

Converting Colors

XYZ(12.9607, 18.9687, 10.4778)

Have a look what the booklet for
XYZ(12.9607, 18.9687, 10.4778)
contains.

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Color

**XYZ(12.9774, 18.9739,
10.5678)**

Conversions

Conversions Part 1

Format	Color
Hex	4E8550
RGB	78, 133, 80
RGB Percent	31%, 52%, 31%
CMY	0.6941, 0.4784, 0.6863
CMYK	0.41, 0.00, 0.40, 0.48
HSL	122°, 26%, 41%
HSV	122°, 41%, 52%
XYZ	12.9774, 18.9739, 10.5678
YIQ	110.5130, -15.7670, -28.1430

Conversions

Conversions Part 2

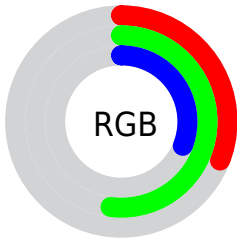
Format	Color
RYB	78, 131, 133
Decimal	5145936
CIELab	50.66, -29.85, 23.01
CIElCh	51, 37.689, 142.366
Yxy	18.9739, 0.3052, 0.4462
Android (android.graphics.Color)	4283336016 (0xFF4E8550)
YUV	110.5130, -15.0429, -28.5139
Hunter-Lab	43.5590, -23.0484, 16.1071

Details

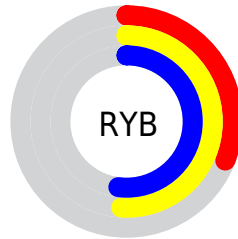
The XYZ color **12.9774, 18.9739, 10.5678** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **16.4946, 12.0744, 22.9347**, and the grayscale version is **15.0143, 15.7962, 17.2020**.

A 20% lighter version of the original color is **31.0055, 41.8982, 27.5721**, and **3.8340, 6.5350, 2.5727** is the 20% darker color. If you saturate the color by 10%, you get **11.5668, 18.2968, 8.2614**, and if you desaturate by 10%, it is **14.6998, 19.8023, 13.3612**.

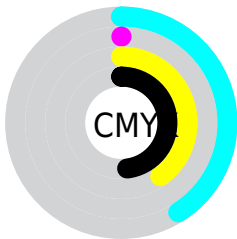
Distribution



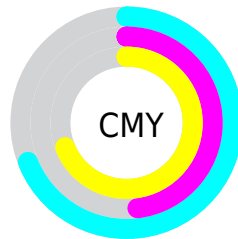
- Red (31%)
- Green (52%)
- Blue (31%)



- Red (31%)
- Yellow (51%)
- Blue (52%)



- Cyan (41%)
- Magenta (0%)
- Yellow (40%)
- Black (48%)



- Cyan (69%)
- Magenta (48%)
- Yellow (69%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9774, 18.9739, 10.5678 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 12.9774, 18.9739, 10.5678 by changing the saturation by 10% instead.

