

# Converting Colors

XYZ(31.4849, 40.3366, 75.1290)

Have a look what the booklet for  
XYZ(31.4849, 40.3366, 75.1290)  
contains.

<b>XYZ(31.5725, 40.5073, 75.2619)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(31.5725, 40.5073,  
75.2619)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2CB9DE
RGB	44, 185, 222
RGB Percent	17%, 73%, 87%
CMY	0.8274, 0.2745, 0.1294
CMYK	0.80, 0.17, 0.00, 0.13
HSL	192°, 73%, 52%
HSV	192°, 80%, 87%
XYZ	31.5725, 40.5073, 75.2619
YIQ	147.0590, -95.9130, -18.3850

# Conversions

## Conversions Part 2

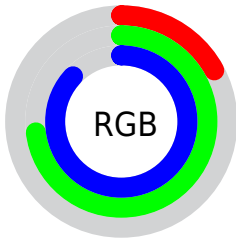
Format	Color
R <sub>Y</sub> B	44, 123, 222
Decimal	2931166
CIE Lab	69.83, -23.67, -28.85
CIE LCh	70, 37.323, 230.631
Yxy	40.5073, 0.2143, 0.2749
Android (android.graphics.Color)	4281121246 (0xFF2CB9DE)
YUV	147.0590, 36.9459, -90.3827
Hunter-Lab	63.6453, -22.8310, -25.5599

# Details

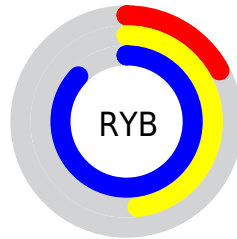
The XYZ color **31.5725, 40.5073, 75.2619** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle washed azure. A complement of this color would be **33.5231, 21.5989, 4.7867**, and the grayscale version is **27.6405, 29.0800, 31.6681**.

A 20% lighter version of the original color is **57.1130, 74.0525, 105.8911**, and **15.2263, 19.2925, 39.4805** is the 20% darker color. If you saturate the color by 10%, you get **29.9114, 38.2417, 74.9129**, and if you desaturate by 10%, it is **33.7770, 43.1011, 75.6472**.

# Distribution



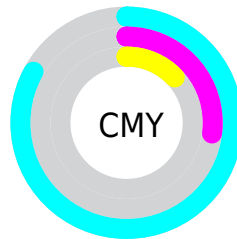
- Red (17%)
- Green (73%)
- Blue (87%)



- Red (17%)
- Yellow (48%)
- Blue (87%)



- Cyan (80%)
- Magenta (17%)
- Yellow (0%)
- Black (13%)



- Cyan (83%)
- Magenta (27%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.5725, 40.5073, 75.2619 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 31.5725, 40.5073, 75.2619 by changing the saturation by 10% instead.



