506, 50.7197, 64.0419



## Deuteranomaly

44.3042, 50.3776, 72.3545



## Tritanomaly

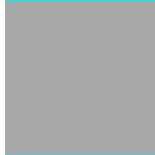
39.0049, 53.1645, 77.3133

# Monochromacy



## Original Color

37.5415, 52.9304, 70.5253



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

34.9981, 42.4875, 51.7037

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.5415, 52.9304, 70.5253 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(64, 212, 212)` looks like.

```
.text, #text, p{  
    color:rgb(64, 212, 212)  
}
```

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(64, 212, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 212, 212) }
```

## Border

The CSS property to change the border of an element to XYZ 37.5415, 52.9304, 70.5253 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(64, 212, 212) }
```



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

```
.border{ border-color:rgb(64, 212, 212) }
```

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

Here you see how a box with a 4 pixel rgb(64, 212, 212) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 212, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 212, 212);  
box-shadow:4px 4px 4px 4px rgb(64, 212,  
212) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.5415, 52.9304, 70.5253 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 212, 212) }
```

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

```
.background{ background-color: rgb(64, 212,  
212) }
```

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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