

# Converting Colors

XYZ(40.0012, 52.2031, 72.7634)

Have a look what the booklet for  
XYZ(40.0012, 52.2031, 72.7634)  
contains.

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# Color

**XYZ(40.0743, 52.3502,  
72.9582)**

# Conversions

## Conversions Part 1

Format	Color
Hex	65CFD8
RGB	101, 207, 216
RGB Percent	40%, 81%, 85%
CMY	0.6039, 0.1882, 0.1529
CMYK	0.53, 0.04, 0.00, 0.15
HSL	185°, 60%, 62%
HSV	185°, 53%, 85%
XYZ	40.0743, 52.3502, 72.9582
YIQ	176.3320, -66.0650, -19.6730

# Conversions

## Conversions Part 2

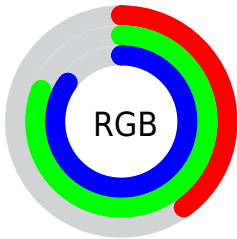
Format	Color
<a href="#">RYB</a>	<a href="#">101, 156, 216</a>
Decimal	<a href="#">6672344</a>
CIELab	<a href="#">77.49, -28.05, -13.82</a>
CIElCh	<a href="#">77, 31.268, 206.236</a>
Yxy	<a href="#">52.3502, 0.2423, 0.3165</a>
Android (android.graphics.Color)	<a href="#">4284862424 (0xFF65CFD8)</a>
YUV	<a href="#">176.3320, 19.5563, -66.0662</a>
Hunter-Lab	<a href="#">72.3534, -27.7530, -9.1382</a>

# Details

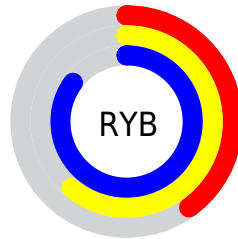
The XYZ color **40.0743, 52.3502, 72.9582** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **36.2448, 26.6914, 15.5549**, and the grayscale version is **41.3673, 43.5217, 47.3951**.

A 20% lighter version of the original color is **68.3072, 86.2136, 107.6485**, and **18.2263, 25.3210, 37.6450** is the 20% darker color. If you saturate the color by 10%, you get **37.5594, 50.4503, 72.7250**, and if you desaturate by 10%, it is **43.2322, 54.5905, 73.2251**.

# Distribution



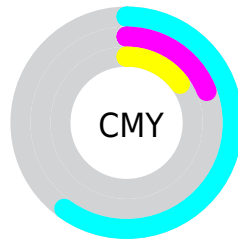
- Red (40%)
- Green (81%)
- Blue (85%)



- Red (40%)
- Yellow (61%)
- Blue (85%)



- Cyan (53%)
- Magenta (4%)
- Yellow (0%)
- Black (15%)



- Cyan (60%)
- Magenta (19%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.0743, 52.3502, 72.9582 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 40.0743, 52.3502, 72.9582 by changing the saturation by 10% instead.



