

# Converting Colors

XYZ(20.2124, 16.7945, 79.8601)

Have a look what the booklet for  
XYZ(20.2124, 16.7945, 79.8601)  
contains.

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# Color

**XYZ(20.3199, 16.8778,  
80.0287)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	006DEA
RGB	0, 109, 234
RGB Percent	0%, 43%, 92%
CMY	0.9998, 0.5725, 0.0824
CMYK	1.00, 0.53, 0.00, 0.08
HSL	212°, 100%, 46%
HSV	212°, 100%, 92%
XYZ	20.3199, 16.8778, 80.0287
YIQ	90.6590, -105.0890, 15.7670

# Conversions

## Conversions Part 2

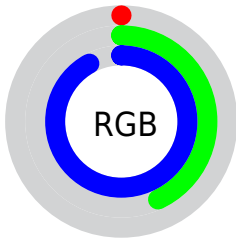
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 74, 234
Decimal	28138
CIELab	48.11, 22.65, -69.97
CIELCh	48, 73.542, 287.942
Yxy	16.8778, 0.1733, 0.1440
Android (android.graphics.Color)	4278218218 (0xFF006DEA)
YUV	90.6590, 70.6671, -79.5079
Hunter-Lab	41.0826, 16.3935, -86.7388

# Details

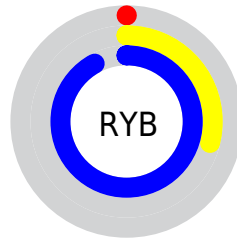
The XYZ color **20.3199, 16.8778, 80.0287** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed azure. A complement of this color would be **41.2734, 32.1751, 4.0368**, and the grayscale version is **9.7333, 10.2402, 11.1516**.

A 20% lighter version of the original color is **36.6842, 35.4874, 99.5240**, and **9.7133, 6.7293, 42.3819** is the 20% darker color. If you saturate the color by 10%, you get **20.3166, 16.8711, 80.0280**, and if you desaturate by 10%, it is **22.1140, 19.9256, 80.5229**.

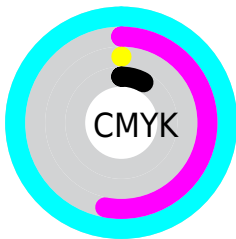
# Distribution



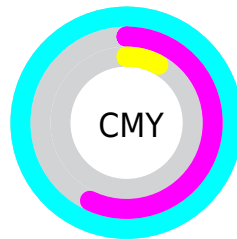
- Red (0%)
- Green (43%)
- Blue (92%)



- Red (0%)
- Yellow (29%)
- Blue (92%)



- Cyan (100%)
- Magenta (53%)
- Yellow (0%)
- Black (8%)



- Cyan (100%)
- Magenta (57%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3199, 16.8778, 80.0287 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 20.3199, 16.8778, 80.0287 by changing the saturation by 10% instead.



