

Converting Colors

XYZ(38.5905, 19.8815, 2.3757)

Have a look what the booklet for
XYZ(38.5905, 19.8815, 2.3757)
contains.

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Color

**XYZ(38.4670, 19.8178,
2.3701)**

Conversions

Conversions Part 1

Format	Color
Hex	F70012
RGB	247, 0, 18
RGB Percent	97%, 0%, 7%
CMY	0.0314, 0.9998, 0.9294
CMYK	0.00, 1.00, 0.93, 0.03
HSL	356°, 100%, 48%
HSV	356°, 100%, 97%
XYZ	38.4670, 19.8178, 2.3701
YIQ	75.9050, 141.4340, 57.9620

Conversions

Conversions Part 2

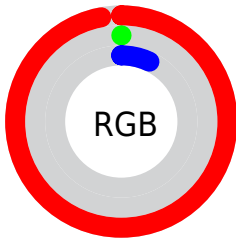
Format	Color
R_{YB}	247, 0, 18
Decimal	16187410
CIE Lab	51.63, 78.33, 60.76
CIE LCh	52, 99.137, 37.800
Yxy	19.8178, 0.6342, 0.3267
Android (android.graphics.Color)	4294377490 (0xFF70012)
YUV	75.9050, -28.5472, 150.0503
Hunter-Lab	44.5172, 76.3356, 28.0054

Details

The XYZ color **38.4670, 19.8178, 2.3701** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **47.4126, 72.1820, 85.6065**, and the grayscale version is **6.8909, 7.2498, 7.8950**.

A 20% lighter version of the original color is **46.3756, 29.8618, 8.7885**, and **18.8224, 9.7033, 0.8809** is the 20% darker color. If you saturate the color by 10%, you get **38.4663, 19.8175, 2.3676**, and if you desaturate by 10%, it is **39.0987, 20.6187, 4.0084**.

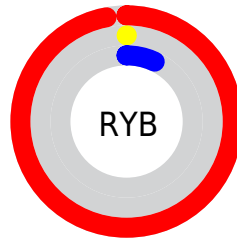
Distribution



Red (97%)

Green (0%)

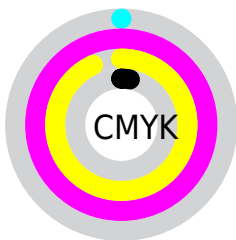
Blue (7%)



Red (97%)

Yellow (0%)

Blue (7%)

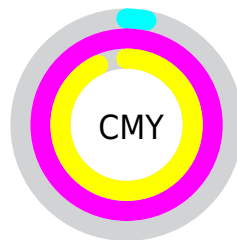


Cyan (0%)

Magenta (100%)

Yellow (93%)

Black (3%)



Cyan (3%)


Magenta (100%)


Yellow (93%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 38.4670, 19.8178, 2.3701 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 38.4670, 19.8178, 2.3701 by changing the saturation by 10% instead.


