

Converting Colors

XYZ(12.1163, 16.7221, 47.6323)

Have a look what the booklet for
XYZ(12.1163, 16.7221, 47.6323)
contains.

XYZ(16.2664, 18.8572, 47.5822)	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(16.2664, 18.8572,
47.5822)**

Conversions

Conversions Part 1

Format	Color
Hex	0080B7
RGB	0, 128, 183
RGB Percent	0%, 50%, 72%
CMY	0.9999, 0.4980, 0.2824
CMYK	1.00, 0.30, 0.00, 0.28
HSL	198°, 100%, 36%
HSV	198°, 100%, 72%
XYZ	16.2664, 18.8572, 47.5822
YIQ	95.9980, -93.9430, -10.0310

Conversions

Conversions Part 2

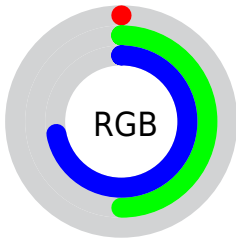
Format	Color
RYB	0, 75, 183
Decimal	32951
CIELab	50.52, -9.12, -37.08
CIELCh	51, 38.188, 256.180
Yxy	18.8572, 0.1967, 0.2280
Android (android.graphics.Color)	4278223031 (0xFF0080B7)
YUV	95.9980, 42.8920, -84.1902
Hunter-Lab	43.4249, -9.1297, -34.5688

Details

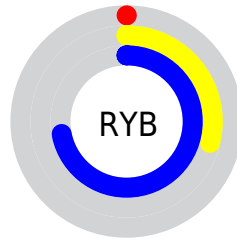
The XYZ color **16.2664, 18.8572, 47.5822** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **20.8967, 12.8033, 1.3710**, and the grayscale version is **11.0362, 11.6110, 12.6444**.

A 20% lighter version of the original color is **36.6181, 41.6069, 87.7623**, and **6.8252, 7.2037, 22.1498** is the 20% darker color. If you saturate the color by 10%, you get **16.2652, 18.8547, 47.5822**, and if you desaturate by 10%, it is **17.2596, 20.4637, 47.8403**.

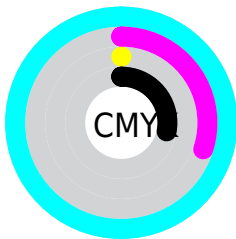
Distribution



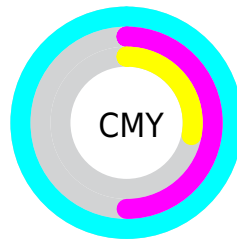
- Red (0%)
- Green (50%)
- Blue (72%)



- Red (0%)
- Yellow (29%)
- Blue (72%)



- Cyan (100%)
- Magenta (30%)
- Yellow (0%)
- Black (28%)



- Cyan (100%)
- Magenta (50%)
- Yellow (28%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.2664, 18.8572, 47.5822 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 16.2664, 18.8572, 47.5822 by changing the saturation by 10% instead.

