

Converting Colors

XYZ(11.7541, 13.2605, 77.4998)

Have a look what the booklet for
XYZ(11.7541, 13.2605, 77.4998)
contains.

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Color

**XYZ(20.4411, 17.8041,
77.9605)**

Conversions

Conversions Part 1

Format	Color
Hex	0072E7
RGB	0, 114, 231
RGB Percent	0%, 45%, 91%
CMY	0.9998, 0.5529, 0.0941
CMYK	1.00, 0.51, 0.00, 0.09
HSL	210°, 100%, 45%
HSV	210°, 100%, 91%
XYZ	20.4411, 17.8041, 77.9605
YIQ	93.2520, -105.5010, 12.2190

Conversions

Conversions Part 2

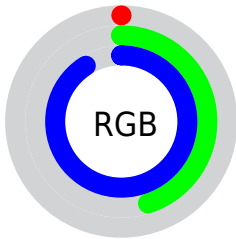
Format	Color
RYB	0, 76, 231
Decimal	29415
CIELab	49.26, 18.28, -66.41
CIELCh	49, 68.881, 285.392
Yxy	17.8041, 0.1759, 0.1532
Android (android.graphics.Color)	4278219495 (0xFF0072E7)
YUV	93.2520, 67.9098, -81.7820
Hunter-Lab	42.1949, 12.6323, -80.0094

Details

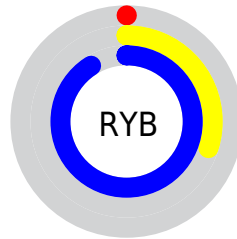
The XYZ color **20.4411, 17.8041, 77.9605** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **39.3241, 29.7262, 3.6669**, and the grayscale version is **10.3318, 10.8698, 11.8373**.

A 20% lighter version of the original color is **37.4490, 37.1944, 99.8132**, and **9.6471, 7.0703, 40.9006** is the 20% darker color. If you saturate the color by 10%, you get **20.4377, 17.7972, 77.9598**, and if you desaturate by 10%, it is **22.2039, 20.7995, 78.4462**.

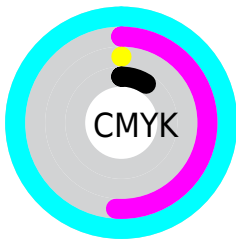
Distribution



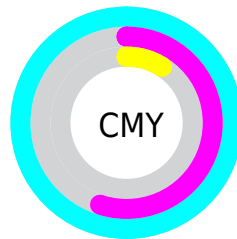
- Red (0%)
- Green (45%)
- Blue (91%)



- Red (0%)
- Yellow (30%)
- Blue (91%)



- Cyan (100%)
- Magenta (51%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (55%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4411, 17.8041, 77.9605 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 20.4411, 17.8041, 77.9605 by changing the saturation by 10% instead.

■ 20.4411, 17.8041,
77.9605

■ 20.4411, 17.8041,
77.9605

247.0815,
239.7645, 507.5570

■ 12.8262, 10.8094,
57.5253

■ 43.6538, 39.7032,
132.2798

■ 7.3852, 5.9388,
41.0149

■ 59.9824, 55.3765,
167.0010

■ 3.7526, 2.8079,
28.0110

■ 79.9461, 74.7114,
207.3212

■ 1.5631, 1.0323,
18.0948

■ 103.9106, 98.0924,
253.6590

■ 0.3682, 0.0000,
10.8479

■ 132.2409,
125.9037, 306.4329

■ 0.0000, 0.0000,
5.8518

165.3026,

■ 0.0000, 0.0000,

158.5300, 366.0616

2.6878

203.4610,
196.3554, 432.9634

■ 0.0000, 0.0000,
0.9373

■ 0.0000, 0.0000,
0.0000

■ 20.4411, 17.8041,
77.9605

■ 20.4411, 17.8041,
77.9605

■ 20.4377, 17.7972,
77.9598

■ 22.2039, 20.7995,
78.4462

■ 24.5659, 24.3635,
79.0097

■ 27.6686, 28.5776,
79.6595

■ 31.5959, 33.4930,
80.4013

■ 36.4191, 39.1544,
81.2398

■ 42.2010, 45.6015,
82.1795

■ 48.9982, 52.8708,
83.2244

■ 56.8628, 60.9959,
84.3782

■ 65.8429, 70.0086,
85.6445

Harmonies

Analogous

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



13.9766, 17.8041, 78.2799



20.4411, 17.8041, 77.9605



27.4056, 17.8041, 56.6784

Triad

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



20.4411, 17.8041, 77.9605



27.2400, 17.8041, 3.4807



7.5178, 17.8041, 11.7213

Complementary

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



20.4411, 17.8041, 77.9605



39.3241, 29.7262, 3.6669

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.



