

Converting Colors

XYZ(13.0865, 18.0199, 46.1917)

Have a look what the booklet for
XYZ(13.0865, 18.0199, 46.1917)
contains.

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Color

**XYZ(16.4895, 19.7978,
46.1323)**

Conversions

Conversions Part 1

Format	Color
Hex	0084B4
RGB	0, 132, 180
RGB Percent	0%, 52%, 71%
CMY	0.9999, 0.4823, 0.2941
CMYK	1.00, 0.27, 0.00, 0.29
HSL	196°, 100%, 35%
HSV	196°, 100%, 71%
XYZ	16.4895, 19.7978, 46.1323
YIQ	98.0040, -94.0800, -13.0560

Conversions

Conversions Part 2

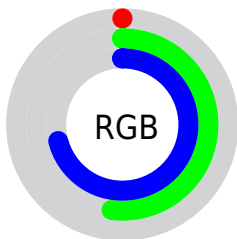
Format	Color
RYB	0, 76, 180
Decimal	33972
CIELab	51.61, -12.55, -33.65
CIELCh	52, 35.913, 249.548
Yxy	19.7978, 0.2001, 0.2402
Android (android.graphics.Color)	4278224052 (0xFF0084B4)
YUV	98.0040, 40.4240, -85.9495
Hunter-Lab	44.4947, -11.7146, -30.3258

Details

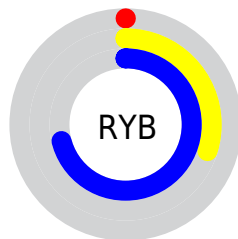
The XYZ color **16.4895, 19.7978, 46.1323** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **19.8812, 11.8204, 1.2348**, and the grayscale version is **11.5329, 12.1335, 13.2133**.

A 20% lighter version of the original color is **37.0035, 43.0812, 85.7221**, and **6.9240, 7.7188, 21.2036** is the 20% darker color. If you saturate the color by 10%, you get **16.4884, 19.7955, 46.1323**, and if you desaturate by 10%, it is **17.4060, 21.2594, 46.3665**.

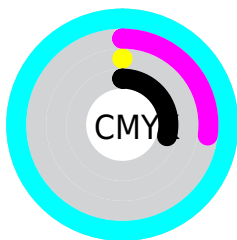
Distribution



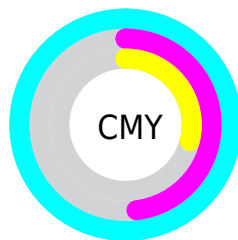
- Red (0%)
- Green (52%)
- Blue (71%)



- Red (0%)
- Yellow (30%)
- Blue (71%)



- Cyan (100%)
- Magenta (27%)
- Yellow (0%)
- Black (29%)



- Cyan (100%)
- Magenta (48%)
- Yellow (29%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.4895, 19.7978, 46.1323 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 16.4895, 19.7978, 46.1323 by changing the saturation by 10% instead.

