

Converting Colors

XYZ(12.4375, 19.1299, 9.0768)

Have a look what the booklet for
XYZ(12.4375, 19.1299, 9.0768)
contains.

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Color

**XYZ(12.3998, 19.1225,
8.9987)**

Conversions

Conversions Part 1

Format	Color
Hex	478747
RGB	71, 135, 71
RGB Percent	28%, 53%, 28%
CMY	0.7216, 0.4706, 0.7216
CMYK	0.47, 0.00, 0.47, 0.47
HSL	120°, 31%, 40%
HSV	120°, 47%, 53%
XYZ	12.3998, 19.1225, 8.9987
YIQ	108.5680, -17.6000, -33.4720

Conversions

Conversions Part 2

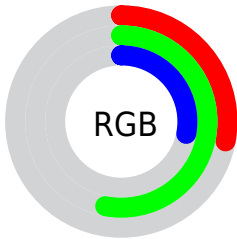
Format	Color
R_{YB}	71, 135, 135
Decimal	4687687
CIE _{Lab}	50.83, -34.47, 28.11
CIE _{LCh}	51, 44.480, 140.808
Yxy	19.1225, 0.3060, 0.4719
Android (android.graphics.Color)	4282877767 (0xFF478747)
YUV	108.5680, -18.5210, -32.9471
Hunter-Lab	43.7293, -25.9111, 18.4097

Details

The XYZ color **12.3998, 19.1225, 8.9987** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **16.6186, 11.4069, 24.2478**, and the grayscale version is **14.4682, 15.2217, 16.5764**.

A 20% lighter version of the original color is **29.9610, 42.0608, 24.6286**, and **3.5269, 6.5042, 1.9893** is the 20% darker color. If you saturate the color by 10%, you get **11.1314, 18.5138, 6.9237**, and if you desaturate by 10%, it is **13.9854, 19.8847, 11.5919**.

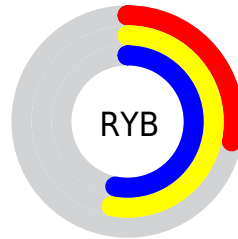
Distribution



Red (28%)

Green (53%)

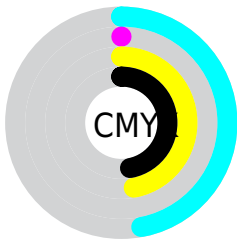
Blue (28%)



Red (28%)

Yellow (53%)

Blue (53%)

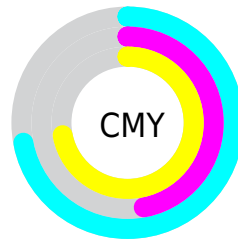


Cyan (47%)

Magenta (0%)

Yellow (47%)

Black (47%)



Cyan (72%)

Magenta (47%)

Yellow (72%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3998, 19.1225, 8.9987 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 12.3998, 19.1225, 8.9987 by changing the saturation by 10% instead.

