

Converting Colors

XYZ(12.2051, 15.5370, 30.3986)

Have a look what the booklet for
XYZ(12.2051, 15.5370, 30.3986)
contains.

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Color

**XYZ(12.1558, 15.4419,
30.3569)**

Conversions

Conversions Part 1

Format	Color
Hex	107794
RGB	16, 119, 148
RGB Percent	6%, 47%, 58%
CMY	0.9372, 0.5333, 0.4196
CMYK	0.89, 0.20, 0.00, 0.42
HSL	193°, 80%, 32%
HSV	193°, 89%, 58%
XYZ	12.1558, 15.4419, 30.3569
YIQ	91.5090, -70.6970, -12.8170

Conversions

Conversions Part 2

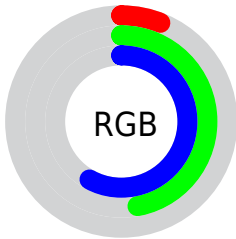
Format	Color
RYB	16, 74, 148
Decimal	1079188
CIELab	46.23, -16.33, -23.36
CIELCh	46, 28.502, 235.033
Yxy	15.4419, 0.2097, 0.2664
Android (android.graphics.Color)	4279269268 (0xFF107794)
YUV	91.5090, 27.8501, -66.2214
Hunter-Lab	39.2962, -13.5515, -18.2951

Details

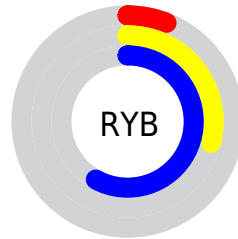
The XYZ color **12.1558, 15.4419, 30.3569** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **13.2455, 8.2114, 1.3777**, and the grayscale version is **10.0112, 10.5325, 11.4699**.

A 20% lighter version of the original color is **29.3434, 35.5139, 61.1854**, and **4.3478, 5.2434, 12.0922** is the 20% darker color. If you saturate the color by 10%, you get **11.5771, 14.5791, 30.2212**, and if you desaturate by 10%, it is **12.8956, 16.4080, 30.5047**.

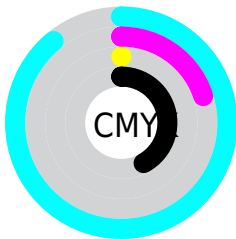
Distribution



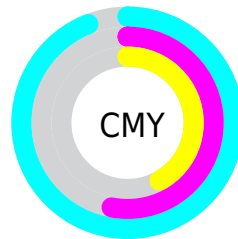
- Red (6%)
- Green (47%)
- Blue (58%)



- Red (6%)
- Yellow (29%)
- Blue (58%)



- Cyan (89%)
- Magenta (20%)
- Yellow (0%)
- Black (42%)



- Cyan (94%)
- Magenta (53%)
- Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1558, 15.4419, 30.3569 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 12.1558, 15.4419, 30.3569 by changing the saturation by 10% instead.

