

Converting Colors

XYZ(4.6972, 4.0299, 76.8809)

Have a look what the booklet for
XYZ(4.6972, 4.0299, 76.8809)
contains.

XYZ(16.7556, 10.2065, 77.4309)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(16.7556, 10.2065,
77.4309)**

Conversions

Conversions Part 1

Format	Color
Hex	0046E8
RGB	0, 70, 232
RGB Percent	0%, 27%, 91%
CMY	0.9998, 0.7255, 0.0902
CMYK	1.00, 0.70, 0.00, 0.09
HSL	222°, 100%, 46%
HSV	222°, 100%, 91%
XYZ	16.7556, 10.2065, 77.4309
YIQ	67.5380, -93.7220, 35.5420

Conversions

Conversions Part 2

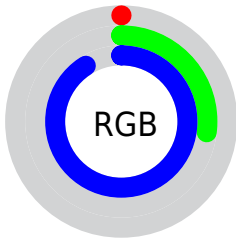
Format	Color
RYB	0, 54, 232
Decimal	18152
CIELab	38.21, 46.69, -85.05
CIELCh	38, 97.024, 298.765
Yxy	10.2065, 0.1605, 0.0978
Android (android.graphics.Color)	4278208232 (0xFF0046E8)
YUV	67.5380, 81.0798, -59.2308
Hunter-Lab	31.9476, 37.7098, -121.3369

Details

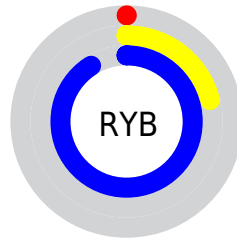
The XYZ color **16.7556, 10.2065, 77.4309** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **46.2100, 43.0176, 5.8693**, and the grayscale version is **5.3091, 5.5856, 6.0827**.

A 20% lighter version of the original color is **31.0772, 23.7286, 97.5499**, and **8.1298, 3.8790, 40.8777** is the 20% darker color. If you saturate the color by 10%, you get **16.7531, 10.2013, 77.4304**, and if you desaturate by 10%, it is **18.2688, 12.6993, 77.8327**.

Distribution



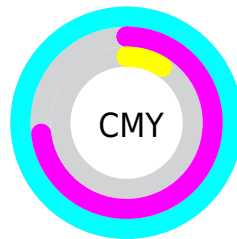
- Red (0%)
- Green (27%)
- Blue (91%)



- Red (0%)
- Yellow (21%)
- Blue (91%)



- Cyan (100%)
- Magenta (70%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (73%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.7556, 10.2065, 77.4309 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 16.7556, 10.2065, 77.4309 by changing the saturation by 10% instead.

■ 16.7556, 10.2065,
77.4309

■ 16.7556, 10.2065,
77.4309

226.9438,
192.1396, 505.7086

■ 10.1546, 5.5361,
57.0929

■ 37.4520, 26.1832,
131.5261

■ 5.5646, 2.5651,
40.6700

■ 52.2782, 38.2583,
166.1205

■ 2.6203, 0.9092,
27.7436

■ 70.5768, 53.5703,
206.3040

■ 0.9563, 0.0000,
17.8951

■ 92.7132, 72.5038,
252.4953

■ 0.0000, 0.0000,
10.7060

■ 119.0527, 95.4431,
305.1128

■ 0.0000, 0.0000,
5.7578

149.9608,

■ 0.0000, 0.0000,

122.7725, 364.5752

2.6320

185.8027,
154.8766, 431.3009

■ 0.0000, 0.0000,
0.9089

■ 0.0000, 0.0000,
0.0000

■ 16.7556, 10.2065,
77.4309

■ 16.7556, 10.2065,
77.4309

■ 16.7531, 10.2013,
77.4304

■ 18.2688, 12.6993,
77.8327

■ 20.5044, 16.0005,
78.3520

■ 23.6172, 20.2167,
79.0018

■ 27.7034, 25.4222,
79.7912

■ 32.8452, 31.6825,
80.7285

■ 39.1156, 39.0566,
81.8214

■ 46.5806, 47.5991,
83.0768

■ 55.3011, 57.3605,
84.5013

■ 65.3335, 68.3884,
86.1011

Harmonies

Analogous

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



9.4429, 10.2065, 94.0454



16.7556, 10.2065, 77.4309



24.1363, 10.2065, 40.4526

Triad

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



16.7556, 10.2065, 77.4309



17.4133, 10.2065, 0.0000



1.9409, 10.2065, 10.3840

Complementary

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



16.7556, 10.2065, 77.4309



46.2100, 43.0176, 5.8693

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.