 38.4670, 19.8178,
2.3701


 38.4670, 19.8178,
2.3701


330.8654,
250.9271, 127.8822


 26.5242, 12.2627,
0.7701


 72.1227, 43.1115,
10.0300


 17.3509, 6.9228,
0.0000


 94.5662, 59.6189,
16.9396

 10.5819, 3.4139,
0.0000


 121.2408, 79.8791,
26.4605

 5.8516, 1.3514,
0.0000

 152.5116,
104.2766, 39.0112

 2.7949, 0.1805,
0.0000

 188.7442,
133.1957, 55.0101


 1.0462, 0.0000,
0.0000


 230.3037,


 0.0000, 0.0000,


167.0209, 74.8759


0.0000


 277.5557,
206.1366, 99.0271


 38.4670, 19.8178,
2.3701

 38.4670, 19.8178,
2.3701


 38.4663, 19.8175,
2.3676

 39.0987, 20.6187,
4.0084

 40.3954, 22.3776,
7.0129

 42.5260, 25.3769,
11.6136

 45.6004, 29.7893,
17.9913

 49.7117, 35.7604,
26.3028

■ 54.9417, 43.4175,
36.6871

■ 61.3641, 52.8749,
49.2709

■ 69.0462, 64.2367,
64.1704

■ 78.0504, 77.5994,
81.4937

Harmonies

Analogous

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



45.0116, 19.8178, 14.9376



38.4670, 19.8178, 2.3701



27.0704, 19.8178, 0.0000

Triad

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



38.4670, 19.8178, 2.3701



6.0577, 19.8178, 6.7477



21.5665, 19.8178, 134.9344

Complementary

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



38.4670, 19.8178, 2.3701



47.4126, 72.1820, 85.6065

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.



12.4681, 19.8178, 123.1738



38.4670, 19.8178, 2.3701



5.4911, 19.8178, 29.9426

Square

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



38.4670, 19.8178, 2.3701



9.3422, 19.8178, 0.7470



7.3663, 19.8178, 75.9423



33.2404, 19.8178, 100.8238

Rectangle

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



38.4670, 19.8178, 2.3701



19.5837, 19.8178, 0.0000



7.3663, 19.8178, 75.9423



18.1081, 19.8178, 136.5312

Sweetspot

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



38.4674, 19.8191, 2.3704



65.9178, 56.7632, 52.8611



48.2854, 22.9537, 89.8807



13.4514, 11.1798, 10.0296



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



38.4674, 19.8191, 2.3704



41.3535, 21.3054, 2.5278



43.2035, 29.4653, 3.4121



16.5480, 16.5020, 17.3662



20.3622, 10.4883, 1.3499



1.8063, 0.9285, 0.2064

Inverse Universe

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



38.4674, 19.8191, 2.3704



41.3535, 21.3054, 2.5278



26.7790, 26.6954, 91.7365



16.5480, 16.5020, 17.3662



20.3622, 10.4883, 1.3499



1.8063, 0.9285, 0.2064

Previews

White Background



This preview shows how the XYZ color 38.4670, 19.8178, 2.3701 looks on a white background.

Color Contrast Check

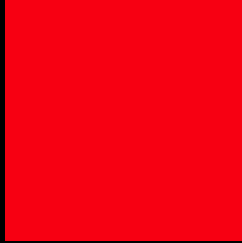
Large Text (above 18pt) WCAG AA ✓ Pass

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 38.4670, 19.8178, 2.3701 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 38.4670, 19.8178, 2.3701

Background



This preview shows how black text looks on a background with the XYZ color 38.4670, 19.8178, 2.3701.



This preview shows how white text looks on a background with the XYZ color 38.4670, 19.8178,

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

38.4670, 19.8178, 2.3701

Protanopia

18.5318, 20.3959, 4.9675

Deuteranopia

20.3831, 20.1250, 2.8102



Tritanopia

37.9626, 20.0253, 1.8644

Trichromacy



Original Color

38.4670, 19.8178, 2.3701

Protanomaly

21.7198, 15.4253, 3.1991

Deuteranomaly

23.7896, 15.9946, 2.0344

Tritanomaly

38.2152, 19.9498, 2.0375

Monochromacy



Original Color

38.4670, 19.8178, 2.3701

Achromatopsia

6.8694, 7.2272, 7.8704

Achromatomaly

12.2278, 7.7930, 4.4742

CSS Examples

Text

The CSS property to change the color of the text to XYZ 38.4670, 19.8178, 2.3701 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(247, 0, 18)` looks like.

```
.text, #text, p{  
  color:rgb(247, 0, 18)  
}
```

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(247, 0, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 0, 18) }
```

Border

The CSS property to change the border of an element to XYZ 38.4670, 19.8178, 2.3701 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(247, 0, 18) }
```


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

```
.border{ border-color:rgb(247, 0, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 0, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 0, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 0, 18);  
box-shadow:4px 4px 4px 4px rgb(247, 0, 18)  
}
```

Background

The CSS property to change the background color of an element to XYZ 38.4670, 19.8178, 2.3701 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 0, 18) }
```

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

```
.background{ background-color: rgb(247, 0,  
18) }
```

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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