

# Converting Colors

XYZ(41.0058, 56.7670, 80.9824)

Have a look what the booklet for  
XYZ(41.0058, 56.7670, 80.9824)  
contains.

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# Color

**XYZ(40.9788, 56.7576,  
80.7470)**

# Conversions

## Conversions Part 1

Format	Color
Hex	41DAE2
RGB	65, 218, 226
RGB Percent	25%, 85%, 89%
CMY	0.7451, 0.1451, 0.1137
CMYK	0.71, 0.04, 0.00, 0.11
HSL	183°, 74%, 57%
HSV	183°, 71%, 89%
XYZ	40.9788, 56.7576, 80.7470
YIQ	173.1650, -93.7560, -29.9480

# Conversions

## Conversions Part 2

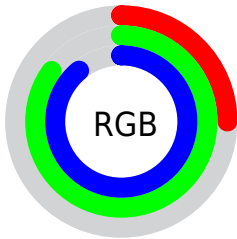
Format	Color
<a href="#">RYB</a>	<a href="#">65, 143, 226</a>
Decimal	<a href="#">4315874</a>
CIELab	<a href="#">80.04, -36.25, -15.44</a>
CIELCh	<a href="#">80, 39.403, 203.068</a>
Yxy	<a href="#">56.7576, 0.2296, 0.3180</a>
Android (android.graphics.Color)	<a href="#">4282505954 (0xFF41DAE2)</a>
YUV	<a href="#">173.1650, 26.0477, -94.8607</a>
Hunter-Lab	<a href="#">75.3376, -34.7484, -10.8108</a>

# Details

The XYZ color **40.9788, 56.7576, 80.7470** 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 **34.7020, 21.3169, 7.2881**, and the grayscale version is **39.7124, 41.7805, 45.4990**.

A 20% lighter version of the original color is **63.8017, 83.8909, 107.4376**, and **20.2710, 28.7809, 43.0150** is the 20% darker color. If you saturate the color by 10%, you get **39.4814, 55.5561, 80.5951**, and if you desaturate by 10%, it is **43.0798, 58.2756, 80.9303**.

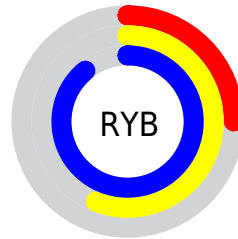
# Distribution



Red (25%)

Green (85%)

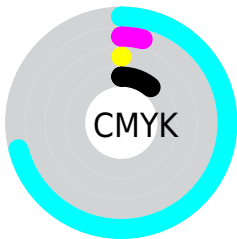
Blue (89%)



Red (25%)

Yellow (56%)

Blue (89%)

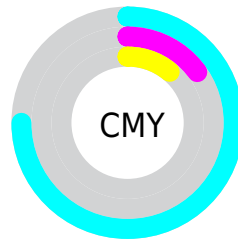


Cyan (71%)

Magenta (4%)

Yellow (0%)

Black (11%)



Cyan (75%)

Magenta (15%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.9788, 56.7576, 80.7470 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 40.9788, 56.7576, 80.7470 by changing the saturation by 10% instead.



