

Converting Colors

XYZ(20.0583, 16.8509, 76.6911)

Have a look what the booklet for
XYZ(20.0583, 16.8509, 76.6911)
contains.

XYZ(20.1049, 16.8326, 77.0523)	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(20.1049, 16.8326,
77.0523)**

Conversions

Conversions Part 1

Format	Color
Hex	176DE6
RGB	23, 109, 230
RGB Percent	9%, 43%, 90%
CMY	0.9097, 0.5725, 0.0980
CMYK	0.90, 0.53, 0.00, 0.10
HSL	215°, 82%, 50%
HSV	215°, 90%, 90%
XYZ	20.1049, 16.8326, 77.0523
YIQ	97.0800, -90.0970, 19.3990

Conversions

Conversions Part 2

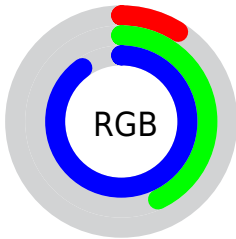
Format	Color
R _Y B	23, 84, 230
Decimal	1535462
CIE Lab	48.05, 21.84, -67.80
CIE LCh	48, 71.230, 287.858
Yxy	16.8326, 0.1764, 0.1477
Android (android.graphics.Color)	4279725542 (0xFF176DE6)
YUV	97.0800, 65.5296, -64.9682
Hunter-Lab	41.0276, 15.6729, -82.6310

Details

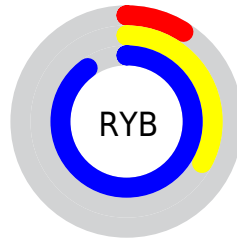
The XYZ color **20.1049, 16.8326, 77.0523** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed azure. A complement of this color would be **42.7665, 36.8415, 5.6694**, and the grayscale version is **11.2445, 11.8301, 12.8830**.

A 20% lighter version of the original color is **37.1764, 35.7411, 99.5471**, and **9.3203, 6.5721, 40.3125** is the 20% darker color. If you saturate the color by 10%, you get **18.4257, 13.9979, 76.5941**, and if you desaturate by 10%, it is **22.4257, 20.3238, 77.6043**.

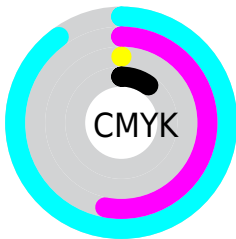
Distribution



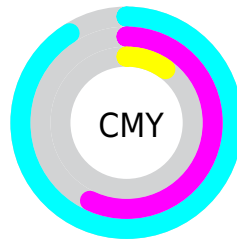
- Red (9%)
- Green (43%)
- Blue (90%)



- Red (9%)
- Yellow (33%)
- Blue (90%)



- Cyan (90%)
- Magenta (53%)
- Yellow (0%)
- Black (10%)



- Cyan (91%)
- Magenta (57%)
- Yellow (10%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.1049, 16.8326, 77.0523 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 20.1049, 16.8326, 77.0523 by changing the saturation by 10% instead.

