

Converting Colors

XYZ(2.3322, 1.1948, 0.4493)

Have a look what the booklet for
XYZ(2.3322, 1.1948, 0.4493)
contains.

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Color

XYZ(2.3131, 1.1848, 0.4546)

Conversions

Conversions Part 1

Format	Color
Hex	42000C
RGB	66, 0, 12
RGB Percent	26%, 0%, 5%
CMY	0.7412, 1.0000, 0.9529
CMYK	0.00, 1.00, 0.82, 0.74
HSL	349°, 100%, 13%
HSV	349°, 100%, 26%
XYZ	2.3131, 1.1848, 0.4546
YIQ	21.1020, 35.4840, 17.7240

Conversions

Conversions Part 2

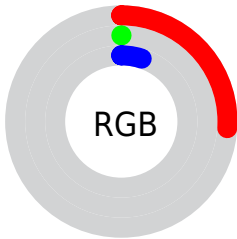
Format	Color
RYB	66, 0, 12
Decimal	4325388
CIELab	10.44, 30.91, 11.51
CIElCh	10, 32.982, 20.417
Yxy	1.1848, 0.5852, 0.2998
Android (android.graphics.Color)	4282515468 (0xFF42000C)
YUV	21.1020, -4.4873, 39.3755
Hunter-Lab	10.8849, 18.8839, 5.1432

Details

The XYZ color **2.3131, 1.1848, 0.4546** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **2.6142, 4.1627, 4.1562**, and the grayscale version is **0.7188, 0.7562, 0.8235**.

A 20% lighter version of the original color is **9.3957, 6.3944, 4.3535**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **2.3130, 1.1848, 0.4545**, and if you desaturate by 10%, it is **2.4227, 1.3433, 0.6785**.

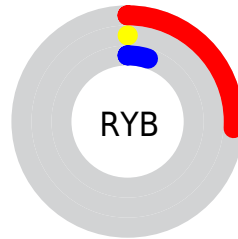
Distribution



Red (26%)

Green (0%)

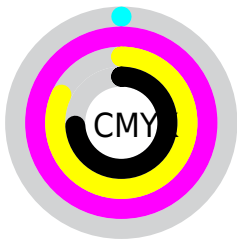
Blue (5%)



Red (26%)

Yellow (0%)

Blue (5%)

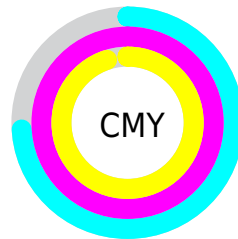


Cyan (0%)

Magenta (100%)

Yellow (82%)

Black (74%)



Cyan (74%)


Magenta (100%)


Yellow (95%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 2.3131, 1.1848, 0.4546 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 2.3131, 1.1848, 0.4546 by changing the saturation by 10% instead.

 2.3131, 1.1848,
0.4546


 2.3131, 1.1848,
0.4546

 115.0234,
101.1547, 92.2684

 0.8014, 0.0492,
0.0000


 9.3852, 6.4185,
4.3883

 0.0000, 0.0000,
0.0000

 15.6769, 11.5212,
8.6005


 24.2928, 18.7935,
14.8959


 35.5983, 28.6200,
23.6929


 49.9588, 41.3849,
35.4101


 67.7395, 57.4727,


50.4661


 89.3060, 77.2679,
69.2793


 2.3131, 1.1848,
0.4546


 2.3131, 1.1848,
0.4546


 2.3130, 1.1848,
0.4545

 2.4227, 1.3433,
0.6785

 2.5459, 1.5124,
0.9579

 2.7055, 1.7365,
1.3038

 2.9081, 2.0283,
1.7216

 3.1569, 2.3927,
2.2150

■ 3.4545, 2.8342,
2.7877

■ 3.8032, 3.3568,
3.4428

■ 4.2054, 3.9644,
4.1835

■ 4.6632, 4.6605,
5.0128

Harmonies

Analogous

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



2.3912, 1.1848, 1.8145



2.3131, 1.1848, 0.4546



1.8709, 1.1848, 0.0000

Triad

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



2.3131, 1.1848, 0.4546



0.4785, 1.1848, 0.0000



0.9711, 1.1848, 6.4877

Complementary

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



2.3131, 1.1848, 0.4546



2.6142, 4.1627, 4.1562

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.