40.9788, 56.7576,  
80.7470

40.9788, 56.7576,  
80.7470

341.2961,  
412.5404, 517.2197

28.4901, 40.8107,  
59.8035

75.9266, 100.1114,  
136.2363

18.8378, 28.1712,  
42.8360

99.1165, 128.2871,  
171.6192

11.6564, 18.4547,  
29.4260

126.6041,  
161.3077, 212.6523

6.5807, 11.2769,  
19.1550

158.7548,  
199.5579, 259.7542

3.2453, 6.2534,  
11.6044

195.9340,  
243.4218, 313.3433

1.2848, 2.9998,  
6.3556

238.5071,

0.1718, 1.1316,

293.2839, 373.8382

2.9902

286.8393,  
349.5286, 441.6575

■ 0.0000, 0.0048,  
1.0897

■ 0.0000, 0.0000,  
0.0000

■ 40.9788, 56.7576,  
80.7470

■ 40.9788, 56.7576,  
80.7470

■ 39.4814, 55.5561,  
80.5951

■ 43.0798, 58.2756,  
80.9303


■ 38.5061, 54.6254,  
80.4668


■ 45.8428, 60.1367,  
81.1439


■ 37.9705, 53.9767,  
80.3698


■ 49.3253, 62.3716,  
81.3917


■ 53.5770, 65.0059,  
81.6761

 58.6431, 68.0631,  
81.9992

 64.5655, 71.5647,  
82.3629

 71.3832, 75.5307,  
82.7691

 79.1326, 79.9800,  
83.2195

 82.7409, 82.2975,  
83.4766

# Harmonies

## Analogous

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



40.0542, 56.7576, 56.6264



40.9788, 56.7576, 80.7470



45.2098, 56.7576, 104.1967

# Triad

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



40.9788, 56.7576, 80.7470



67.2203, 56.7576, 92.2782



55.8270, 56.7576, 27.5357

# Complementary

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



40.9788, 56.7576, 80.7470



34.7020, 21.3169, 7.2881

# 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.



63.7417, 56.7576, 32.8173



40.9788, 56.7576, 80.7470



70.7283, 56.7576, 67.2782

# Square

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



40.9788, 56.7576, 80.7470



60.2100, 56.7576, 111.9228



69.3962, 56.7576, 46.0751



48.1330, 56.7576, 29.4481



# Rectangle

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



40.9788, 56.7576, 80.7470



49.5834, 56.7576, 114.3397



69.3962, 56.7576, 46.0751



58.5582, 56.7576, 28.4737

# Sweetspot

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



40.9805, 56.7597, 80.7484



77.1757, 89.5343, 107.8220



30.4948, 55.9646, 15.0518



16.0981, 18.9122, 23.0519



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.



40.9805, 56.7597, 80.7484



51.2790, 72.4777, 105.8947



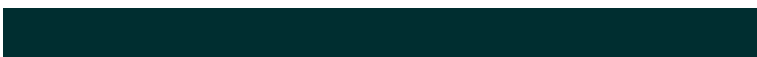
25.3068, 25.4121, 75.5238



14.0552, 15.4495, 17.6289



21.6885, 30.8466, 45.8592



1.5215, 2.1745, 3.1848



# Inverse Universe

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



45.9107, 25.0128, 68.7401



58.3055, 29.2080, 88.3372



43.3649, 38.6428, 10.1758



14.2641, 13.9233, 17.1608



24.8876, 12.0220, 37.6692

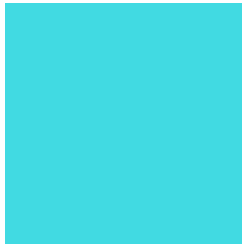


1.7342, 0.8370, 2.6594



# Previews

## White Background



This preview shows how the XYZ color 40.9788, 56.7576, 80.7470 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

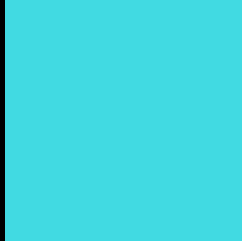
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.9788, 56.7576, 80.7470 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

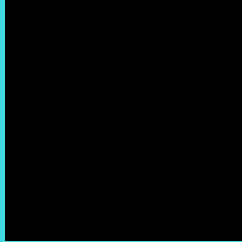
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

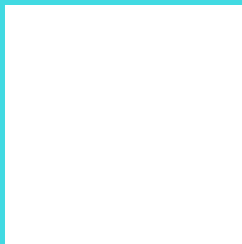
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 40.9788, 56.7576, 80.7470

## Background



This preview shows how black text looks on a background with the XYZ color 40.9788, 56.7576, 80.7470.



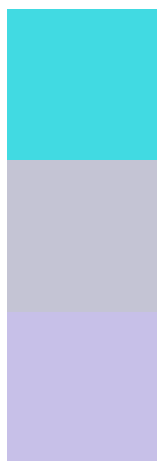
This preview shows how white text looks on a background with the XYZ color 40.9788, 56.7576,



# 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

40.9788, 56.7576, 80.7470

### Protanopia

54.3885, 55.9691, 70.2239

### Deuteranopia

56.9683, 55.6676, 84.0863



## Tritanopia

42.1899, 56.8683, 86.5949

# Trichromacy



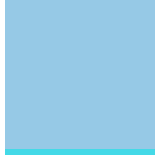
## Original Color

40.9788, 56.7576, 80.7470



## Protanomaly

46.3300, 54.4914, 73.7217



## Deuteranomaly

47.7472, 53.9705, 82.7637



## Tritanomaly

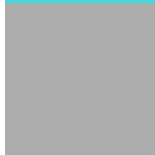
41.6206, 56.6242, 84.3372

# Monochromacy



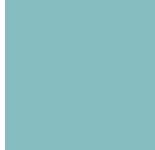
## Original Color

40.9788, 56.7576, 80.7470



## Achromatopsia

39.7200, 41.7885, 45.5077



## Achromatomaly

37.5435, 45.2693, 56.6283

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.9788, 56.7576, 80.7470 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(65, 218, 226)` looks like.

```
.text, #text, p{  
    color:rgb(65, 218, 226)  
}
```

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(65, 218, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 218, 226) }
```

## Border

The CSS property to change the border of an element to XYZ 40.9788, 56.7576, 80.7470 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(65, 218, 226) }
```



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

```
.border{ border-color:rgb(65, 218, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 218, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 218, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 218, 226);  
box-shadow:4px 4px 4px 4px rgb(65, 218,  
226) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.9788, 56.7576, 80.7470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 218, 226) }
```

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

```
.background{ background-color: rgb(65, 218,  
226) }
```

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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