

Converting Colors

XYZ(12.9783, 18.8086, 10.4287)

Have a look what the booklet for
XYZ(12.9783, 18.8086, 10.4287)
contains.

XYZ(12.9708, 18.7725, 10.3370)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.9708, 18.7725,
10.3370)**

Conversions

Conversions Part 1

Format	Color
Hex	50844F
RGB	80, 132, 79
RGB Percent	31%, 52%, 31%
CMY	0.6863, 0.4823, 0.6902
CMYK	0.39, 0.00, 0.40, 0.48
HSL	119°, 25%, 41%
HSV	119°, 40%, 52%
XYZ	12.9708, 18.7725, 10.3370
YIQ	110.4100, -13.9790, -27.5070

Conversions

Conversions Part 2

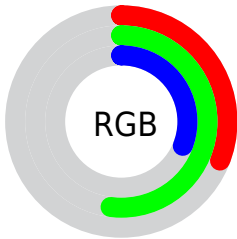
Format	Color
RYB	79, 132, 131
Decimal	5276751
CIELab	50.42, -28.87, 23.28
CIElCh	50, 37.087, 141.120
Yxy	18.7725, 0.3082, 0.4461
Android (android.graphics.Color)	4283466831 (0xFF50844F)
YUV	110.4100, -15.4851, -26.6696
Hunter-Lab	43.3272, -22.3854, 16.1837

Details

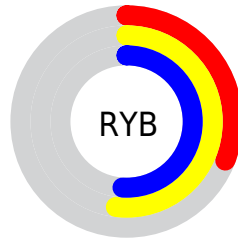
The XYZ color **12.9708, 18.7725, 10.3370** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **16.3219, 12.0839, 23.3029**, and the grayscale version is **14.9854, 15.7658, 17.1689**.

A 20% lighter version of the original color is **30.8271, 41.1884, 27.0943**, and **3.8272, 6.4204, 2.4764** is the 20% darker color. If you saturate the color by 10%, you get **11.5472, 18.0893, 8.0066**, and if you desaturate by 10%, it is **14.7016, 19.6042, 13.1807**.

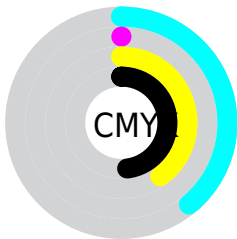
Distribution



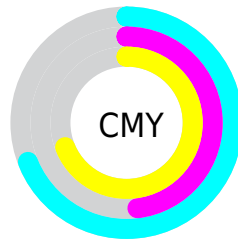
- Red (31%)
- Green (52%)
- Blue (31%)



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



- Cyan (39%)
- Magenta (0%)
- Yellow (40%)
- Black (48%)



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

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9708, 18.7725, 10.3370 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 12.9708, 18.7725, 10.3370 by changing the saturation by 10% instead.

■ 12.9708, 18.7725,
10.3370

■ 12.9708, 18.7725,
10.3370

204.3718,
245.1899, 203.6321

■ 7.4853, 11.5060,
5.5145

■ 30.8531, 41.3493,
27.0451

■ 3.8164, 6.4083,
2.4882

■ 43.9806, 57.4284,
39.7678

■ 1.5988, 3.0949,
0.8339

■ 60.3861, 77.2139,
55.9609

■ 0.3916, 1.1815,
0.0000

■ 80.4350, 101.0901,
76.0430

■ 0.0000, 0.0465,
0.0000

■ 104.4927,
129.4414, 100.4326

■ 0.0000, 0.0000,
0.0000

132.9245,

162.6522, 129.5483

166.0958,
201.1069, 163.8086

■ 12.9708, 18.7725,
10.3370

■ 12.9708, 18.7725,
10.3370

■ 11.5472, 18.0893,
8.0066

■ 14.7016, 19.6042,
13.1807

■ 10.4116, 17.5436,
6.1578

■ 16.7546, 20.5897,
16.5644

■ 9.5448, 17.1268,
4.7572


■ 19.1454, 21.7373,
20.5145


■ 8.9246, 16.8284,
3.7669


■ 21.8885, 23.0538,
25.0553


■ 8.5253, 16.6359,
3.1425


■ 24.9972, 24.5455,
30.2096

 8.2828, 16.5193,
2.7520

 28.4842, 26.2186,
35.9990

 32.3617, 28.0789,
42.4442

 36.6413, 30.1319,
49.5648

 41.3341, 32.3830,
57.3797

Harmonies

Analogous

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



15.4590, 18.7725, 6.9480



12.9708, 18.7725, 10.3370



11.8311, 18.7725, 17.5251

Triad

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



12.9708, 18.7725, 10.3370



16.7935, 18.7725, 47.0087



25.1242, 18.7725, 14.0871

Complementary

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



12.9708, 18.7725, 10.3370



16.3219, 12.0839, 23.3029

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.