12.1558, 15.4419,
30.3569

12.1558, 15.4419,
30.3569

199.1829,
226.0256, 317.8235

6.9228, 9.1301,
19.8553

29.3929, 35.6266,
61.2938

3.4598, 4.8261,
12.1069

42.1278, 50.2682,
82.5662

1.4013, 2.1456,
6.6931

58.0941, 68.4553,
108.2659

0.2572, 0.6901,
3.1954

77.6570, 90.5721,
138.8115

0.0000, 0.0000,
1.1952

101.1820,
117.0032, 174.6215

0.0000, 0.0000,
0.0000

129.0344,

148.1329, 216.1145

161.5796,
184.3455, 263.7089

■ 12.1558, 15.4419,
30.3569

■ 12.1558, 15.4419,
30.3569

■ 11.5771, 14.5791,
30.2212

■ 12.8956, 16.4080,
30.5047

■ 11.5312, 14.5099,
30.2102

■ 13.8526, 17.5056,
30.6661

■ 15.0524, 18.7484,
30.8428

■ 16.5165, 20.1477,
31.0357

■ 18.2639, 21.7134,
31.2458

■ 20.3118, 23.4547,
31.4740

■ 22.6761, 25.3799,
31.7209

■ 25.3714, 27.4966,
31.9875

■ 28.4115, 29.8122,
32.2742

Harmonies

Analogous

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



10.8331, 15.4419, 23.1441



12.1558, 15.4419, 30.3569



14.2757, 15.4419, 34.0057

Triad

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



12.1558, 15.4419, 30.3569



19.8486, 15.4419, 18.0006



12.7851, 15.4419, 7.3611

Complementary

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



12.1558, 15.4419, 30.3569



13.2455, 8.2114, 1.3777

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.



15.0859, 15.4419, 6.6862



12.1558, 15.4419, 30.3569



19.3372, 15.4419, 11.7576

Square

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



12.1558, 15.4419, 30.3569



18.8544, 15.4419, 25.7207



17.5249, 15.4419, 8.0504



11.1674, 15.4419, 10.2445

Rectangle

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



12.1558, 15.4419, 30.3569



15.9242, 15.4419, 33.3571



17.5249, 15.4419, 8.0504



13.4968, 15.4419, 6.9093

Sweetspot

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



12.1563, 15.4424, 30.3573



36.4835, 41.9183, 55.6027



11.2702, 21.4769, 5.9952



8.0560, 9.3427, 12.6636



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.1563, 15.4424, 30.3573



20.2152, 25.3400, 53.2602



6.8513, 4.8324, 28.5889



5.8571, 6.3482, 7.3864



9.8699, 12.4347, 25.8110



0.1423, 0.1951, 0.3231

Inverse Universe

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



15.7283, 7.9990, 18.1682



26.9919, 13.2861, 29.6715



17.9480, 17.6164, 2.9452



5.9813, 5.8876, 7.0078



13.1090, 6.4486, 14.5867



0.1713, 0.0833, 0.2356

Previews

White Background



This preview shows how the XYZ color 12.1558, 15.4419, 30.3569 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 12.1558, 15.4419, 30.3569 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 12.1558, 15.4419, 30.3569

Background



This preview shows how black text looks on a background with the XYZ color 12.1558, 15.4419, 30.3569.

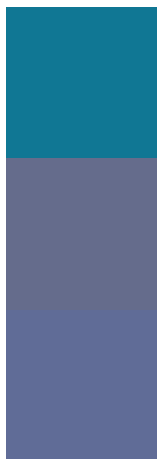


This preview shows how white text looks on a background with the XYZ color 12.1558, 15.4419,

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

12.1558, 15.4419, 30.3569

Protanopia

15.4630, 15.3853, 26.9656

Deuteranopia

15.7723, 15.4463, 31.4283



Tritanopia

10.9341, 15.3134, 23.8522

Trichromacy



Original Color

12.1558, 15.4419, 30.3569

Protanomaly

13.2779, 14.8736, 28.1577

Deuteranomaly

13.6139, 14.9836, 31.0288

Tritanomaly

11.3069, 15.2778, 26.0199

Monochromacy



Original Color

12.1558, 15.4419, 30.3569

Achromatopsia

10.1725, 10.7023, 11.6548

Achromatomaly

9.7904, 11.7626, 17.0836

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1558, 15.4419, 30.3569 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(16, 119, 148)` looks like.

```
.text, #text, p{  
    color:rgb(16, 119, 148)  
}
```

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(16, 119, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(16, 119, 148) }
```

Border

The CSS property to change the border of an element to XYZ 12.1558, 15.4419, 30.3569 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(16, 119, 148) }
```


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

```
.border{ border-color:rgb(16, 119, 148) }
```

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

Here you see how a box with a 4 pixel rgb(16, 119, 148) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(16, 119, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(16, 119, 148);  
box-shadow:4px 4px 4px 4px rgb(16, 119,  
148) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1558, 15.4419, 30.3569 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(16, 119, 148) }
```

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

```
.background{ background-color: rgb(16, 119,  
148) }
```

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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