

Converting Colors

XYZ(8.1000, 12.9227, 49.3612)

Have a look what the booklet for
XYZ(8.1000, 12.9227, 49.3612)
contains.

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Color

**XYZ(15.5665, 16.7815,
49.4324)**

Conversions

Conversions Part 1

Format	Color
Hex	0077BB
RGB	0, 119, 187
RGB Percent	0%, 47%, 73%
CMY	0.9998, 0.5333, 0.2667
CMYK	1.00, 0.36, 0.00, 0.27
HSL	202°, 100%, 37%
HSV	202°, 100%, 73%
XYZ	15.5665, 16.7815, 49.4324
YIQ	91.1710, -92.7520, -4.0800

Conversions

Conversions Part 2

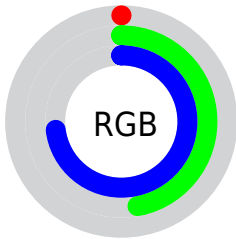
Format	Color
RYB	0, 73, 187
Decimal	30651
CIELab	47.98, -2.23, -43.40
CIELCh	48, 43.455, 267.058
Yxy	16.7815, 0.1903, 0.2052
Android (android.graphics.Color)	4278220731 (0xFF0077BB)
YUV	91.1710, 47.2437, -79.9570
Hunter-Lab	40.9652, -3.8604, -42.8691

Details

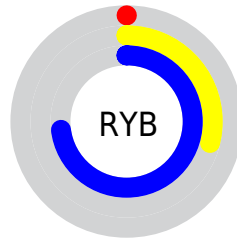
The XYZ color **15.5665, 16.7815, 49.4324** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **22.5636, 14.7043, 1.6502**, and the grayscale version is **9.8969, 10.4123, 11.3390**.

A 20% lighter version of the original color is **35.5081, 38.0372, 91.0584**, and **6.4869, 6.1999, 23.0451** is the 20% darker color. If you saturate the color by 10%, you get **15.5648, 16.7781, 49.4322**, and if you desaturate by 10%, it is **16.6689, 18.5950, 49.7247**.

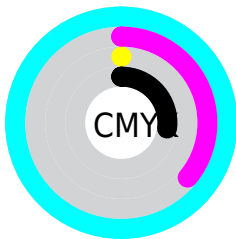
Distribution



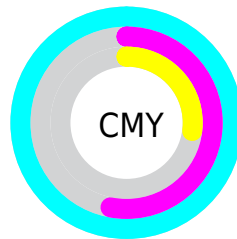
- Red (0%)
- Green (47%)
- Blue (73%)



- Red (0%)
- Yellow (29%)
- Blue (73%)



- Cyan (100%)
- Magenta (36%)
- Yellow (0%)
- Black (27%)



- Cyan (100%)
- Magenta (53%)
- Yellow (27%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 15.5665, 16.7815, 49.4324 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 15.5665, 16.7815, 49.4324 by changing the saturation by 10% instead.

