

# Converting Colors

XYZ(40.1850, 56.9550, 76.1005)

Have a look what the booklet for  
XYZ(40.1850, 56.9550, 76.1005)  
contains.

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# Color

**XYZ(40.0422, 56.7696,  
75.8650)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3DDBDB
RGB	61, 219, 219
RGB Percent	24%, 86%, 86%
CMY	0.7607, 0.1412, 0.1412
CMYK	0.72, 0.00, 0.00, 0.14
HSL	180°, 69%, 55%
HSV	180°, 72%, 86%
XYZ	40.0422, 56.7696, 75.8650
YIQ	171.7580, -94.1680, -33.4960

# Conversions

## Conversions Part 2

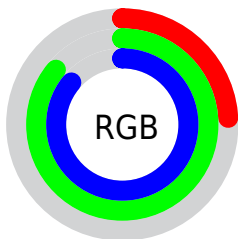
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">61, 140, 219</a>
Decimal	<a href="#">4053979</a>
CIELab	<a href="#">80.05, -39.18, -11.70</a>
CIELCh	<a href="#">80, 40.892, 196.630</a>
Yxy	<a href="#">56.7696, 0.2319, 0.3288</a>
Android (android.graphics.Color)	<a href="#">4282244059 (0xFF3DDBDB)</a>
YUV	<a href="#">171.7580, 23.2903, -97.1348</a>
Hunter-Lab	<a href="#">75.3456, -36.9915, -6.9568</a>

# Details

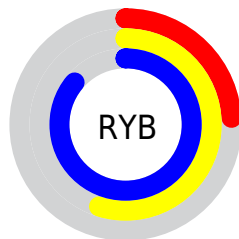
The XYZ color **40.0422, 56.7696, 75.8650** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **31.7264, 18.7364, 6.3611**, and the grayscale version is **39.0129, 41.0446, 44.6976**.

A 20% lighter version of the original color is **63.3257, 83.6455, 107.4153**, and **19.7980, 28.8747, 39.6519** is the 20% darker color. If you saturate the color by 10%, you get **38.9596, 56.2128, 75.8154**, and if you desaturate by 10%, it is **41.6783, 57.6143, 75.9430**.

# Distribution



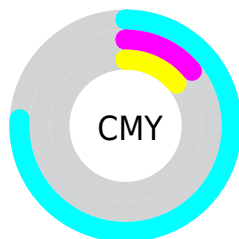
- Red (24%)
- Green (86%)
- Blue (86%)



- Red (24%)
- Yellow (55%)
- Blue (86%)



- Cyan (72%)
- Magenta (0%)
- Yellow (0%)
- Black (14%)




- Cyan (76%)
- Magenta (14%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.0422, 56.7696, 75.8650 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 40.0422, 56.7696, 75.8650 by changing the saturation by 10% instead.





 40.0422, 56.7696,  
75.8650


 40.0422, 56.7696,  
75.8650


337.4328,  
412.5854, 500.2200


 27.7558, 40.8203,  
55.8158


 74.5117, 100.1289,  
129.2944


 18.2812, 28.1787,  
39.6523


 97.4255, 128.3077,  
163.5117

 11.2530, 18.4604,  
26.9558


 124.6125,  
161.3318, 203.2888

 6.3058, 11.2810,  
17.3079

 156.4381,  
199.5856, 249.0442

 3.0743, 6.2562,  
10.2900

193.2675,  
243.4534, 301.1965

 1.1932, 3.0015,  
5.4835

235.4662,

 0.1010, 1.1325,

293.3198, 360.1642

2.4700

283.3995,  
349.5690, 426.3658

■ 0.0000, 0.0055,  
0.8242

■ 0.0000, 0.0000,  
0.0000

■ 40.0422, 56.7696,  
75.8650

■ 40.0422, 56.7696,  
75.8650

■ 38.9596, 56.2128,  
75.8154

■ 41.6783, 57.6143,  
75.9430


■ 38.3536, 55.9004,  
75.7869


■ 43.9225, 58.7712,  
76.0482


■ 38.1186, 55.7792,  
75.7758


■ 46.8285, 60.2693,  
76.1844


■ 50.4428, 62.1325,  
76.3537

 54.8076, 64.3827,  
76.5581

 59.9620, 67.0399,  
76.7995

 65.9422, 70.1228,  
77.0795

 72.7822, 73.6489,  
77.3998

 79.3590, 77.0394,  
77.7078

# Harmonies

## Analogous

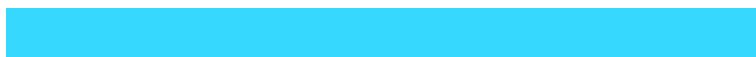
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