■ 16.2664, 18.8572,
47.5822

■ 16.2664, 18.8572,
47.5822

■ 224.1482,
245.6593, 393.5945

■ 9.8049, 11.5671,
33.1385

■ 36.6138, 41.4927,
87.9411

■ 5.3311, 6.4497,
21.9606

■ 51.2304, 57.6069,
114.6933

■ 2.4795, 3.1204,
13.6299

■ 69.2961, 77.4312,
146.3855

■ 0.8849, 1.1949,
7.7279

■ 91.1762, 101.3501,
183.4362

■ 0.0000, 0.0575,
3.8361

■ 117.2361,
129.7480, 226.2639

■ 0.0000, 0.0000,
1.5359

■ 147.8412,

■ 0.0000, 0.0000,

163.0092, 275.2872

0.2444

183.3568,
201.5182, 330.9245

■ 0.0000, 0.0000,
0.0000

■ 16.2664, 18.8572,
47.5822

■ 16.2664, 18.8572,
47.5822

■ 16.2652, 18.8547,
47.5822

■ 17.2596, 20.4637,
47.8403

■ 18.5304, 22.2718,
48.1224

■ 20.1693, 24.3290,
48.4331

■ 22.2202, 26.6591,
48.7747

■ 24.7207, 29.2821,
49.1492

■ 27.7037, 32.2159,
49.5583

■ 31.1990, 35.4765,
50.0034

■ 35.2337, 39.0788,
50.4861

■ 39.8331, 43.0366,
51.0076

Harmonies

Analogous

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



13.4079, 18.8572, 39.1707



16.2664, 18.8572, 47.5822



19.9938, 18.8572, 47.2003

Triad

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



16.2664, 18.8572, 47.5822



25.7183, 18.8572, 15.3309



13.2367, 18.8572, 9.3537

Complementary

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



16.2664, 18.8572, 47.5822



20.8967, 12.8033, 1.3710

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.



16.0007, 18.8572, 6.4622



16.2664, 18.8572, 47.5822



23.3531, 18.8572, 9.0044

Square

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



16.2664, 18.8572, 47.5822



25.8156, 18.8572, 25.8314



19.6889, 18.8572, 6.3615



11.8296, 18.8572, 16.0124

Rectangle

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



16.2664, 18.8572, 47.5822



22.4919, 18.8572, 41.9352



19.6889, 18.8572, 6.3615



14.0193, 18.8572, 8.0281

Sweetspot

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



16.2671, 18.8578, 47.5827



55.5303, 63.2214, 89.5119



17.6219, 34.1426, 9.2666



11.6630, 13.4083, 19.6950



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988

Same Dimension

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



16.2671, 18.8578, 47.5827



28.9191, 33.3454, 85.1478



9.1979, 4.7194, 45.2263



9.0326, 9.7425, 11.4838



11.4091, 13.2778, 33.2146



0.4537, 0.5710, 1.1881

Inverse Universe

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



23.4254, 11.6267, 21.4320



41.8454, 20.7785, 37.8152



29.8707, 30.7512, 4.3623



9.2628, 9.1155, 10.7314



16.3725, 8.1227, 15.1140



0.6031, 0.2967, 0.6696

Previews

White Background



This preview shows how the XYZ color 16.2664, 18.8572, 47.5822 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 16.2664, 18.8572, 47.5822 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

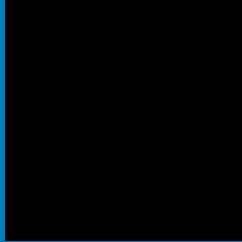
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 16.2664, 18.8572, 47.5822

Background



This preview shows how black text looks on a background with the XYZ color 16.2664, 18.8572, 47.5822.

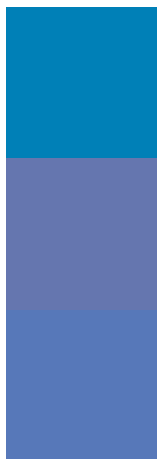


This preview shows how white text looks on a background with the XYZ color 16.2664, 18.8572,

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

16.2664, 18.8572, 47.5822

Protanopia

19.5831, 18.8187, 43.1577

Deuteranopia

19.4039, 18.9620, 48.5363



Tritanopia

13.3455, 18.7582, 28.9039

Trichromacy



Original Color

16.2664, 18.8572, 47.5822

Protanomaly

17.1098, 18.2234, 44.7352

Deuteranomaly

17.3102, 18.4388, 47.9941

Tritanomaly

14.2879, 18.7012, 35.2044

Monochromacy



Original Color

16.2664, 18.8572, 47.5822

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

11.1833, 13.2757, 22.3951

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.2664, 18.8572, 47.5822 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, 183)` looks like.

```
.text, #text, p{  
    color:rgb(0, 128, 183)  
}
```

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, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 128, 183) }
```

Border

The CSS property to change the border of an element to XYZ 16.2664, 18.8572, 47.5822 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, 183) }
```


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

```
.border{ border-color:rgb(0, 128, 183) }
```

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, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 128, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 128, 183);  
box-shadow:4px 4px 4px 4px rgb(0, 128,  
183) }
```

Background

The CSS property to change the background color of an element to XYZ 16.2664, 18.8572, 47.5822 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, 183) }
```

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

```
.background{ background-color: rgb(0, 128,  
183) }
```

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