40.0743, 52.3502,  
72.9582

40.0743, 52.3502,  
72.9582

337.5657,  
395.7871, 489.9368

27.7809, 37.2843,  
53.4502

74.5603, 93.6475,  
125.1382

18.3002, 25.4277,  
37.7721

97.4836, 120.6477,  
158.6473

11.2667, 16.3960,  
25.5054

124.6809,  
152.3948, 197.6605

6.3151, 9.8048,  
16.2315

156.5177,  
189.2731, 242.5963

3.0801, 5.2697,  
9.5320

193.3592,  
231.6671, 293.8733

1.1963, 2.4064,  
4.9883

235.5708,

0.1034, 0.8292,

279.9612, 351.9101

2.1818

283.5178,  
334.5397, 417.1250

■ 0.0000, 0.0000,  
0.6638

■ 0.0000, 0.0000,  
0.0000

■ 40.0743, 52.3502,  
72.9582

■ 40.0743, 52.3502,  
72.9582

■ 37.5594, 50.4503,  
72.7250

■ 43.2322, 54.5905,  
73.2251

■ 35.6318, 48.8584,  
72.5193

■ 47.0738, 57.1886,  
73.5241

■ 34.2344, 47.5463,  
72.3397

■ 51.6420, 60.1678,  
73.8584

■ 33.2960, 46.4773,  
72.1828

■ 56.9747, 63.5477,  
74.2297

■ 32.8413, 45.8508,  
72.0859

■ 63.1073, 67.3465,  
74.6398

■ 70.0729, 71.5815,  
75.0900

■ 77.9028, 76.2685,  
75.5821

■ 79.3659, 77.6801,  
75.7774

■ 79.8132, 78.5745,  
75.9265

# Harmonies

## Analogous

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



39.0715, 52.3502, 54.8506



40.0743, 52.3502, 72.9582



43.5937, 52.3502, 89.2634

# Triad

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



40.0743, 52.3502, 72.9582



60.0208, 52.3502, 77.4953



50.5215, 52.3502, 29.8941

# Complementary

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



40.0743, 52.3502, 72.9582



36.2448, 26.6914, 15.5549

# 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.



56.4761, 52.3502, 33.6319



40.0743, 52.3502, 72.9582



62.2328, 52.3502, 59.2058

# Square

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



40.0743, 52.3502, 72.9582



55.0553, 52.3502, 92.2322



60.8865, 52.3502, 43.5578



44.8106, 52.3502, 32.1232



# Rectangle

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



40.0743, 52.3502, 72.9582



47.0521, 52.3502, 95.6713



60.8865, 52.3502, 43.5578



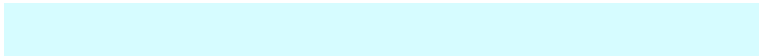
52.5642, 52.3502, 30.4707

# Sweetspot

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



40.0759, 52.3522, 72.9594



80.5900, 91.0462, 107.9339



32.6663, 52.9765, 22.8793



16.8989, 19.2660, 23.0780



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.



40.0759, 52.3522, 72.9594



54.2644, 73.1264, 105.8625



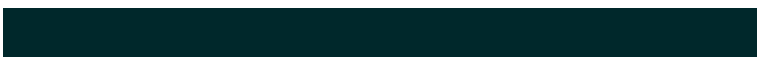
28.8027, 29.8057, 69.2017



12.7052, 13.9338, 15.9574



19.4750, 27.2118, 42.6791



1.1999, 1.6918, 2.5826



# Inverse Universe

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



44.2364, 28.4127, 62.1863



61.1115, 35.3043, 87.7792



44.3356, 42.8730, 18.2519



12.9091, 12.6152, 15.4618



22.8889, 11.0919, 33.0488

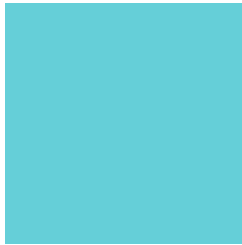


1.3933, 0.6741, 2.0604



# Previews

## White Background



This preview shows how the XYZ color 40.0743, 52.3502, 72.9582 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

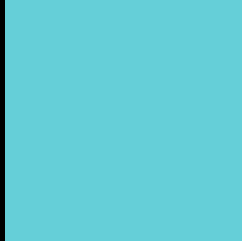
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.0743, 52.3502, 72.9582 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 40.0743, 52.3502, 72.9582

## Background



This preview shows how black text looks on a background with the XYZ color 40.0743, 52.3502, 72.9582.



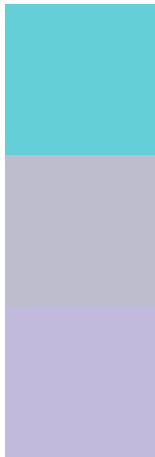
This preview shows how white text looks on a background with the XYZ color 40.0743, 52.3502,



# 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

40.0743, 52.3502, 72.9582

### Protanopia

50.2033, 51.6218, 65.0756

### Deuteranopia

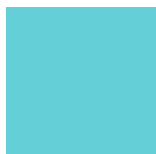
52.8582, 51.8076, 75.6206



## Tritanopia

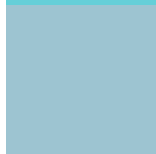
40.9841, 52.3539, 77.7573

# Trichromacy



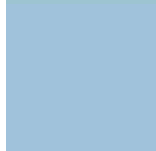
## Original Color

40.0743, 52.3502, 72.9582



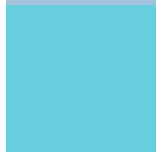
## Protanomaly

45.1532, 51.2514, 67.8343



## Deuteranomaly

46.5752, 51.1716, 74.4402



## Tritanomaly

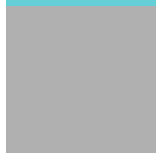
40.4691, 52.1347, 75.6402

# Monochromacy



## Original Color

40.0743, 52.3502, 72.9582



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

39.5687, 45.6918, 56.0241

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.0743, 52.3502, 72.9582 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(101, 207, 216)` looks like.

```
.text, #text, p{  
    color:rgb(101, 207, 216)  
}
```

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(101, 207, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 207, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 40.0743, 52.3502, 72.9582 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(101, 207, 216) }
```



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

```
.border{ border-color:rgb(101, 207, 216) }
```

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

Here you see how a box with a 4 pixel rgb(101, 207, 216) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 207, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 207, 216);  
box-shadow:4px 4px 4px 4px rgb(101, 207,  
216) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.0743, 52.3502, 72.9582 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 207, 216) }
```

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

```
.background{ background-color: rgb(101,  
207, 216) }
```

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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