■ 12.3998, 19.1225,
8.9987

■ 12.3998, 19.1225,
8.9987

200.7507,
247.1242, 193.5859

■ 7.0907, 11.7588,
4.6435

■ 29.8318, 41.9410,
24.4720

■ 3.5657, 6.5797,
1.9846

■ 42.6854, 58.1646,
36.4271

■ 1.4595, 3.2007,
0.5458

■ 58.7845, 78.1103,
51.7527

■ 0.2980, 1.2374,
0.0000

■ 78.4945, 102.1625,
70.8673

■ 0.0000, 0.0919,
0.0000

■ 102.1808,
130.7056, 94.1894

■ 0.0000, 0.0000,
0.0000

130.2087,

164.1240, 122.1374

162.9435,
202.8021, 155.1301

■ 12.3998, 19.1225,
8.9987

■ 12.3998, 19.1225,
8.9987

■ 11.1314, 18.5138,
6.9237

■ 13.9854, 19.8847,
11.5919

■ 10.1577, 18.0461,
5.3309

■ 15.9061, 20.8073,
14.7335

■ 9.4553, 17.7087,
4.1820


■ 18.1800, 21.8996,
18.4529


■ 8.9967, 17.4884,
3.4318


■ 20.8237, 23.1695,
22.7770


■ 8.7274, 17.3590,
2.9912

■ 23.8525, 24.6244,
27.7312

 8.6644, 17.3288,
2.8883

 27.2811, 26.2713,
33.3391

 31.1232, 28.1169,
39.6234

 35.3920, 30.1674,
46.6056

 40.1000, 32.4289,
54.3063

Harmonies

Analogous

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



15.3455, 19.1225, 5.4365



12.3998, 19.1225, 8.9987



11.0666, 19.1225, 17.2021

Triad

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



12.3998, 19.1225, 8.9987



16.8634, 19.1225, 54.8467



27.2362, 19.1225, 13.3763

Complementary

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



12.3998, 19.1225, 8.9987



16.6186, 11.4069, 24.2478

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.



27.8179, 19.1225, 24.9153



12.3998, 19.1225, 8.9987



21.3333, 19.1225, 52.4726

Square

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



12.3998, 19.1225, 8.9987



13.3573, 19.1225, 45.6579



25.5127, 19.1225, 40.0774



24.0317, 19.1225, 7.1667

Rectangle

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



12.3998, 19.1225, 8.9987



11.0962, 19.1225, 25.6780



25.5127, 19.1225, 40.0774



27.7631, 19.1225, 16.6189

Sweetspot

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



12.4003, 19.1233, 8.9991



33.9487, 39.8855, 35.3230



19.7939, 22.9348, 9.3448



7.6619, 9.1408, 7.8529



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.



12.4003, 19.1233, 8.9991



19.7617, 33.0707, 12.1177



13.7111, 19.6476, 15.9020



4.6163, 5.2048, 4.9907



7.9893, 15.9786, 2.6632



0.0277, 0.0554, 0.0092

Inverse Universe

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



16.6186, 11.4069, 24.2478



28.2854, 17.4787, 42.9296



14.6936, 10.6369, 14.1110



4.8579, 4.7628, 5.8640



13.2459, 6.3627, 21.6652



0.0459, 0.0220, 0.0751

Previews

White Background



This preview shows how the XYZ color 12.3998, 19.1225, 8.9987 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 12.3998, 19.1225, 8.9987 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 12.3998, 19.1225, 8.9987

Background



This preview shows how black text looks on a background with the XYZ color 12.3998, 19.1225, 8.9987.



This preview shows how white text looks on a background with the XYZ color 12.3998, 19.1225,

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

12.3998, 19.1225, 8.9987

Protanopia

17.2156, 18.7318, 7.8625

Deuteranopia

19.1123, 18.8030, 9.4595



Tritanopia

16.0529, 19.2046, 26.9055

Trichromacy



Original Color

12.3998, 19.1225, 8.9987

Protanomaly

14.8074, 18.3996, 8.2399

Deuteranomaly

15.6668, 18.2650, 9.1783

Tritanomaly

14.4618, 19.1530, 18.8543

Monochromacy



Original Color

12.3998, 19.1225, 8.9987

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

13.2633, 16.2160, 13.2574

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3998, 19.1225, 8.9987 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(71, 135, 71)` looks like.

```
.text, #text, p{  
    color:rgb(71, 135, 71)  
}
```

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(71, 135, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 135, 71) }
```

Border

The CSS property to change the border of an element to XYZ 12.3998, 19.1225, 8.9987 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(71, 135, 71) }
```


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

```
.border{ border-color:rgb(71, 135, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 135, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 135, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 135, 71);  
box-shadow:4px 4px 4px 4px rgb(71, 135,  
71) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3998, 19.1225, 8.9987 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 135, 71) }
```

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

```
.background{ background-color: rgb(71, 135,  
71) }
```

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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