

Converting Colors

XYZ(13.7749, 10.1113, 58.3524)

Have a look what the booklet for
XYZ(13.7749, 10.1113, 58.3524)
contains.

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Color

**XYZ(13.7677, 10.0970,
58.3500)**

Conversions

Conversions Part 1

Format	Color
Hex	0050CC
RGB	0, 80, 204
RGB Percent	0%, 31%, 80%
CMY	0.9998, 0.6863, 0.2000
CMYK	1.00, 0.61, 0.00, 0.20
HSL	216°, 100%, 40%
HSV	216°, 100%, 80%
XYZ	13.7677, 10.0970, 58.3500
YIQ	70.2160, -87.4840, 21.6040

Conversions

Conversions Part 2

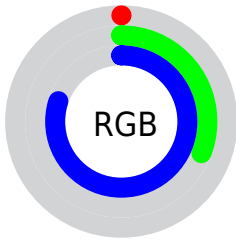
Format	Color
RYB	0, 57, 204
Decimal	20684
CIELab	38.02, 29.76, -69.32
CIELCh	38, 75.440, 293.236
Yxy	10.0970, 0.1675, 0.1228
Android (android.graphics.Color)	4278210764 (0xFF0050CC)
YUV	70.2160, 65.9555, -61.5794
Hunter-Lab	31.7758, 21.7323, -86.6314

Details

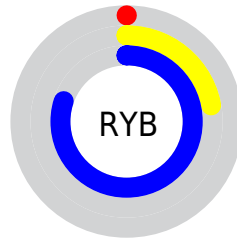
The XYZ color **13.7677, 10.0970, 58.3500** is a dark color, and the websafe version is hex **003399**. The color can be described as dark washed blue. A complement of this color would be **32.1148, 27.2628, 3.5707**, and the grayscale version is **5.7637, 6.0639, 6.6035**.

A 20% lighter version of the original color is **31.1558, 25.6298, 97.9127**, and **6.0864, 3.4931, 28.7872** is the 20% darker color. If you saturate the color by 10%, you get **13.7660, 10.0935, 58.3497**, and if you desaturate by 10%, it is **15.0587, 12.2372, 58.6954**.

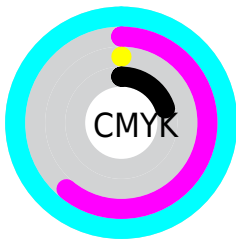
Distribution



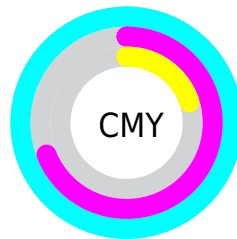
- Red (0%)
- Green (31%)
- Blue (80%)



- Red (0%)
- Yellow (22%)
- Blue (80%)



- Cyan (100%)
- Magenta (61%)
- Yellow (0%)
- Black (20%)



- Cyan (100%)
- Magenta (69%)
- Yellow (20%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7677, 10.0970, 58.3500 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 13.7677, 10.0970, 58.3500 by changing the saturation by 10% instead.

