

Converting Colors

XYZ(12.1896, 16.6741, 8.3535)

Have a look what the booklet for
XYZ(12.1896, 16.6741, 8.3535)
contains.

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Color

**XYZ(12.2130, 16.6828,
8.3708)**

Conversions

Conversions Part 1

Format	Color
Hex	587B46
RGB	88, 123, 70
RGB Percent	35%, 48%, 27%
CMY	0.6549, 0.5176, 0.7255
CMYK	0.28, 0.00, 0.43, 0.52
HSL	100°, 27%, 38%
HSV	100°, 43%, 48%
XYZ	12.2130, 16.6828, 8.3708
YIQ	106.4930, -3.8470, -23.9030

Conversions

Conversions Part 2

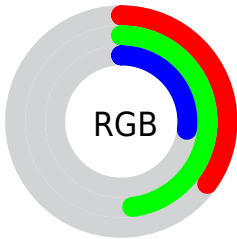
Format	Color
RYB	70, 123, 105
Decimal	5798726
CIELab	47.86, -22.94, 25.06
CIELCh	48, 33.974, 132.475
Yxy	16.6828, 0.3277, 0.4477
Android (android.graphics.Color)	4283988806 (0xFF587B46)
YUV	106.4930, -17.9910, -16.2184
Hunter-Lab	40.8446, -18.1045, 16.4402

Details

The XYZ color **12.2130, 16.6828, 8.3708** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **11.5917, 8.8141, 19.8301**, and the grayscale version is **13.8842, 14.6073, 15.9073**.

A 20% lighter version of the original color is **29.5026, 37.8715, 23.2078**, and **3.4993, 5.4189, 1.7812** is the 20% darker color. If you saturate the color by 10%, you get **11.1374, 16.1692, 6.4972**, and if you desaturate by 10%, it is **13.4547, 17.2739, 10.6681**.

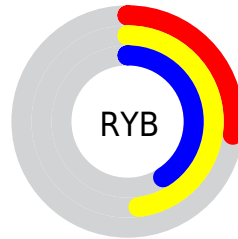
Distribution



Red (35%)

Green (48%)

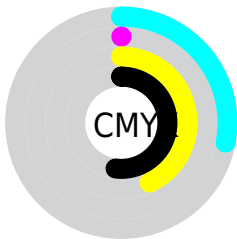
Blue (27%)



Red (27%)

Yellow (48%)

Blue (41%)

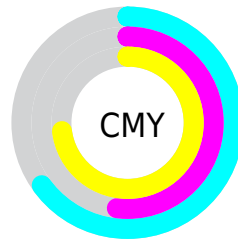


Cyan (28%)

Magenta (0%)

Yellow (43%)

Black (52%)



Cyan (65%)


Magenta (52%)


Yellow (73%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.2130, 16.6828, 8.3708 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 12.2130, 16.6828, 8.3708 by changing the saturation by 10% instead.


