

Converting Colors

XYZ(12.7469, 17.9043, 4.1416)

Have a look what the booklet for
XYZ(12.7469, 17.9043, 4.1416)
contains.

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Color

**XYZ(12.8038, 18.0294,
4.1717)**

Conversions

Conversions Part 1

Format	Color
Hex	608020
RGB	96, 128, 32
RGB Percent	38%, 50%, 13%
CMY	0.6235, 0.4980, 0.8745
CMYK	0.25, 0.00, 0.75, 0.50
HSL	80°, 60%, 31%
HSV	80°, 75%, 50%
XYZ	12.8038, 18.0294, 4.1717
YIQ	107.4880, 11.7440, -36.6400

Conversions

Conversions Part 2

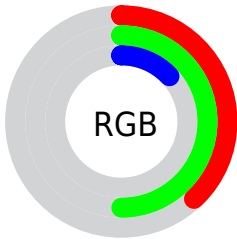
Format	Color
RYB	32, 128, 64
Decimal	6324256
CIELab	49.53, -26.15, 45.56
CIELCh	50, 52.534, 119.855
Yxy	18.0294, 0.3658, 0.5151
Android (android.graphics.Color)	4284514336 (0xFF608020)
YUV	107.4880, -37.2156, -10.0750
Hunter-Lab	42.4610, -20.4815, 23.8976

Details

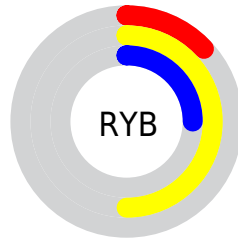
The XYZ color **12.8038, 18.0294, 4.1717** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **6.5278, 3.6820, 20.7897**, and the grayscale version is **14.2095, 14.9495, 16.2800**.

A 20% lighter version of the original color is **30.4796, 40.0618, 14.3099**, and **3.8782, 6.1499, 0.9826** is the 20% darker color. If you saturate the color by 10%, you get **12.2259, 17.7484, 3.4067**, and if you desaturate by 10%, it is **13.4746, 18.3516, 5.2949**.

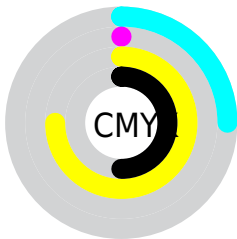
Distribution



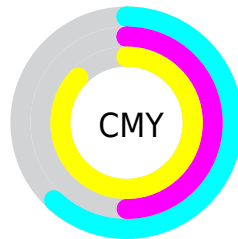
- Red (38%)
- Green (50%)
- Blue (13%)



- Red (13%)
- Yellow (50%)
- Blue (25%)



- Cyan (25%)
- Magenta (0%)
- Yellow (75%)
- Black (50%)



- Cyan (62%)
- Magenta (50%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8038, 18.0294, 4.1717 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 12.8038, 18.0294, 4.1717 by changing the saturation by 10% instead.

■ 12.8038, 18.0294,
4.1717

■ 12.8038, 18.0294,
4.1717

203.3195,
241.0367, 150.1151

■ 7.3696, 10.9711,
1.7200

■ 30.5552, 40.0874,
14.4039

■ 3.7427, 6.0474,
0.3744

■ 43.6031, 55.8559,
23.0214

■ 1.5576, 2.8739,
0.0000

■ 59.9197, 75.2966,
34.5313

■ 0.3646, 1.0663,
0.0000

■ 79.8702, 98.7939,
49.3521

■ 0.0000, 0.0000,
0.0000

■ 103.8201,
126.7321, 67.9023

■ 132.1348,

159.4958, 90.6006

165.1794,
197.4692, 117.8653

■ 12.8038, 18.0294,
4.1717

■ 12.8038, 18.0294,
4.1717

■ 12.2259, 17.7484,
3.4067

■ 13.4746, 18.3516,
5.2949

■ 11.7288, 17.5019,
2.9439

■ 14.2444, 18.7157,
6.8121

■ 11.4960, 17.3859,
2.7499

■ 15.1202, 19.1251,
8.7561

■ 16.1077, 19.5821,
11.1559

■ 17.2124, 20.0889,
14.0379

■ 18.4393, 20.6477,
17.4267

■ 19.7931, 21.2602,
21.3449

■ 21.2780, 21.9283,
25.8141

■ 22.8983, 22.6538,
30.8544

Harmonies

Analogous

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



17.1606, 18.0294, 3.0068



12.8038, 18.0294, 4.1717



10.1267, 18.0294, 8.8406

Triad

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



12.8038, 18.0294, 4.1717



12.7693, 18.0294, 54.1074



28.5861, 18.0294, 19.7003

Complementary

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



12.8038, 18.0294, 4.1717



6.5278, 3.6820, 20.7897

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.



26.8056, 18.0294, 36.8430



12.8038, 18.0294, 4.1717



17.1122, 18.0294, 61.7186

Square

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



12.8038, 18.0294, 4.1717



10.1097, 18.0294, 36.6608



22.3503, 18.0294, 54.2436



26.8382, 18.0294, 8.9113

Rectangle

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



12.8038, 18.0294, 4.1717



9.3425, 18.0294, 15.1920



22.3503, 18.0294, 54.2436



28.3764, 18.0294, 24.8599

Sweetspot

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



12.8042, 18.0302, 4.1721



30.8215, 35.6045, 26.1162



10.9969, 8.3609, 2.4010



7.1079, 8.2866, 5.8214



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.8042, 18.0302, 4.1721



20.8939, 30.9352, 5.3829



9.1994, 16.1718, 4.0034



4.5304, 4.9499, 4.6368



11.4001, 17.2394, 2.7267



0.0000, 0.0000, 0.0000

Inverse Universe

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



6.5278, 3.6820, 20.7897



9.3212, 4.3007, 36.2951



11.0955, 6.0367, 21.0035



4.2335, 4.2760, 5.4155



4.8390, 2.0483, 20.3903



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8038, 18.0294, 4.1717 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 12.8038, 18.0294, 4.1717 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 12.8038, 18.0294, 4.1717

Background



This preview shows how black text looks on a background with the XYZ color 12.8038, 18.0294, 4.1717.



This preview shows how white text looks on a background with the XYZ color 12.8038, 18.0294,

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

12.8038, 18.0294, 4.1717

Protanopia

16.2159, 17.9511, 3.7726

Deuteranopia

18.1930, 17.9379, 4.4229



Tritanopia

16.6227, 17.9044, 23.3487

Trichromacy



Original Color

12.8038, 18.0294, 4.1717

Protanomaly

14.8016, 17.9347, 3.9099

Deuteranomaly

15.6990, 17.6734, 4.2530

Tritanomaly

14.5734, 17.6108, 13.2208

Monochromacy



Original Color

12.8038, 18.0294, 4.1717

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.1722, 15.7242, 9.9302

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8038, 18.0294, 4.1717 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(96, 128, 32)` looks like.

```
.text, #text, p{  
    color:rgb(96, 128, 32)  
}
```

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(96, 128, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 128, 32) }
```

Border

The CSS property to change the border of an element to XYZ 12.8038, 18.0294, 4.1717 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(96, 128, 32) }
```


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

```
.border{ border-color:rgb(96, 128, 32) }
```

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

Here you see how a box with a 4 pixel `rgb(96, 128, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 128, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 128, 32);  
box-shadow:4px 4px 4px 4px rgb(96, 128,  
32) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8038, 18.0294, 4.1717 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 128, 32) }
```

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

```
.background{ background-color: rgb(96, 128,  
32) }
```

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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