

Converting Colors

XYZ(12.2257, 18.9305, 15.0164)

Have a look what the booklet for
XYZ(12.2257, 18.9305, 15.0164)
contains.

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Color

**XYZ(12.2308, 18.9010,
15.0602)**

Conversions

Conversions Part 1

Format	Color
Hex	318764
RGB	49, 135, 100
RGB Percent	19%, 53%, 39%
CMY	0.8078, 0.4706, 0.6078
CMYK	0.64, 0.00, 0.26, 0.47
HSL	156°, 47%, 36%
HSV	156°, 64%, 53%
XYZ	12.2308, 18.9010, 15.0602
YIQ	105.2960, -40.0210, -29.1170

Conversions

Conversions Part 2

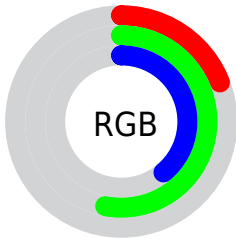
Format	Color
RYB	49, 103, 135
Decimal	3245924
CIELab	50.57, -34.51, 11.35
CIElCh	51, 36.331, 161.802
Yxy	18.9010, 0.2648, 0.4092
Android (android.graphics.Color)	4281436004 (0xFF318764)
YUV	105.2960, -2.6109, -49.3716
Hunter-Lab	43.4753, -25.8647, 9.8941




Details

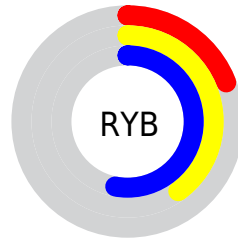
The XYZ color **12.2308, 18.9010, 15.0602** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.6908, 7.9880, 9.2610**, and the grayscale version is **13.5226, 14.2268, 15.4930**.




A 20% lighter version of the original color is **29.6092, 41.6328, 35.7535**, and **3.8129, 6.5977, 4.4407** is the 20% darker color. If you saturate the color by 10%, you get **11.4178, 18.5121, 13.6807**, and if you desaturate by 10%, it is **13.2579, 19.3992, 16.5442**.

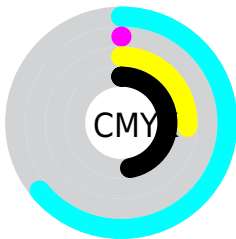
Distribution







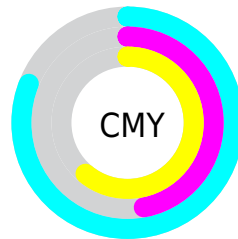
-  Red (19%)
-  Green (53%)
-  Blue (39%)






-  Red (19%)
-  Yellow (40%)
-  Blue (53%)



-  Cyan (64%)
-  Magenta (0%)
-  Yellow (26%)
-  Black (47%)





-  Cyan (81%)
-  Magenta (47%)
-  Yellow (61%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.2308, 18.9010, 15.0602 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 12.2308, 18.9010, 15.0602 by changing the saturation by 10% instead.


 12.2308, 18.9010,
15.0602


 12.2308, 18.9010,
15.0602


199.6662,
245.9017, 235.3836


 6.9744, 11.5988,
8.7146


 29.5280, 41.5667,
35.7025


 3.4923, 6.4711,
4.4612


 42.2995, 57.6990,
50.8363


 1.4191, 3.1336,
1.8816

 58.3067, 77.5435,
69.7366

 0.2698, 1.2019,
0.4810

 77.9150, 101.4845,
92.8218

 0.0000, 0.0632,
0.0000

 101.4897,
129.9064, 120.5106

 0.0000, 0.0000,
0.0000

 129.3963,

163.1936, 153.2215

162.0000,
201.7306, 191.3730

■ 12.2308, 18.9010,
15.0602

■ 12.2308, 18.9010,
15.0602

■ 11.4178, 18.5121,
13.6807

■ 13.2579, 19.3992,
16.5442

■ 10.7989, 18.2207,
12.4017

■ 14.5136, 20.0127,
18.1339

■ 10.3521, 18.0161,
11.2207

■ 16.0131, 20.7497,
19.8322

■ 10.1144, 17.9087,
10.5244

■ 17.7696, 21.6169,
21.6414

■ 19.7955, 22.6208,
23.5637

■ 22.1021, 23.7672,
25.6012

■ 24.7003, 25.0617,
27.7561

■ 27.6003, 26.5093,
30.0302

■ 30.8118, 28.1153,
32.4257

Harmonies

Analogous

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



13.7894, 18.9010, 9.1789



12.2308, 18.9010, 15.0602



12.0789, 18.9010, 24.8415

Triad

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



12.2308, 18.9010, 15.0602



19.3970, 18.9010, 46.2490



23.5469, 18.9010, 10.1087

Complementary

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



12.2308, 18.9010, 15.0602



12.6908, 7.9880, 9.2610

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.