■ 15.5665, 16.7815,
49.4324

■ 15.5665, 16.7815,
49.4324

220.0910,
233.9101, 401.1134

■ 9.3068, 10.0788,
34.5946

■ 35.4075, 37.9497,
90.7210

■ 5.0006, 5.4513,
23.0697

■ 49.7196, 53.1840,
118.0088

■ 2.2823, 2.5144,
14.4392

■ 67.4465, 72.0311,
150.2837

■ 0.7856, 0.8838,
8.2845

■ 88.9536, 94.8751,
187.9642

■ 0.0000, 0.0000,
4.1872

■ 114.6062,
122.1007, 231.4689

■ 0.0000, 0.0000,
1.7286

■ 144.7698,

■ 0.0000, 0.0000,

154.0921, 281.2163

0.3802

179.8096,
191.2338, 337.6250

■ 0.0000, 0.0000,
0.0000

■ 15.5665, 16.7815,
49.4324

■ 15.5665, 16.7815,
49.4324

■ 15.5648, 16.7781,
49.4322

■ 16.6689, 18.5950,
49.7247

■ 18.0820, 20.6562,
50.0481

■ 19.9000, 23.0156,
50.4077

■ 22.1699, 25.6990,
50.8060

■ 24.9316, 28.7287,
51.2452

■ 28.2206, 32.1243,
51.7273

■ 32.0686, 35.9039,
52.2540

■ 36.5046, 40.0839,
52.8270

■ 41.5558, 44.6796,
53.4479

Harmonies

Analogous

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



12.1916, 16.7815, 43.0442



15.5665, 16.7815, 49.4324



19.6318, 16.7815, 45.0360

Triad

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



15.5665, 16.7815, 49.4324



23.6509, 16.7815, 10.1046



10.4227, 16.7815, 8.8659

Complementary

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



15.5665, 16.7815, 49.4324



22.5636, 14.7043, 1.6502

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.



12.7605, 16.7815, 4.9996



15.5665, 16.7815, 49.4324



20.4116, 16.7815, 5.4813

Square

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



15.5665, 16.7815, 49.4324



24.7270, 16.7815, 19.4029



16.3404, 16.7815, 4.0786



9.5433, 16.7815, 17.1863

Rectangle

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



15.5665, 16.7815, 49.4324



22.1308, 16.7815, 37.2831



16.3404, 16.7815, 4.0786



11.0431, 16.7815, 7.1564

Sweetspot

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



15.5672, 16.7820, 49.4328



57.0594, 63.9426, 93.5362



18.7390, 35.9284, 11.0211



11.8998, 13.4342, 20.5084



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.



15.5672, 16.7820, 49.4328



27.6433, 29.5832, 88.4546



9.3875, 4.4228, 47.3730



9.5088, 10.2100, 12.1418



10.7948, 11.7013, 34.0825



0.4830, 0.5787, 1.3551

Inverse Universe

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



23.8240, 11.8977, 18.4939



42.5482, 21.2593, 32.4938



32.8846, 35.3464, 5.0905



9.7787, 9.6358, 11.2236



16.4495, 8.2109, 12.9264



0.6747, 0.3338, 0.6662

Previews

White Background



This preview shows how the XYZ color 15.5665, 16.7815, 49.4324 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 15.5665, 16.7815, 49.4324 looks on a black 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

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

XYZ 15.5665, 16.7815, 49.4324

Background



This preview shows how black text looks on a background with the XYZ color 15.5665, 16.7815, 49.4324.

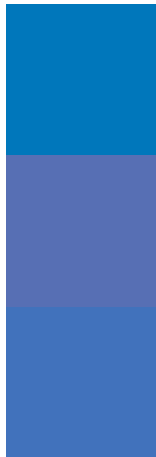


This preview shows how white text looks on a background with the XYZ color 15.5665, 16.7815,

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

15.5665, 16.7815, 49.4324

Protanopia

17.8531, 16.6904, 45.4606

Deuteranopia

17.2744, 16.7893, 49.9072



Tritanopia

11.8340, 16.6710, 25.5158

Trichromacy



Original Color

15.5665, 16.7815, 49.4324

Protanomaly

16.1401, 16.2657, 47.0887

Deuteranomaly

16.2369, 16.5930, 49.9240

Tritanomaly

12.9157, 16.4990, 33.0757

Monochromacy



Original Color

15.5665, 16.7815, 49.4324

Achromatopsia

9.9438, 10.4616, 11.3927

Achromatomaly

10.1645, 11.7133, 21.4638

CSS Examples

Text

The CSS property to change the color of the text to XYZ 15.5665, 16.7815, 49.4324 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, 119, 187)` looks like.

```
.text, #text, p{  
    color:rgb(0, 119, 187)  
}
```

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, 119, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 187) }
```

Border

The CSS property to change the border of an element to XYZ 15.5665, 16.7815, 49.4324 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, 119, 187) }
```


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

```
.border{ border-color:rgb(0, 119, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 119, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 187);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
187) }
```

Background

The CSS property to change the background color of an element to XYZ 15.5665, 16.7815, 49.4324 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 119, 187) }
```

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

```
.background{ background-color: rgb(0, 119,  
187) }
```

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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