9.5250, 17.8041, 3.5915



20.4411, 17.8041, 77.9605



20.2552, 17.8041, 1.3126

Square

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



20.4411, 17.8041, 77.9605



31.9609, 17.8041, 11.3879



13.8324, 17.8041, 1.3337



7.5434, 17.8041, 30.4545

Rectangle

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



20.4411, 17.8041, 77.9605



30.9283, 17.8041, 38.3120



13.8324, 17.8041, 1.3337



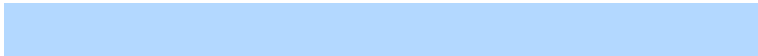
7.9492, 17.8041, 8.0182

Sweetspot

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



20.4420, 17.8046, 77.9610



61.1432, 65.9805, 104.1207



31.7020, 58.4027, 25.9823



12.2835, 13.2715, 22.1642



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.



20.4420, 17.8046, 77.9610



25.4865, 22.0930, 97.5288



14.4253, 5.7713, 75.9555



14.1671, 15.0556, 18.3037



11.5814, 10.2249, 43.7464



0.9486, 0.9412, 3.2636

Inverse Universe

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



35.9931, 18.2053, 17.5365



44.9936, 22.7614, 21.6962



61.5316, 74.1414, 11.0694



14.6719, 14.4860, 16.4728



20.2393, 10.2299, 10.1548



1.5425, 0.7747, 0.9971

Previews

White Background



This preview shows how the XYZ color 20.4411, 17.8041, 77.9605 looks on a white background.

Color Contrast Check

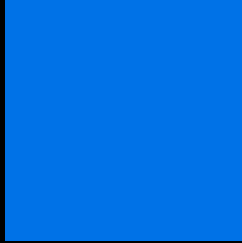
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.4411, 17.8041, 77.9605 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

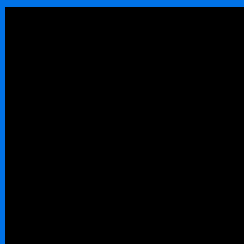
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

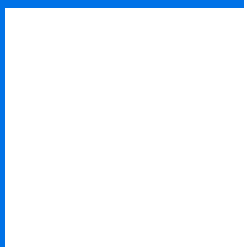
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.4411, 17.8041, 77.9605

Background



This preview shows how black text looks on a background with the XYZ color 20.4411, 17.8041, 77.9605.



This preview shows how white text looks on a background with the XYZ color 20.4411, 17.8041,

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

20.4411, 17.8041, 77.9605

Protanopia

20.9333, 17.7591, 76.4533

Deuteranopia

17.8593, 17.6986, 61.5064



Tritanopia

12.5701, 17.8002, 26.8180

Trichromacy



Original Color

20.4411, 17.8041, 77.9605

Protanomaly

20.6400, 17.7564, 77.2024

Deuteranomaly

18.7560, 17.6804, 67.3899

Tritanomaly

14.6540, 17.3939, 41.6147

Monochromacy



Original Color

20.4411, 17.8041, 77.9605

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

11.4152, 12.2203, 27.7437

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4411, 17.8041, 77.9605 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, 114, 231)` looks like.

```
.text, #text, p{  
    color:rgb(0, 114, 231)  
}
```

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, 114, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 114, 231) }
```

Border

The CSS property to change the border of an element to XYZ 20.4411, 17.8041, 77.9605 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, 114, 231) }
```


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

```
.border{ border-color:rgb(0, 114, 231) }
```

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

Here you see how a box with a 4 pixel rgb(0, 114, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 114, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 114, 231);  
box-shadow:4px 4px 4px 4px rgb(0, 114,  
231) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4411, 17.8041, 77.9605 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 114, 231) }
```

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

```
.background{ background-color: rgb(0, 114,  
231) }
```

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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