25.5064, 18.9010, 16.8360



12.2308, 18.9010, 15.0602



22.9080, 18.9010, 38.8561

Square

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



12.2308, 18.9010, 15.0602



15.9169, 18.9010, 45.2876



25.2583, 18.9010, 27.3064



20.1813, 18.9010, 7.0377

Rectangle

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



12.2308, 18.9010, 15.0602



12.7671, 18.9010, 32.6923



25.2583, 18.9010, 27.3064



24.4106, 18.9010, 11.9036

Sweetspot

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



12.2313, 18.9018, 15.0606



33.3124, 39.4488, 40.2017



12.9501, 19.4740, 5.9822



7.5091, 9.0340, 9.1120



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.2313, 18.9018, 15.0606



19.9633, 32.9216, 23.5614



13.3378, 17.7979, 25.6549



4.7235, 5.2476, 5.5552



9.3331, 16.5161, 9.7397



0.0360, 0.0587, 0.0529

Inverse Universe

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



12.6908, 7.9880, 9.2610



20.8707, 11.7530, 12.3927



11.9688, 8.2175, 3.8612



4.7453, 4.7178, 5.2711



9.8546, 5.0062, 3.8064



0.0376, 0.0187, 0.0314

Previews

White Background



This preview shows how the XYZ color 12.2308, 18.9010, 15.0602 looks on a white background.

Color Contrast Check

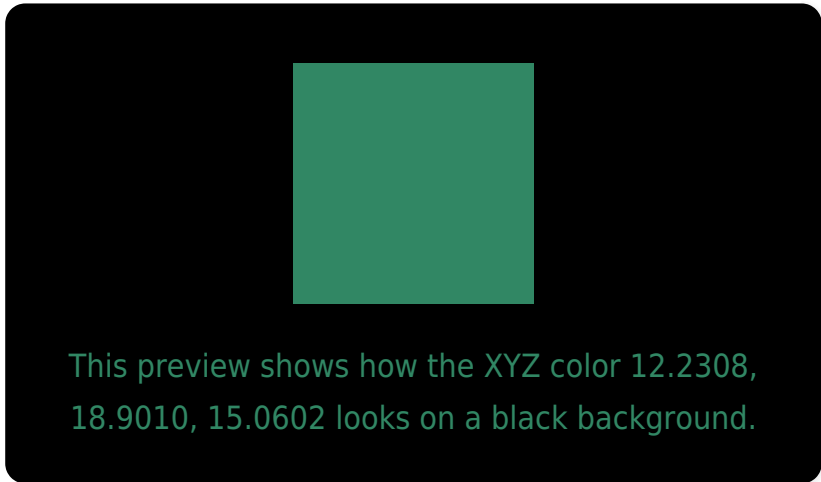
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



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 12.2308, 18.9010, 15.0602

Background



This preview shows how black text looks on a background with the XYZ color 12.2308, 18.9010, 15.0602.



This preview shows how white text looks on a background with the XYZ color 12.2308, 18.9010,

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

12.2308, 18.9010, 15.0602

Protanopia

17.4747, 18.5732, 13.0199

Deuteranopia

18.9460, 18.5793, 15.6843



Tritanopia

14.8306, 18.9487, 27.6868

Trichromacy



Original Color

12.2308, 18.9010, 15.0602

Protanomaly

14.5905, 18.1644, 13.8034

Deuteranomaly

15.2334, 17.9016, 15.4844

Tritanomaly

13.7566, 18.9130, 22.3276

Monochromacy



Original Color

12.2308, 18.9010, 15.0602

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.4399, 15.4013, 15.1491

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2308, 18.9010, 15.0602 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(49, 135, 100)` looks like.

```
.text, #text, p{  
    color:rgb(49, 135, 100)  
}
```

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(49, 135, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 135, 100) }
```

Border

The CSS property to change the border of an element to XYZ 12.2308, 18.9010, 15.0602 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(49, 135, 100) }
```


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

```
.border{ border-color:rgb(49, 135, 100) }
```

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

Here you see how a box with a 4 pixel rgb(49, 135, 100) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 135, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 135, 100);  
box-shadow:4px 4px 4px 4px rgb(49, 135,  
100) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2308, 18.9010, 15.0602 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 135, 100) }
```

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

```
.background{ background-color: rgb(49, 135,  
100) }
```

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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