

Converting Colors

XYZ(23.0329, 19.6850, 77.1041)

Have a look what the booklet for
XYZ(23.0329, 19.6850, 77.1041)
contains.

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Color

**XYZ(23.0985, 19.7010,
77.4482)**

Conversions

Conversions Part 1

Format	Color
Hex	4575E6
RGB	69, 117, 230
RGB Percent	27%, 46%, 90%
CMY	0.7294, 0.5412, 0.0980
CMYK	0.70, 0.49, 0.00, 0.10
HSL	222°, 76%, 59%
HSV	222°, 70%, 90%
XYZ	23.0985, 19.7010, 77.4482
YIQ	115.5300, -64.8810, 24.9670

Conversions

Conversions Part 2

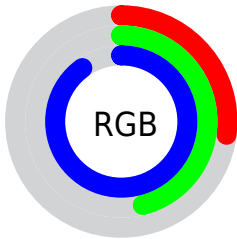
Format	Color
R _Y B	69, 106, 230
Decimal	4552166
CIE Lab	51.50, 21.08, -62.16
CIE LCh	51, 65.635, 288.738
Yxy	19.7010, 0.1921, 0.1638
Android (android.graphics.Color)	4282742246 (0xFF4575E6)
YUV	115.5300, 56.4337, -40.8068
Hunter-Lab	44.3858, 15.2167, -72.3843

Details

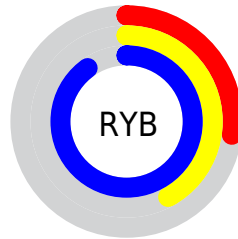
The XYZ color **23.0985, 19.7010, 77.4482** is a dark color, and the websafe version is hex **3366CC**. The color can be described as middle muted azure. A complement of this color would be **50.4380, 50.7131, 12.7622**, and the grayscale version is **16.3057, 17.1549, 18.6817**.

A 20% lighter version of the original color is **42.2296, 40.7468, 100.2469**, and **9.8301, 7.4363, 40.9616** is the 20% darker color. If you saturate the color by 10%, you get **20.0500, 15.5739, 76.8127**, and if you desaturate by 10%, it is **27.1051, 24.8038, 78.2224**.

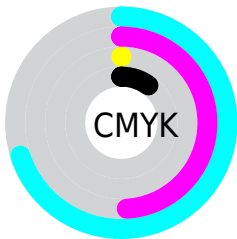
Distribution



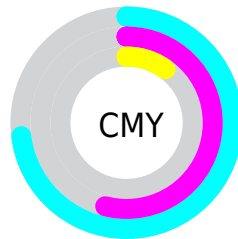
- Red (27%)
- Green (46%)
- Blue (90%)



- Red (27%)
- Yellow (42%)
- Blue (90%)



- Cyan (70%)
- Magenta (49%)
- Yellow (0%)
- Black (10%)



- Cyan (73%)
- Magenta (54%)
- Yellow (10%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.0985, 19.7010, 77.4482 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 23.0985, 19.7010, 77.4482 by changing the saturation by 10% instead.