■ 13.7677, 10.0970,
58.3500

■ 13.7677, 10.0970,
58.3500

209.3205,
191.3630, 436.1235

■ 8.0399, 5.4633,
41.6735

■ 32.2660, 25.9778,
103.9522

■ 4.1725, 2.5216,
28.5221

■ 45.7672, 37.9937,
133.7150

■ 1.8002, 0.8874,
18.4771

■ 62.5902, 53.2391,
168.6769

■ 0.5178, 0.0000,
11.1201

■ 83.1005, 72.0985,
209.2566

■ 0.0000, 0.0000,
6.0325

■ 107.6633, 94.9561,
255.8726

■ 0.0000, 0.0000,
2.7957

136.6440,

■ 0.0000, 0.0000,

122.1965, 308.9434

0.9913

170.4079,
154.2040, 368.8875

■ 0.0000, 0.0000,
0.0000

■ 13.7677, 10.0970,
58.3500

■ 13.7677, 10.0970,
58.3500

■ 13.7660, 10.0935,
58.3497

■ 15.0587, 12.2372,
58.6954

■ 16.8389, 14.8912,
59.1138

■ 19.2238, 18.1303,
59.6133

■ 22.2783, 21.9990,
60.1990

■ 26.0579, 26.5363,
60.8756

■ 30.6117, 31.7777,
61.6473

■ 35.9843, 37.7554,
62.5180

■ 42.2166, 44.4997,
63.4913

■ 49.3468, 52.0390,
64.5707

Harmonies

Analogous

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



8.5396, 10.0970, 64.5877



13.7677, 10.0970, 58.3500



19.1778, 10.0970, 35.9897

Triad

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



13.7677, 10.0970, 58.3500



16.3330, 10.0970, 0.3572



2.9942, 10.0970, 8.1379

Complementary

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



13.7677, 10.0970, 58.3500



32.1148, 27.2628, 3.5707

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.



3.8957, 10.0970, 1.5032



13.7677, 10.0970, 58.3500



10.7381, 10.0970, 0.0000

Square

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



13.7677, 10.0970, 58.3500



20.9743, 10.0970, 3.4633



6.3670, 10.0970, 0.0000



3.3238, 10.0970, 25.2612

Rectangle

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



13.7677, 10.0970, 58.3500



21.5868, 10.0970, 20.6404



6.3670, 10.0970, 0.0000



3.1493, 10.0970, 4.9482

Sweetspot

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



13.7683, 10.0972, 58.3503



59.2008, 62.0958, 103.4732



25.1321, 44.6017, 25.8322



11.8268, 12.3581, 22.0120



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.



13.7683, 10.0972, 58.3503



22.6043, 16.3286, 96.5681



11.1970, 4.5138, 57.4081



10.9565, 11.5534, 14.2229



8.7492, 6.5223, 36.7541



0.5247, 0.4831, 1.9205

Inverse Universe

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



26.3503, 13.4175, 8.7904



43.5388, 22.1795, 14.0353



41.2657, 53.3276, 8.1194



11.3914, 11.2853, 12.5957



16.6271, 8.4614, 5.7549



0.8948, 0.4513, 0.4917

Previews

White Background



This preview shows how the XYZ color 13.7677, 10.0970, 58.3500 looks on a white 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 × Fail

Black Background



This preview shows how the XYZ color 13.7677, 10.0970, 58.3500 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

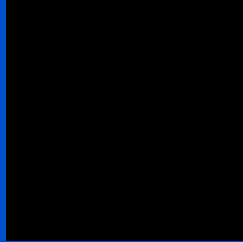
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.7677, 10.0970, 58.3500

Background



This preview shows how black text looks on a background with the XYZ color 13.7677, 10.0970, 58.3500.



This preview shows how white text looks on a background with the XYZ color 13.7677, 10.0970,

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

13.7677, 10.0970, 58.3500

Deuteranopia

9.8279, 10.0546, 32.8752

Tritanopia

7.0116, 9.9436, 14.9144

Trichromacy



Original Color

13.7677, 10.0970, 58.3500

Deuteranomaly

11.0325, 9.9966, 40.8832

Tritanomaly

8.6349, 9.5774, 26.5928

Monochromacy



Original Color

13.7677, 10.0970, 58.3500

Achromatopsia

5.8214, 6.1246, 6.6697

Achromatomaly

6.8607, 6.7874, 18.4013

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.7677, 10.0970, 58.3500 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(0, 80, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 80, 204)  
}
```

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(0, 80, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 80, 204) }
```

Border

The CSS property to change the border of an element to XYZ 13.7677, 10.0970, 58.3500 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(0, 80, 204) }
```

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

```
.border{ border-color:rgb(0, 80, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 80, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 80, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 80, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 80, 204)  
}
```


Background

The CSS property to change the background color of an element to XYZ 13.7677, 10.0970, 58.3500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 80, 204) }
```

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

```
.background{ background-color: rgb(0, 80,  
204) }
```

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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