■ 20.1049, 16.8326,
77.0523

■ 20.1049, 16.8326,
77.0523

245.3052,
234.2059, 504.3847

■ 12.5800, 10.1152,
56.7840

■ 43.0956, 38.0377,
130.9870

■ 7.2150, 5.4754,
40.4236

■ 59.2921, 53.2943,
165.4904

■ 3.6444, 2.5288,
27.5527

■ 79.1099, 72.1660,
205.5760

■ 1.5030, 0.8910,
17.7527

■ 102.9143, 95.0372,
251.6623

■ 0.3279, 0.0000,
10.6049

■ 131.0707,
122.2925, 304.1677

■ 0.0000, 0.0000,
5.6910

163.9444,

■ 0.0000, 0.0000,

154.3160, 363.5109

2.5924

201.9008,
191.4924, 430.1104

■ 0.0000, 0.0000,
0.8885

■ 0.0000, 0.0000,
0.0000

■ 20.1049, 16.8326,
77.0523

■ 20.1049, 16.8326,
77.0523

■ 18.4257, 13.9979,
76.5941

■ 22.4257, 20.3238,
77.6043

■ 18.4236, 13.9943,
76.5935

■ 25.5287, 24.5578,
78.2580

■ 29.5011, 29.5927,
79.0205

■ 34.4168, 35.4788,
79.8975

■ 40.3406, 42.2613,
80.8944

■ 47.3316, 49.9819,
82.0162

■ 55.4437, 58.6790,
83.2674

■ 64.7271, 68.3890,
84.6523

■ 75.2288, 79.1459,
86.1751

Harmonies

Analogous

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



13.5330, 16.8326, 79.4615



20.1049, 16.8326, 77.0523



27.0500, 16.8326, 53.9096

Triad

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



20.1049, 16.8326, 77.0523



25.8295, 16.8326, 2.6027



6.6892, 16.8326, 11.8344

Complementary

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



20.1049, 16.8326, 77.0523



42.7665, 36.8415, 5.6694

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.



8.4612, 16.8326, 3.3445



20.1049, 16.8326, 77.0523



18.7475, 16.8326, 0.9232

Square

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



20.1049, 16.8326, 77.0523



30.9177, 16.8326, 9.4613



12.4938, 16.8326, 1.0544



6.8695, 16.8326, 31.4971

Rectangle

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



20.1049, 16.8326, 77.0523



30.4291, 16.8326, 35.2082



12.4938, 16.8326, 1.0544



7.0513, 16.8326, 7.9470

Sweetspot

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



20.1057, 16.8330, 77.0528



62.5725, 66.1506, 104.0782



33.6671, 58.7829, 35.8628



12.6808, 13.3869, 22.1655



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.



20.1057, 16.8330, 77.0528



23.1957, 17.5113, 96.7652



15.4760, 6.7840, 75.3571



14.0722, 14.8658, 18.2720



10.5445, 8.1512, 43.4007



0.8691, 0.7821, 3.2371

Inverse Universe

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



35.7007, 18.5413, 16.1652



43.8373, 22.2989, 15.6072



55.8210, 70.7652, 11.5293



14.6240, 14.4668, 16.2205



19.7159, 10.0206, 7.3989



1.5023, 0.7586, 0.7857

Previews

White Background



This preview shows how the XYZ color 20.1049, 16.8326, 77.0523 looks on a white background.

Color Contrast Check

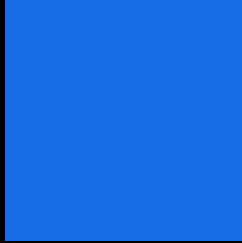
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.1049, 16.8326, 77.0523 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

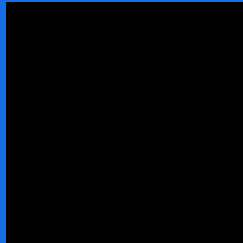
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

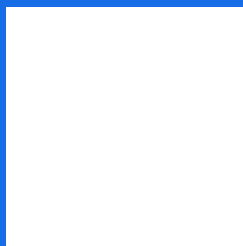
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.1049, 16.8326, 77.0523

Background



This preview shows how black text looks on a background with the XYZ color 20.1049, 16.8326, 77.0523.



This preview shows how white text looks on a background with the XYZ color 20.1049, 16.8326,

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

20.1049, 16.8326, 77.0523

Protanopia

20.0824, 16.8210, 77.0512

Deuteranopia

16.7880, 16.7078, 57.5985



Tritanopia

11.7639, 16.6429, 25.1466

Trichromacy



Original Color

20.1049, 16.8326, 77.0523

Protanomaly

20.0824, 16.8210, 77.0512

Deuteranomaly

17.8889, 16.6153, 64.5516

Tritanomaly

13.9780, 16.3491, 39.9551

Monochromacy



Original Color

20.1049, 16.8326, 77.0523

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

12.2903, 12.6538, 28.5827

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.1049, 16.8326, 77.0523 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(23, 109, 230)` looks like.

```
.text, #text, p{  
    color:rgb(23, 109, 230)  
}
```

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(23, 109, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 109, 230) }
```

Border

The CSS property to change the border of an element to XYZ 20.1049, 16.8326, 77.0523 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(23, 109, 230) }
```


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

```
.border{ border-color:rgb(23, 109, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 109, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 109, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 109, 230);  
box-shadow:4px 4px 4px 4px rgb(23, 109,  
230) }
```

Background

The CSS property to change the background color of an element to XYZ 20.1049, 16.8326, 77.0523 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 109, 230) }
```

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

```
.background{ background-color: rgb(23, 109,  
230) }
```

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