2.6026, 10.2065, 1.0939



16.7556, 10.2065, 77.4309



9.9637, 10.2065, 0.0000

Square

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



16.7556, 10.2065, 77.4309



24.6176, 10.2065, 1.3930



4.9703, 10.2065, 0.0000



2.4958, 10.2065, 37.4725

Rectangle

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



16.7556, 10.2065, 77.4309



27.0363, 10.2065, 19.3114



4.9703, 10.2065, 0.0000



2.0202, 10.2065, 5.6422

Sweetspot

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



16.7563, 10.2066, 77.4312



57.5444, 58.7829, 102.9211



35.0766, 60.2015, 42.3686



11.4405, 11.5854, 21.8832



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.



16.7563, 10.2066, 77.4312



20.6964, 12.5129, 95.9321



15.5449, 6.3320, 76.7472



13.9354, 14.5922, 18.2264



9.3973, 5.8566, 43.0183



0.7738, 0.5915, 3.2053

Inverse Universe

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



34.3849, 17.5993, 7.3787



42.5758, 21.7943, 8.9642



49.9620, 68.5936, 10.6082



14.5550, 14.4392, 15.8569



19.1368, 9.7889, 4.3494



1.4542, 0.7394, 0.5323

Previews

White Background



This preview shows how the XYZ color 16.7556, 10.2065, 77.4309 looks on a white background.

Color Contrast Check

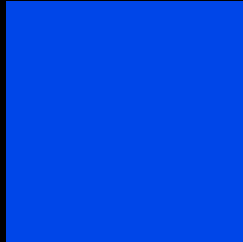
Large Text (above 18pt) WCAG AA ✓ Pass

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 16.7556, 10.2065, 77.4309 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

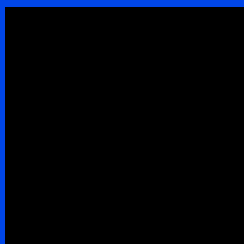
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.7556, 10.2065, 77.4309

Background



This preview shows how black text looks on a background with the XYZ color 16.7556, 10.2065, 77.4309.



This preview shows how white text looks on a background with the XYZ color 16.7556, 10.2065,

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

16.7556, 10.2065, 77.4309

Protanopia

11.7713, 10.0330, 45.5721

Deuteranopia

9.7435, 10.0209, 32.4310



Tritanopia

7.0116, 9.9436, 14.9144

Trichromacy



Original Color

16.7556, 10.2065, 77.4309

Protanomaly

13.2940, 9.9075, 55.8552

Deuteranomaly

11.7176, 9.7595, 46.0659

Tritanomaly

9.0756, 9.2138, 30.5783

Monochromacy



Original Color

16.7556, 10.2065, 77.4309

Achromatopsia

5.4944, 5.7805, 6.2950

Achromatomaly

7.0207, 6.3283, 21.2735

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.7556, 10.2065, 77.4309 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, 70, 232)` looks like.

```
.text, #text, p{  
    color:rgb(0, 70, 232)  
}
```

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, 70, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 70, 232) }
```

Border

The CSS property to change the border of an element to XYZ 16.7556, 10.2065, 77.4309 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, 70, 232) }
```


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

```
.border{ border-color:rgb(0, 70, 232) }
```

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

Here you see how a box with a 4 pixel rgb(0, 70, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 70, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 70, 232);  
box-shadow:4px 4px 4px 4px rgb(0, 70, 232)  
}
```

Background

The CSS property to change the background color of an element to XYZ 16.7556, 10.2065, 77.4309 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 70, 232) }
```

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

```
.background{ background-color: rgb(0, 70,  
232) }
```

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