■ 16.4895, 19.7978,
46.1323

■ 16.4895, 19.7978,
46.1323

■ 225.4271,
250.8184, 387.6333

■ 9.9642, 12.2481,
32.0008

■ 36.9966, 43.0779,
85.7533

■ 5.4373, 6.9129,
21.0973

■ 51.7091, 59.5772,
112.0800

■ 2.5434, 3.4077,
13.0032

■ 69.8814, 79.8284,
143.3087

■ 0.9172, 1.3481,
7.3000

■ 91.8788, 104.2161,
179.8581

■ 0.0000, 0.1780,
3.5691

■ 118.0667,
133.1245, 222.1468

■ 0.0000, 0.0000,
1.3921

■ 148.8105,

■ 0.0000, 0.0000,

166.9381, 270.5931

0.1355

184.4756,
206.0413, 325.6158

■ 0.0000, 0.0000,
0.0000

■ 16.4895, 19.7978,
46.1323

■ 16.4895, 19.7978,
46.1323

■ 16.4884, 19.7955,
46.1323

■ 17.4060, 21.2594,
46.3665

■ 18.5812, 22.8992,
46.6211

■ 20.1029, 24.7632,
46.9007

■ 22.0132, 26.8738,
47.2074

■ 24.3479, 29.2498,
47.5430

■ 27.1384, 31.9082,
47.9090

■ 30.4131, 34.8639,
48.3069

■ 34.1980, 38.1310,
48.7380

■ 38.5171, 41.7224,
49.2036

Harmonies

Analogous

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



13.9464, 19.7978, 36.8941



16.4895, 19.7978, 46.1323



19.9950, 19.7978, 47.7788

Triad

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



16.4895, 19.7978, 46.1323



26.5453, 19.7978, 18.4175



14.7260, 19.7978, 9.5539

Complementary

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



16.4895, 19.7978, 46.1323



19.8812, 11.8204, 1.2348

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.



17.6866, 19.7978, 7.2733



16.4895, 19.7978, 46.1323



24.7076, 19.7978, 11.1961

Square

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



16.4895, 19.7978, 46.1323



26.1173, 19.7978, 29.2947



21.3543, 19.7978, 7.7586



13.0225, 19.7978, 15.3171

Rectangle

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



16.4895, 19.7978, 46.1323



22.4608, 19.7978, 43.9499



21.3543, 19.7978, 7.7586



15.5906, 19.7978, 8.4541

Sweetspot

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



16.4902, 19.7985, 46.1328



54.8049, 62.9149, 87.5499



16.8560, 32.8567, 8.2529



11.2937, 13.1059, 18.8567



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



16.4902, 19.7985, 46.1328



29.6955, 35.4908, 83.5799



9.0678, 4.9535, 43.6586



8.5471, 9.2404, 10.8394



11.5652, 13.9307, 32.2163



0.4087, 0.5280, 1.0286

Inverse Universe

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



22.9879, 11.3702, 22.8134



41.5781, 20.5738, 40.8236



27.9126, 27.8831, 3.9119



8.7513, 8.6073, 10.1890



16.0722, 7.9464, 16.0721



0.5283, 0.2591, 0.6249

Previews

White Background



This preview shows how the XYZ color 16.4895, 19.7978, 46.1323 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 16.4895, 19.7978, 46.1323 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 16.4895, 19.7978, 46.1323

Background



This preview shows how black text looks on a background with the XYZ color 16.4895, 19.7978, 46.1323.

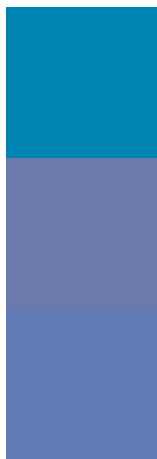


This preview shows how white text looks on a background with the XYZ color 16.4895, 19.7978,

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

16.4895, 19.7978, 46.1323

Protanopia

20.2515, 19.7408, 41.2711

Deuteranopia

20.2269, 19.7833, 47.0084



Tritanopia

14.0706, 19.7149, 30.6675

Trichromacy



Original Color

16.4895, 19.7978, 46.1323

Protanomaly

17.3575, 18.9522, 42.7877

Deuteranomaly

17.7258, 19.2500, 46.4974

Tritanomaly

14.9220, 19.8311, 35.8422

Monochromacy



Original Color

16.4895, 19.7978, 46.1323

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.4588, 13.7345, 22.4692

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.4895, 19.7978, 46.1323 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, 132, 180)` looks like.

```
.text, #text, p{  
    color:rgb(0, 132, 180)  
}
```

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, 132, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 132, 180) }
```

Border

The CSS property to change the border of an element to XYZ 16.4895, 19.7978, 46.1323 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, 132, 180) }
```


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

```
.border{ border-color:rgb(0, 132, 180) }
```

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

Here you see how a box with a 4 pixel rgb(0, 132, 180) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 132, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 132, 180);  
box-shadow:4px 4px 4px 4px rgb(0, 132,  
180) }
```

Background

The CSS property to change the background color of an element to XYZ 16.4895, 19.7978, 46.1323 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 132, 180) }
```

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

```
.background{ background-color: rgb(0, 132,  
180) }
```

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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