0.5860, 1.1848, 4.8741



2.3131, 1.1848, 0.4546



0.3051, 1.1848, 0.8752

Square

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



2.3131, 1.1848, 0.4546



0.8182, 1.1848, 0.0000



0.3445, 1.1848, 2.5339



1.5027, 1.1848, 6.0943

Rectangle

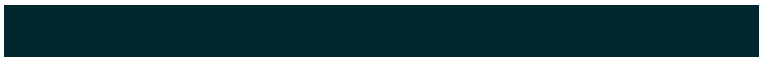
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



2.3131, 1.1848, 0.4546



1.4865, 1.1848, 0.0000



0.3445, 1.1848, 2.5339



0.8292, 1.1848, 6.1336

Sweetspot

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



2.3131, 1.1849, 0.4546



6.5210, 5.7028, 5.8217



2.4994, 1.1750, 5.2492



1.6620, 1.4363, 1.4572



38.6329, 40.6448, 44.2622



2.3302, 2.4515, 2.6697

Same Dimension

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



2.3131, 1.1849, 0.4546



3.9943, 2.0485, 0.6657



2.5131, 1.6910, 0.1941



1.3321, 1.3420, 1.4466



5.0252, 2.5783, 0.7886



31.2611, 16.0699, 3.5325

Inverse Universe

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



2.3131, 1.1849, 0.4546



3.9943, 2.0485, 0.6657



1.9257, 2.2779, 5.4923



1.3321, 1.3420, 1.4466



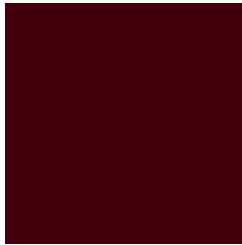
5.0252, 2.5783, 0.7886



31.2611, 16.0699, 3.5325

Previews

White Background



This preview shows how the XYZ color 2.3131, 1.1848, 0.4546 looks on a white background.

Color Contrast Check

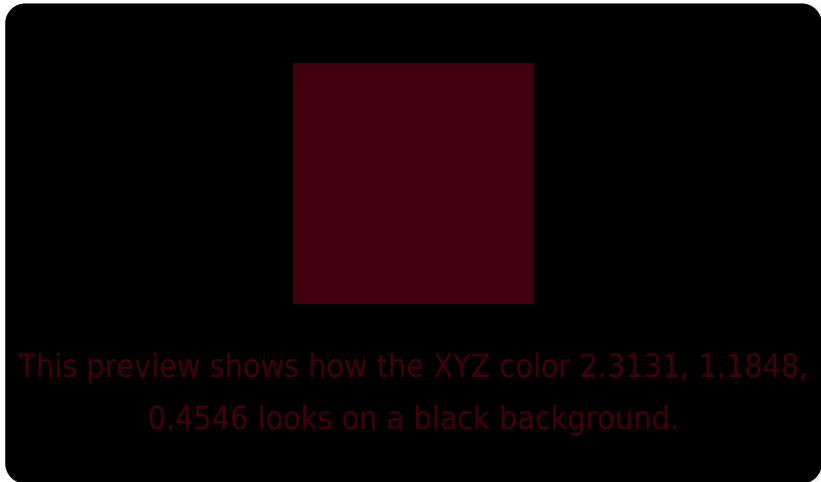
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 2.3131, 1.1848, 0.4546

Background



This preview shows how black text looks on a background with the XYZ color 2.3131, 1.1848, 0.4546.

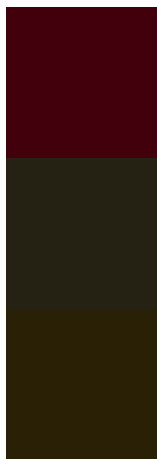


This preview shows how white text looks on a background with the XYZ color 2.3131, 1.1848, 0.4546.

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

2.3131, 1.1848, 0.4546

Protanopia

1.4243, 1.5280, 0.8360

Deuteranopia

1.5042, 1.5384, 0.3900



Tritanopia

2.3119, 1.2885, 0.1269

Trichromacy



Original Color

2.3131, 1.1848, 0.4546

Protanomaly

1.5806, 1.2021, 0.6389

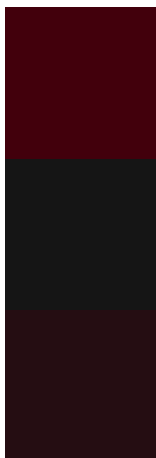
Deuteranomaly

1.6592, 1.2217, 0.3781

Tritanomaly

2.3121, 1.2538, 0.2350

Monochromacy



Original Color

2.3131, 1.1848, 0.4546

Achromatopsia

0.7128, 0.7499, 0.8166

Achromatomaly

1.0161, 0.7248, 0.6586

CSS Examples

Text

The CSS property to change the color of the text to XYZ 2.3131, 1.1848, 0.4546 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(66, 0, 12)` looks like.

```
.text, #text, p{  
    color:rgb(66, 0, 12)  
}
```

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(66, 0, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 0, 12) }
```

Border

The CSS property to change the border of an element to XYZ 2.3131, 1.1848, 0.4546 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(66, 0, 12) }
```

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

```
.border{ border-color:rgb(66, 0, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 0, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 0, 12); -webkit-box-shadow:4px  
4px 4px 4px rgb(66, 0, 12); box-shadow:4px  
4px 4px 4px rgb(66, 0, 12) }
```


Background

The CSS property to change the background color of an element to XYZ 2.3131, 1.1848, 0.4546 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 0, 12) }
```

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

```
.background{ background-color: rgb(66, 0,  
12) }
```

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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