■ 20.3199, 16.8778,  
80.0287

■ 20.3199, 16.8778,  
80.0287

246.4424,  
234.4672, 514.7389

■ 12.7374, 10.1474,  
59.2157

■ 43.4527, 38.1156,  
135.2178

■ 7.3237, 5.4968,  
42.3656

■ 59.7338, 53.3917,  
170.4310

■ 3.7135, 2.5416,  
29.0600

■ 79.6451, 72.2852,  
211.2814

■ 1.5414, 0.8974,  
18.8802

■ 103.5519, 95.1805,  
258.1874

■ 0.3537, 0.0000,  
11.4078

■ 131.8197,  
122.4619, 311.5676

■ 0.0000, 0.0000,  
6.2242

164.8139,

■ 0.0000, 0.0000,

154.5139, 371.8405

2.9109

202.8996,  
191.7209, 439.4248

■ 0.0000, 0.0000,  
1.0493

■ 0.0000, 0.0000,  
0.0000

■ 20.3199, 16.8778,  
80.0287

■ 20.3199, 16.8778,  
80.0287

■ 20.3166, 16.8711,  
80.0280

■ 22.1140, 19.9256,  
80.5229

■ 24.5432, 23.5935,  
81.1028

■ 27.7536, 27.9676,  
81.7779

■ 31.8330, 33.1030,  
82.5541

■ 36.8561, 39.0478,  
83.4368

■ 42.8888, 45.8451,  
84.4309

■ 49.9903, 53.5342,  
85.5407

■ 58.2154, 62.1518,  
86.7706

■ 67.6144, 71.7320,  
88.1244

# Harmonies

## Analogous

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



13.5121, 16.8778, 82.6558



20.3199, 16.8778, 80.0287



27.5548, 16.8778, 55.5303

# Triad

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



20.3199, 16.8778, 80.0287



26.2427, 16.8778, 2.3806



6.4933, 16.8778, 11.7297

# Complementary

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



20.3199, 16.8778, 80.0287



41.2734, 32.1751, 4.0368

# 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.



8.2874, 16.8778, 3.1294



20.3199, 16.8778, 80.0287



18.8691, 16.8778, 0.7706

# Square

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



20.3199, 16.8778, 80.0287



31.5734, 16.8778, 9.2348



12.4108, 16.8778, 0.9072



6.6812, 16.8778, 32.1517



# Rectangle

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



20.3199, 16.8778, 80.0287



31.0818, 16.8778, 35.8821



12.4108, 16.8778, 0.9072



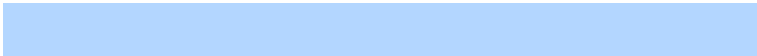
6.8583, 16.8778, 7.7566

# Sweetspot

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



20.3208, 16.8782, 80.0292



60.6030, 64.9002, 103.9406



33.1144, 60.3227, 29.2426



12.1561, 13.0168, 22.1217



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.



20.3208, 16.8782, 80.0292



24.6168, 20.3535, 97.2389



14.9504, 5.9925, 78.2111



14.8094, 15.7053, 19.1731



11.5401, 9.7272, 45.0123



1.0016, 0.9547, 3.5664



# Inverse Universe

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



36.6929, 18.5980, 16.1238



44.5546, 22.5858, 19.3845



60.8509, 75.0477, 11.2802



15.3574, 15.1708, 17.1671



20.6802, 10.4748, 9.3833



1.6721, 0.8418, 0.9905



# Previews

## White Background



This preview shows how the XYZ color 20.3199, 16.8778, 80.0287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

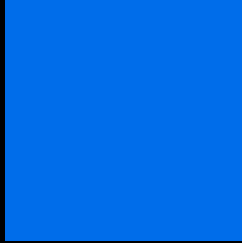
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 20.3199, 16.8778, 80.0287 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

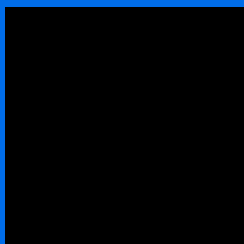
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

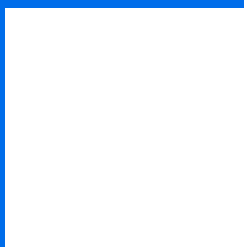
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 20.3199, 16.8778, 80.0287**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.3199, 16.8778, 80.0287.



This preview shows how white text looks on a background with the XYZ color 20.3199, 16.8778,



# 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

20.3199, 16.8778, 80.0287

### Protanopia

20.1766, 16.8205, 79.2740

### Deuteranopia

16.7880, 16.7078, 57.5985



## Tritanopia

11.7639, 16.6429, 25.1466

# Trichromacy



## Original Color

20.3199, 16.8778, 80.0287

## Protanomaly

20.1766, 16.8205, 79.2740

## Deuteranomaly

17.9154, 16.6144, 65.2134

## Tritanomaly

13.9722, 16.3352, 40.4468

# Monochromacy



## Original Color

20.3199, 16.8778, 80.0287

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

11.0705, 11.6181, 27.6456

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.3199, 16.8778, 80.0287 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, 109, 234)` looks like.

```
.text, #text, p{  
    color:rgb(0, 109, 234)  
}
```

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, 109, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 109, 234) }
```

## Border

The CSS property to change the border of an element to XYZ 20.3199, 16.8778, 80.0287 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, 109, 234) }
```



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

```
.border{ border-color:rgb(0, 109, 234) }
```

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

Here you see how a box with a 4 pixel rgb(0, 109, 234) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 109, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 109, 234);  
box-shadow:4px 4px 4px 4px rgb(0, 109,  
234) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.3199, 16.8778, 80.0287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 109, 234) }
```

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

```
.background{ background-color: rgb(0, 109,  
234) }
```

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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