25.6080, 18.7725, 23.6615



12.9708, 18.7725, 10.3370



20.4596, 18.7725, 45.1250

Square

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



12.9708, 18.7725, 10.3370



13.8345, 18.7725, 40.1243



23.8033, 18.7725, 35.6111



22.5587, 18.7725, 8.5506

Rectangle

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



12.9708, 18.7725, 10.3370



11.8669, 18.7725, 24.5142



23.8033, 18.7725, 35.6111



25.5482, 18.7725, 16.8443

Sweetspot

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



12.9713, 18.7733, 10.3374



32.7809, 37.8363, 34.5767



18.9416, 21.4984, 10.5487



7.5243, 8.7574, 7.8720



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.



12.9713, 18.7733, 10.3374



20.5853, 31.9809, 14.5044



13.9615, 19.1597, 15.9887



4.6238, 5.2086, 4.9910



8.0200, 15.9944, 2.6645



0.0283, 0.0557, 0.0093

Inverse Universe

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



16.3219, 12.0839, 23.3029



27.3233, 18.5218, 40.5881



14.9803, 11.5652, 15.4270



4.8494, 4.7585, 5.8636



12.8746, 6.1713, 21.6493



0.0453, 0.0217, 0.0750

Previews

White Background



This preview shows how the XYZ color 12.9708, 18.7725, 10.3370 looks on a white background.

Color Contrast Check

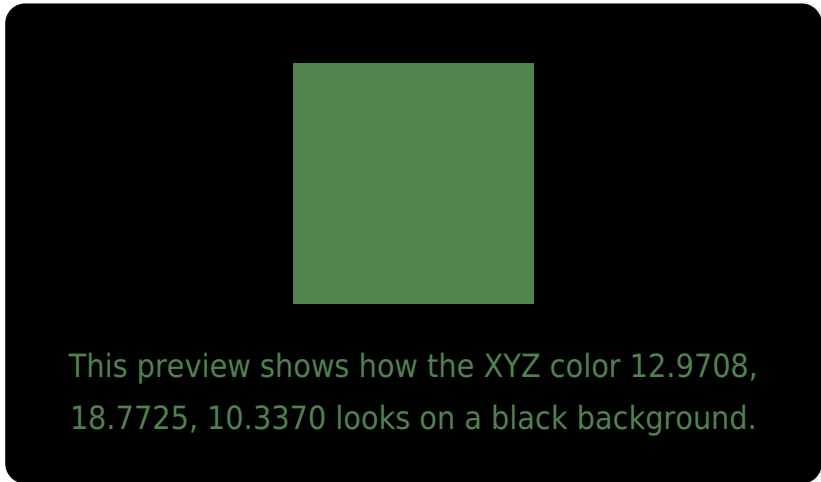
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9708, 18.7725, 10.3370

Background



This preview shows how black text looks on a background with the XYZ color 12.9708, 18.7725, 10.3370.



This preview shows how white text looks on a background with the XYZ color 12.9708, 18.7725,

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

12.9708, 18.7725, 10.3370

Protanopia

17.0388, 18.4339, 9.1386

Deuteranopia

18.7340, 18.4099, 10.7497



Tritanopia

16.0212, 18.6406, 25.6753

Trichromacy



Original Color

12.9708, 18.7725, 10.3370

Protanomaly

15.1942, 18.3819, 9.5847

Deuteranomaly

15.9681, 18.2059, 10.6551

Tritanomaly

14.7442, 18.7024, 19.0525

Monochromacy



Original Color

12.9708, 18.7725, 10.3370

Achromatopsia

14.8208, 15.5926, 16.9804

Achromatomaly

13.8762, 16.5104, 14.2598

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9708, 18.7725, 10.3370 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(80, 132, 79)` looks like.

```
.text, #text, p{  
    color:rgb(80, 132, 79)  
}
```

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(80, 132, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 132, 79) }
```

Border

The CSS property to change the border of an element to XYZ 12.9708, 18.7725, 10.3370 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(80, 132, 79) }
```


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

```
.border{ border-color:rgb(80, 132, 79) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 132, 79)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 132, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 132, 79);  
box-shadow:4px 4px 4px 4px rgb(80, 132,  
79) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9708, 18.7725, 10.3370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 132, 79) }
```

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

```
.background{ background-color: rgb(80, 132,  
79) }
```

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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