■ 12.9774, 18.9739,
10.5678

■ 12.9774, 18.9739,
10.5678

204.4133,
246.3046, 205.3077

■ 7.4899, 11.6514,
5.6665

■ 30.8648, 41.6900,
27.4825

■ 3.8193, 6.5068,
2.5779

■ 43.9955, 57.8524,
40.3329

■ 1.6004, 3.1556,
0.8810

■ 60.4045, 77.7302,
56.6702

■ 0.3927, 1.2135,
0.0000

■ 80.4573, 101.7079,
76.9129

■ 0.0000, 0.0727,
0.0000

■ 104.5192,
130.1698, 101.4794

■ 0.0000, 0.0000,
0.0000

132.9556,

163.5002, 130.7884

166.1319,
202.0837, 165.2583

■ 12.9774, 18.9739,
10.5678

■ 12.9774, 18.9739,
10.5678

■ 11.5668, 18.2968,
8.2614

■ 14.6998, 19.8023,
13.3612

■ 10.4479, 17.7598,
6.4129

■ 16.7494, 20.7879,
16.6660

■ 9.6009, 17.3537,
4.9923

■ 19.1427, 21.9392,
20.5062

■ 9.0024, 17.0673,
3.9652

■ 21.8942, 23.2632,
24.9043

■ 8.6255, 16.8875,
3.2921

■ 25.0179, 24.7666,
29.8811

■ 8.4144, 16.7863,
2.9355

■ 28.5270, 26.4558,
35.4568

■ 32.4338, 28.3368,
41.6502

■ 36.7505, 30.4155,
48.4795

■ 41.4884, 32.6972,
55.9621

Harmonies

Analogous

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



15.4661, 18.9739, 6.9872



12.9774, 18.9739, 10.5678



11.8749, 18.9739, 18.0753

Triad

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



12.9774, 18.9739, 10.5678



17.1077, 18.9739, 48.0621



25.4256, 18.9739, 13.8500

Complementary

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



12.9774, 18.9739, 10.5678



16.4946, 12.0744, 22.9347

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.



26.0225, 18.9739, 23.4787



12.9774, 18.9739, 10.5678



20.8718, 18.9739, 45.7324

Square

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



12.9774, 18.9739, 10.5678



14.0384, 18.9739, 41.2979



24.2586, 18.9739, 35.7214



22.7240, 18.9739, 8.3815

Rectangle

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



12.9774, 18.9739, 10.5678



11.9521, 18.9739, 25.3251



24.2586, 18.9739, 35.7214



25.8927, 18.9739, 16.6050

Sweetspot

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



12.9779, 18.9747, 10.5682



33.8590, 39.0849, 36.0478



19.1493, 22.1646, 10.4769



7.5216, 8.7542, 7.9505



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.9779, 18.9747, 10.5682



20.7621, 32.7883, 14.8747



14.2014, 19.4641, 17.0110



4.6227, 5.2073, 5.0241



8.0152, 15.9889, 2.7996



0.0282, 0.0556, 0.0119

Inverse Universe

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



16.4946, 12.0744, 22.9347



27.9852, 18.6094, 40.2696



14.8796, 11.4284, 14.4303



4.8508, 4.7600, 5.8265



12.9357, 6.2386, 20.0317



0.0454, 0.0218, 0.0724

Previews

White Background



This preview shows how the XYZ color 12.9774, 18.9739, 10.5678 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 12.9774, 18.9739, 10.5678 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 12.9774, 18.9739, 10.5678

Background



This preview shows how black text looks on a background with the XYZ color 12.9774, 18.9739, 10.5678.



This preview shows how white text looks on a background with the XYZ color 12.9774, 18.9739,

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

12.9774, 18.9739, 10.5678

Protanopia

17.3465, 18.7662, 9.3646

Deuteranopia

19.0587, 18.7412, 11.0004



Tritanopia

16.0246, 18.8231, 26.0812

Trichromacy



Original Color

12.9774, 18.9739, 10.5678

Protanomaly

15.3553, 18.6478, 9.8113

Deuteranomaly

16.1286, 18.4655, 10.8978

Tritanomaly

14.7490, 18.8928, 19.3923

Monochromacy



Original Color

12.9774, 18.9739, 10.5678

Achromatopsia

15.1092, 15.8961, 17.3108

Achromatomaly

14.0427, 16.7664, 14.5527

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9774, 18.9739, 10.5678 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(78, 133, 80)` looks like.

```
.text, #text, p{  
    color:rgb(78, 133, 80)  
}
```

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(78, 133, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 133, 80) }
```

Border

The CSS property to change the border of an element to XYZ 12.9774, 18.9739, 10.5678 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(78, 133, 80) }
```


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

```
.border{ border-color:rgb(78, 133, 80) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 133, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 133, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 133, 80);  
box-shadow:4px 4px 4px 4px rgb(78, 133,  
80) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9774, 18.9739, 10.5678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 133, 80) }
```

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

```
.background{ background-color: rgb(78, 133,  
80) }
```

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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