 12.2130, 16.6828,
8.3708

 12.2130, 16.6828,
8.3708


199.5516,
233.3378, 188.6540


 6.9621, 10.0086,
4.2420


 29.4960, 37.7796,
23.2403


 3.4846, 5.4047,
1.7590

 42.2588, 52.9710,
34.8180


 1.4149, 2.4866,
0.4007

 58.2563, 71.7702,
49.7157

 0.2668, 0.8699,
0.0000

 77.8538, 94.5616,
68.3521

 0.0000, 0.0000,
0.0000

 101.4168,
121.7297, 91.1455

129.3105,

153.6589, 118.5146

161.9003,
190.7334, 150.8780

■ 12.2130, 16.6828,
8.3708

■ 12.2130, 16.6828,
8.3708

■ 11.1374, 16.1692,
6.4972

■ 13.4547, 17.2739,
10.6681

■ 10.2189, 15.7274,
5.0204

■ 14.8684, 17.9434,
13.4117

■ 9.4497, 15.3546,
3.9120


■ 16.4613, 18.6951,
16.6240


■ 8.8204, 15.0466,
3.1392


■ 18.2395, 19.5318,
20.3253


■ 8.3200, 14.7987,
2.6620


■ 20.2093, 20.4560,
24.5352

 8.0288, 14.6540,
2.4053

 22.3761, 21.4705,
29.2717

 24.7456, 22.5776,
34.5521

 27.3229, 23.7796,
40.3932

 30.1132, 25.0789,
46.8106

Harmonies

Analogous

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



14.6217, 16.6828, 6.1962



12.2130, 16.6828, 8.3708



10.8907, 16.6828, 13.5572

Triad

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



12.2130, 16.6828, 8.3708



14.1534, 16.6828, 39.3805



22.3079, 16.6828, 14.7692

Complementary

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



12.2130, 16.6828, 8.3708



11.5917, 8.8141, 19.8301

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.



22.1402, 16.6828, 23.7133



12.2130, 16.6828, 8.3708



17.1589, 16.6828, 40.0264

Square

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



12.2130, 16.6828, 8.3708



11.9082, 16.6828, 32.0498



20.1609, 16.6828, 33.6041



20.5933, 16.6828, 9.0116

Rectangle

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



12.2130, 16.6828, 8.3708



10.6842, 16.6828, 18.9006



20.1609, 16.6828, 33.6041



22.4755, 16.6828, 17.4483

Sweetspot

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



12.2134, 16.6835, 8.3712



29.4073, 33.4440, 29.6258



14.2702, 14.6453, 7.8693



6.7933, 7.8141, 6.7065



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.2134, 16.6835, 8.3712



19.9098, 28.9375, 11.5781



10.9826, 16.0181, 9.7116



4.0673, 4.5100, 4.2806



8.3000, 15.1560, 2.4879



38.7651, 71.8696, 11.8291

Inverse Universe

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



11.5917, 8.8141, 19.8301



18.6235, 12.8125, 35.0481



13.4565, 9.8307, 17.4237



4.0285, 4.0126, 5.0054



7.2232, 3.2965, 19.6409



33.5187, 15.2415, 93.6451

Previews

White Background



This preview shows how the XYZ color 12.2130, 16.6828, 8.3708 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 12.2130, 16.6828, 8.3708 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 12.2130, 16.6828, 8.3708

Background



This preview shows how black text looks on a background with the XYZ color 12.2130, 16.6828, 8.3708.



This preview shows how white text looks on a background with the XYZ color 12.2130, 16.6828,

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

12.2130, 16.6828, 8.3708

Protanopia

15.2007, 16.4887, 7.5357

Deuteranopia

16.7185, 16.4404, 8.5955



Tritanopia

15.0570, 16.7703, 22.1821

Trichromacy



Original Color

12.2130, 16.6828, 8.3708

Protanomaly

13.9300, 16.5073, 7.7622

Deuteranomaly

14.6826, 16.2001, 8.4840

Tritanomaly

13.8144, 16.6139, 16.1144

Monochromacy



Original Color

12.2130, 16.6828, 8.3708

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.9155, 15.0313, 12.5765

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2130, 16.6828, 8.3708 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(88, 123, 70)` looks like.

```
.text, #text, p{  
    color:rgb(88, 123, 70)  
}
```

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(88, 123, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 123, 70) }
```

Border

The CSS property to change the border of an element to XYZ 12.2130, 16.6828, 8.3708 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(88, 123, 70) }
```


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

```
.border{ border-color:rgb(88, 123, 70) }
```

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

Here you see how a box with a 4 pixel rgb(88, 123, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 123, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 123, 70);  
box-shadow:4px 4px 4px 4px rgb(88, 123,  
70) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2130, 16.6828, 8.3708 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 123, 70) }
```

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

```
.background{ background-color: rgb(88, 123,  
70) }
```

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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