■ 23.0985, 19.7010,
77.4482

■ 23.0985, 19.7010,
77.4482

260.7564,
250.2918, 505.7690

■ 14.7874, 12.1779,
57.1070

■ 48.0205, 42.9153,
131.5508

■ 8.7556, 6.8649,
40.6813

■ 65.3620, 59.3753,
166.1492

■ 4.6380, 3.3778,
27.7523

■ 86.4444, 79.5831,
206.3372

■ 2.0690, 1.3320,
17.9016

■ 111.6330,
103.9229, 252.5333

■ 0.6723, 0.1658,
10.7107

141.2931,
132.7794, 305.1560

■ 0.0000, 0.0000,
5.7609

175.7902,

■ 0.0000, 0.0000,

166.5367, 364.6238

2.6338

215.4895,
205.5794, 431.3553

■ 0.0000, 0.0000,
0.9098

■ 0.0000, 0.0000,
0.0000

■ 23.0985, 19.7010,
77.4482

■ 23.0985, 19.7010,
77.4482

■ 20.0500, 15.5739,
76.8127

■ 27.1051, 24.8038,
78.2224

■ 17.8626, 12.3474,
76.3052

■ 32.1478, 30.9451,
79.1420

■ 16.3849, 9.9167,
75.9140

■ 38.2993, 38.1839,
80.2151

■ 16.3843, 9.9157,
75.9138

■ 45.6245, 46.5740,
81.4484

■ 54.1830, 56.1653,
82.8487

■ 64.0304, 67.0046,
84.4218

■ 75.2188, 79.1361,
86.1738

■ 87.7971, 92.6019,
88.1100

■ 91.2830, 98.4932,
89.0634

Harmonies

Analogous

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



16.3576, 19.7010, 80.3667



23.0985, 19.7010, 77.4482



29.9584, 19.7010, 55.3949

Triad

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



23.0985, 19.7010, 77.4482



28.3884, 19.7010, 4.1003



8.8433, 19.7010, 15.1149

Complementary

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



23.0985, 19.7010, 77.4482



50.4380, 50.7131, 12.7622

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.



10.7230, 19.7010, 5.3139



23.0985, 19.7010, 77.4482



21.3109, 19.7010, 1.9142

Square

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



23.0985, 19.7010, 77.4482



33.4732, 19.7010, 11.7765



14.9420, 19.7010, 2.1693



9.1052, 19.7010, 35.3504

Rectangle

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



23.0985, 19.7010, 77.4482



33.1928, 19.7010, 37.4882



14.9420, 19.7010, 2.1693



9.2238, 19.7010, 10.7977

Sweetspot

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



23.0994, 19.7016, 77.4487



67.1780, 69.5388, 104.4894



39.1649, 61.2248, 53.8489



13.7124, 14.1409, 22.2567



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.



23.0994, 19.7016, 77.4487



23.9727, 17.7197, 96.7645



21.8020, 12.7495, 76.1752



13.9313, 14.5839, 18.2251



9.3689, 5.7999, 43.0089



0.7712, 0.5864, 3.2045

Inverse Universe

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



37.9731, 22.3650, 19.1453



44.5580, 23.8449, 15.5250



52.6082, 69.0028, 16.1781



14.5529, 14.4383, 15.8460



19.1225, 9.7832, 4.2740



1.4529, 0.7389, 0.5256

Previews

White Background



This preview shows how the XYZ color 23.0985, 19.7010, 77.4482 looks on a white background.

Color Contrast Check

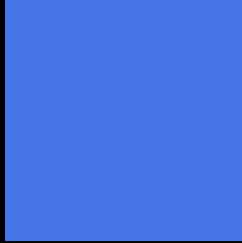
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 23.0985, 19.7010, 77.4482 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

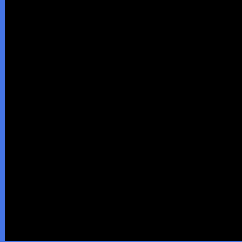
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

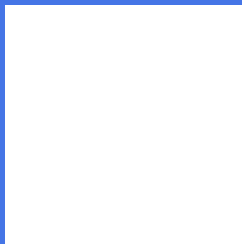
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.0985, 19.7010, 77.4482

Background



This preview shows how black text looks on a background with the XYZ color 23.0985, 19.7010, 77.4482.



This preview shows how white text looks on a background with the XYZ color 23.0985, 19.7010,

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

23.0985, 19.7010, 77.4482

Protanopia

22.7657, 19.6870, 78.2014

Deuteranopia

19.9938, 19.5298, 69.7337



Tritanopia

13.8523, 19.4033, 30.2092

Trichromacy



Original Color

23.0985, 19.7010, 77.4482

Protanomaly

22.9521, 19.7832, 78.2101

Deuteranomaly

20.5576, 19.2091, 72.4363

Tritanomaly

16.0559, 18.8193, 44.3812

Monochromacy



Original Color

23.0985, 19.7010, 77.4482

Achromatopsia

16.6002, 17.4647, 19.0191

Achromatomaly

17.4768, 17.5778, 34.3700

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.0985, 19.7010, 77.4482 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(69, 117, 230)` looks like.

```
.text, #text, p{  
    color:rgb(69, 117, 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(69, 117, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 117, 230) }
```

Border

The CSS property to change the border of an element to XYZ 23.0985, 19.7010, 77.4482 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(69, 117, 230) }
```


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

```
.border{ border-color:rgb(69, 117, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 117, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 117, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 117, 230);  
box-shadow:4px 4px 4px 4px rgb(69, 117,  
230) }
```

Background

The CSS property to change the background color of an element to XYZ 23.0985, 19.7010, 77.4482 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 117, 230) }
```

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

```
.background{ background-color: rgb(69, 117,  
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](#).

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