31.5725, 40.5073,  
75.2619

31.5725, 40.5073,  
75.2619

300.9472,  
348.2572, 498.0967

21.1891, 27.9343,  
55.3245

61.5100, 75.9354,  
128.4335

13.3756, 18.2761,  
39.2612

81.7949, 99.5593,  
162.5048

7.7665, 11.1484,  
26.6536

106.1110,  
127.6356, 202.1244

3.9964, 6.1668,  
17.0831

134.8237,  
160.5487, 247.7109

1.7001, 2.9467,  
10.1312

168.2983,  
198.6830, 299.6829

0.4563, 1.1040,  
5.3793

206.9002,

0.0000, 0.0000,

242.4229, 358.4588

2.4089

250.9947,  
292.1528, 424.4572

■ 0.0000, 0.0000,  
0.7913

■ 0.0000, 0.0000,  
0.0000

■ 31.5725, 40.5073,  
75.2619

■ 31.5725, 40.5073,  
75.2619

■ 29.9114, 38.2417,  
74.9129

■ 33.7770, 43.1011,  
75.6472

■ 28.6814, 36.2668,  
74.5966

■ 36.5926, 46.0561,  
76.0691

■ 40.0807, 49.4052,  
76.5317

■ 44.2942, 53.1760,  
77.0375

■ 49.2805, 57.3935,  
77.5887

■ 55.0828, 62.0802,  
78.1876

■ 61.7411, 67.2572,  
78.8359

■ 69.2926, 72.9441,  
79.5356

■ 77.7725, 79.1594,  
80.2883

# Harmonies

## Analogous

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



28.5929, 40.5073, 56.9399



31.5725, 40.5073, 75.2619



36.6350, 40.5073, 85.9059

# Triad

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



31.5725, 40.5073, 75.2619



51.1805, 40.5073, 49.7645



34.5395, 40.5073, 19.6656

# Complementary

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



31.5725, 40.5073, 75.2619



33.5231, 21.5989, 4.7867

# 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.



40.4293, 40.5073, 18.6928



31.5725, 40.5073, 75.2619



50.4683, 40.5073, 33.3611

# Square

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



31.5725, 40.5073, 75.2619



48.2301, 40.5073, 68.8411



46.3754, 40.5073, 23.0098



30.1770, 40.5073, 26.1432



# Rectangle

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



31.5725, 40.5073, 75.2619



40.6909, 40.5073, 85.7070



46.3754, 40.5073, 23.0098



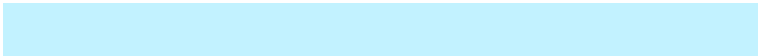
36.3911, 40.5073, 18.7649

# Sweetspot

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



31.5739, 40.5087, 75.2629



72.0818, 82.3327, 106.7004



28.5947, 53.3525, 16.3058



14.8252, 17.1336, 22.7757



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

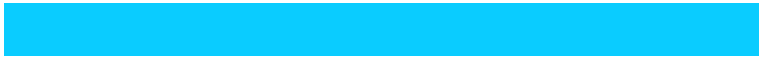


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.5739, 40.5087, 75.2629



39.7971, 50.5247, 102.2625



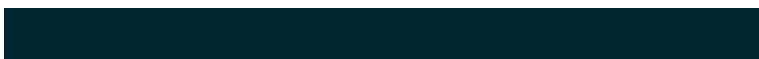
18.5373, 14.4356, 70.9174



13.8620, 15.0632, 17.5646



17.1184, 21.7064, 44.3359



1.2481, 1.6277, 3.0936



# Inverse Universe

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



39.7831, 20.8353, 47.8250



52.2632, 25.8464, 59.4313



44.6942, 43.9412, 8.5104



14.1666, 13.8843, 16.6474



22.5808, 11.0993, 25.5219



1.5962, 0.7818, 1.9327



# Previews

## White Background



This preview shows how the XYZ color 31.5725, 40.5073, 75.2619 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

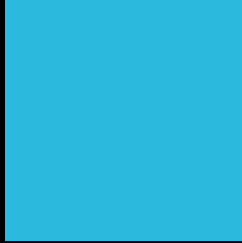
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.5725, 40.5073, 75.2619 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 31.5725, 40.5073, 75.2619**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.5725, 40.5073, 75.2619.



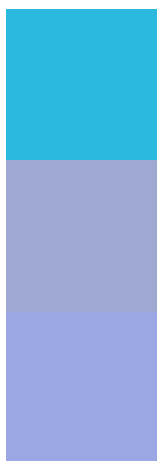
This preview shows how white text looks on a background with the XYZ color 31.5725, 40.5073,



# 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

31.5725, 40.5073, 75.2619

### Protanopia

39.9336, 40.0293, 66.5945

### Deuteranopia

40.8726, 39.9984, 77.5178



## Tritanopia

28.9764, 40.3884, 62.7684

# Trichromacy



## Original Color

31.5725, 40.5073, 75.2619

## Protanomaly

34.6098, 38.9091, 69.3044

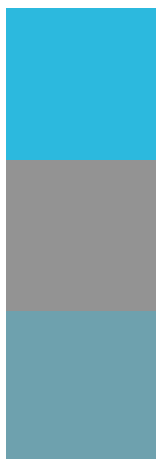
## Deuteranomaly

35.6661, 39.2858, 76.9373

## Tritanomaly

29.8292, 40.4134, 67.2012

# Monochromacy



## Original Color

31.5725, 40.5073, 75.2619

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

26.8153, 31.8607, 44.7808

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.5725, 40.5073, 75.2619 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(44, 185, 222)` looks like.

```
.text, #text, p{  
    color:rgb(44, 185, 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(44, 185, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(44, 185, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 31.5725, 40.5073, 75.2619 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(44, 185, 222) }
```



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

```
.border{ border-color:rgb(44, 185, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(44, 185, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(44, 185, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(44, 185, 222);  
box-shadow:4px 4px 4px 4px rgb(44, 185,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.5725, 40.5073, 75.2619 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(44, 185, 222) }
```

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

```
.background{ background-color: rgb(44, 185,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor