

Converting Colors

XYZ(4.7810, 12.8595, 50.1116)

Have a look what the booklet for
XYZ(4.7810, 12.8595, 50.1116)
contains.

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Color

**XYZ(16.9045, 19.1125,
50.9422)**

Conversions

Conversions Part 1

| Format | Color |
|---------------|----------------------------|
| Hex | 0080BD |
| RGB | 0, 128, 189 |
| RGB Percent | 0%, 50%, 74% |
| CMY | 0.9998, 0.4980, 0.2588 |
| CMYK | 1.00, 0.32, 0.00, 0.26 |
| HSL | 199°, 100%, 37% |
| HSV | 199°, 100%, 74% |
| XYZ | 16.9045, 19.1125, 50.9422 |
| YIQ | 96.6820, -95.8690, -8.1650 |

Conversions

Conversions Part 2

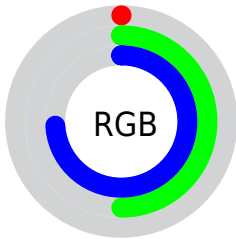
| Format | Color |
|-------------------------------------|-------------------------------|
| RYB | 0, 76, 189 |
| Decimal | 32957 |
| CIELab | 50.82, -6.83, -40.06 |
| CIELCh | 51, 40.637, 260.329 |
| Yxy | 19.1125, 0.1944, 0.2198 |
| Android (android.graphics.Color) | 4278223037 (0xFF0080BD) |
| YUV | 96.6820, 45.5128, -84.7901 |
| Hunter-Lab | 43.7178, -7.4851, -38.4852 |

Details

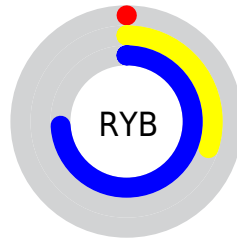
The XYZ color **16.9045, 19.1125, 50.9422** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **22.6575, 14.1606, 1.5402**, and the grayscale version is **11.1965, 11.7796, 12.8280**.

A 20% lighter version of the original color is **37.8777, 42.1345, 93.3252**, and **7.1692, 7.3412, 23.9608** is the 20% darker color. If you saturate the color by 10%, you get **16.9031, 19.1095, 50.9421**, and if you desaturate by 10%, it is **17.9921, 20.8906, 51.2285**.

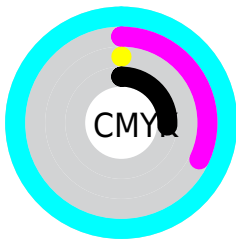
Distribution



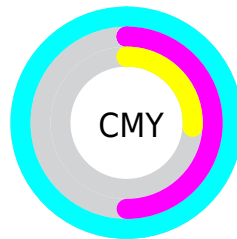
- Red (0%)
- Green (50%)
- Blue (74%)



- Red (0%)
- Yellow (30%)
- Blue (74%)



- Cyan (100%)
- Magenta (32%)
- Yellow (0%)
- Black (26%)



- Cyan (100%)
- Magenta (50%)
- Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.9045, 19.1125, 50.9422 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 16.9045, 19.1125, 50.9422 by changing the saturation by 10% instead.

■ 16.9045, 19.1125,
50.9422

■ 16.9045, 19.1125,
50.9422

227.7884,
247.0691, 407.1793

■ 10.2613, 11.7516,
35.7862

■ 37.7064, 41.9241,
92.9800

■ 5.6361, 6.5748,
23.9807

■ 52.5958, 58.1436,
120.6988

■ 2.6637, 3.1976,
15.1073

■ 70.9647, 78.0848,
153.4423

■ 0.9785, 1.2358,
8.7472

■ 93.1784, 102.1320,
191.6291

■ 0.0000, 0.0906,
4.4821

■ 119.6023,
130.6696, 235.6776

■ 0.0000, 0.0000,
1.8934

■ 150.6017,

■ 0.0000, 0.0000,

164.0821, 286.0065

0.4885

186.5419,
202.7538, 343.0342

■ 0.0000, 0.0000,
0.0000

■ 16.9045, 19.1125,
50.9422

■ 16.9045, 19.1125,
50.9422

■ 16.9031, 19.1095,
50.9421

■ 17.9921, 20.8906,
51.2285

■ 19.3867, 22.8990,
51.5427

■ 21.1839, 25.1883,
51.8898

■ 23.4316, 27.7845,
52.2725

■ 26.1707, 30.7097,
52.6927

■ 29.4369, 33.9834,
53.1525

■ 33.2626, 37.6235,
53.6534

■ 37.6774, 41.6462,
54.1972

■ 42.7087, 46.0667,
54.7853

Harmonies

Analogous

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



13.6860, 19.1125, 42.7793



16.9045, 19.1125, 50.9422



20.9703, 19.1125, 49.0434

Triad

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



16.9045, 19.1125, 50.9422



26.3722, 19.1125, 14.0590



12.8668, 19.1125, 9.6802

Complementary

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



16.9045, 19.1125, 50.9422



22.6575, 14.1606, 1.5402

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.



15.6233, 19.1125, 6.2376



16.9045, 19.1125, 50.9422



23.5299, 19.1125, 8.0455

Square

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



16.9045, 19.1125, 50.9422



26.8490, 19.1125, 24.7332



19.4885, 19.1125, 5.7753



11.5913, 19.1125, 17.3257

Rectangle

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



16.9045, 19.1125, 50.9422



23.6104, 19.1125, 42.5171



19.4885, 19.1125, 5.7753



13.6301, 19.1125, 8.1321

Sweetspot

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



16.9052, 19.1131, 50.9427



59.2049, 67.0405, 96.0459



19.0106, 36.7207, 10.3438



12.0883, 13.8112, 20.5713



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



16.9052, 19.1131, 50.9427



30.0463, 33.7711, 91.1611



9.7776, 4.8579, 48.5668



9.5419, 10.2761, 12.1528



11.4444, 13.0006, 34.2991



0.5052, 0.6230, 1.3625

Inverse Universe

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



24.8832, 12.3783, 21.5003



44.4488, 22.1214, 37.8955



32.6014, 34.0485, 4.8549



9.7954, 9.6424, 11.3114



16.7774, 8.3421, 14.6532



0.6859, 0.3383, 0.7252

Previews

White Background



This preview shows how the XYZ color 16.9045, 19.1125, 50.9422 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 16.9045, 19.1125, 50.9422 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

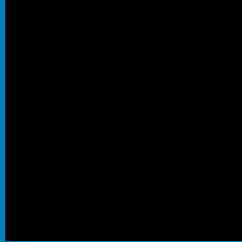
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 16.9045, 19.1125, 50.9422

Background



This preview shows how black text looks on a background with the XYZ color 16.9045, 19.1125, 50.9422.



This preview shows how white text looks on a background with the XYZ color 16.9045, 19.1125,

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

16.9045, 19.1125, 50.9422

Protanopia

19.9645, 18.9457, 46.3207

Deuteranopia

19.7210, 19.2302, 51.9626



Tritanopia

13.5591, 19.0638, 29.3506

Trichromacy



Original Color

16.9045, 19.1125, 50.9422

Protanomaly

17.6612, 18.4365, 47.9752

Deuteranomaly

17.9181, 18.8631, 51.4118

Tritanomaly

14.5964, 19.0406, 36.1636

Monochromacy



Original Color

16.9045, 19.1125, 50.9422

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

11.3784, 13.3610, 23.0983

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.9045, 19.1125, 50.9422 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, 128, 189)` looks like.

```
.text, #text, p{  
    color:rgb(0, 128, 189)  
}
```

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, 128, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 128, 189) }
```

Border

The CSS property to change the border of an element to XYZ 16.9045, 19.1125, 50.9422 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, 128, 189) }
```


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

```
.border{ border-color:rgb(0, 128, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 128, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 128, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 128, 189);  
box-shadow:4px 4px 4px 4px rgb(0, 128,  
189) }
```

Background

The CSS property to change the background color of an element to XYZ 16.9045, 19.1125, 50.9422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 128, 189) }
```

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

```
.background{ background-color: rgb(0, 128,  
189) }
```

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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