39.8495, 56.7696, 51.8172



40.0422, 56.7696, 75.8650



43.7063, 56.7696, 101.4311

# Triad

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



40.0422, 56.7696, 75.8650



66.4349, 56.7696, 98.8899



57.7400, 56.7696, 27.1089

# Complementary

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



40.0422, 56.7696, 75.8650



31.7264, 18.7364, 6.3611

# 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.



65.6987, 56.7696, 34.1436



40.0422, 56.7696, 75.8650



71.0556, 56.7696, 73.0168

# Square

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



40.0422, 56.7696, 75.8650



58.6641, 56.7696, 116.8864



70.7731, 56.7696, 49.6121



49.5102, 56.7696, 27.4999



# Rectangle

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



40.0422, 56.7696, 75.8650



47.8609, 56.7696, 114.0935



70.7731, 56.7696, 49.6121



60.5516, 56.7696, 28.5870

# Sweetspot

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



40.0439, 56.7717, 75.8664



77.3366, 90.8684, 108.0705



28.2663, 52.0799, 12.9791



16.1696, 19.2518, 23.1136



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.



40.0439, 56.7717, 75.8664



54.4416, 79.0657, 106.9975



24.4804, 25.6443, 70.6796



13.4449, 14.8296, 16.8059



22.6018, 33.0733, 44.9300



1.4643, 2.1427, 2.9108



# Inverse Universe

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



31.7264, 18.7364, 6.3611



42.0647, 22.4667, 3.5695



39.0559, 33.3955, 8.8040



13.0561, 13.0515, 13.5567



17.3222, 8.9299, 0.8107

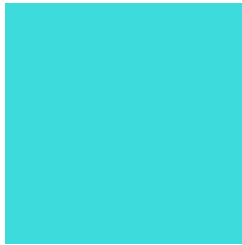


1.1222, 0.5785, 0.0525



# Previews

## White Background



This preview shows how the XYZ color 40.0422, 56.7696, 75.8650 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

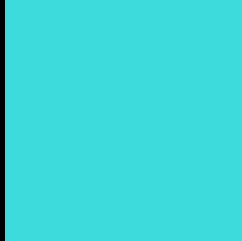
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.0422, 56.7696, 75.8650 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

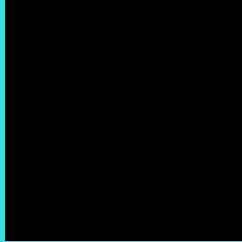
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

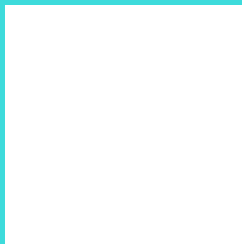
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 40.0422, 56.7696, 75.8650

## Background



This preview shows how black text looks on a background with the XYZ color 40.0422, 56.7696, 75.8650.



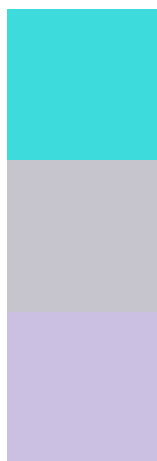
This preview shows how white text looks on a background with the XYZ color 40.0422, 56.7696,

75.8650.

# 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

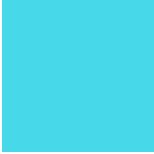
40.0422, 56.7696, 75.8650

### Protanopia

54.0481, 55.8934, 65.6975

### Deuteranopia

57.0688, 55.8320, 79.0030



## **Tritanopia**

42.2627, 56.9058, 86.5983

# Trichromacy



## Original Color

40.0422, 56.7696, 75.8650



## Protanomaly

45.4385, 54.1348, 69.0270



## Deuteranomaly

47.2023, 54.1481, 77.7758



## Tritanomaly

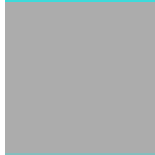
41.5290, 56.9932, 82.9407

# Monochromacy



## Original Color

40.0422, 56.7696, 75.8650



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

36.8986, 44.9748, 54.8804

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.0422, 56.7696, 75.8650 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(61, 219, 219)` looks like.

```
.text, #text, p{  
    color:rgb(61, 219, 219)  
}
```

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(61, 219, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 219, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 40.0422, 56.7696, 75.8650 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(61, 219, 219) }
```



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

```
.border{ border-color:rgb(61, 219, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(61, 219, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 219, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 219, 219);  
box-shadow:4px 4px 4px 4px rgb(61, 219,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.0422, 56.7696, 75.8650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 219, 219) }
```

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

```
.background{ background-color: rgb(61, 219,  
219) }
```

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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