

Converting Colors

$XYZ(37.7775, 19.7587, 1.8227)$

Have a look what the booklet for
XYZ(37.7775, 19.7587, 1.8227)
contains.

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Color

**XYZ(37.8415, 19.7831,
1.8240)**

Conversions

Conversions Part 1

Format	Color
Hex	F51000
RGB	245, 16, 0
RGB Percent	96%, 6%, 0%
CMY	0.0392, 0.9371, 1.0000
CMYK	0.00, 0.93, 1.00, 0.04
HSL	4°, 100%, 48%
HSV	4°, 100%, 96%
XYZ	37.8415, 19.7831, 1.8240
YIQ	82.6470, 141.6200, 43.5720

Conversions

Conversions Part 2

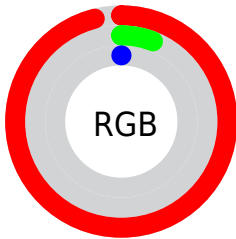
Format	Color
R_{YB}	245, 17, 0
Decimal	16060416
CIE Lab	51.59, 76.49, 65.36
CIE LCh	52, 100.612, 40.515
Yxy	19.7831, 0.6365, 0.3328
Android (android.graphics.Color)	4294250496 (0xFFFF51000)
YUV	82.6470, -40.7450, 142.3836
Hunter-Lab	44.4782, 74.0287, 28.7033

Details

The XYZ color **37.8415, 19.7831, 1.8240** 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 **44.4867, 62.6033, 96.1245**, and the grayscale version is **8.2156, 8.6434, 9.4127**.

A 20% lighter version of the original color is **46.3714, 30.3009, 7.4076**, and **18.3601, 9.4650, 0.8592** is the 20% darker color. If you saturate the color by 10%, you get **37.8419, 19.7844, 1.8243**, and if you desaturate by 10%, it is **38.5497, 20.9278, 2.8993**.

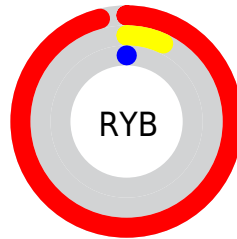
Distribution



Red (96%)

Green (6%)

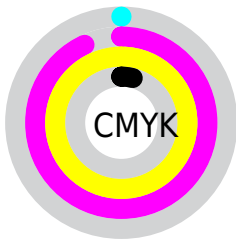
Blue (0%)



Red (96%)

Yellow (7%)

Blue (0%)

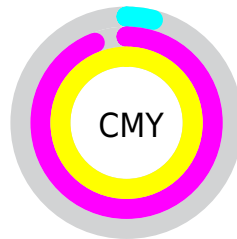


Cyan (0%)

Magenta (93%)

Yellow (100%)

Black (4%)



Cyan (4%)


Magenta (94%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 37.8415, 19.7831, 1.8240 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 37.8415, 19.7831, 1.8240 by changing the saturation by 10% instead.


 37.8415, 19.7831,
1.8240

 37.8415, 19.7831,
1.8240


 328.2322,
250.7385, 119.5811

 26.0364, 12.2375,
0.4437


 71.1706, 43.0532,
8.5538


 16.9837, 6.9056,
0.0000


 93.4253, 59.5465,
14.8285

 10.3181, 3.4031,
0.0000


 119.8938, 79.7912,
23.6010

 5.6742, 1.3457,
0.0000

 150.9416,
104.1716, 35.2900

 2.6868, 0.1761,
0.0000

 186.9340,
133.0721, 50.3140


 0.9904, 0.0000,
0.0000


 228.2363,


 0.0000, 0.0000,


166.8772, 69.0914

0.0000


 275.2139,
205.9712, 92.0410


 37.8415, 19.7831,
1.8240


 37.8415, 19.7831,
1.8240

 37.8419, 19.7844,
1.8243

 38.5497, 20.9278,
2.8993

 39.9242, 23.0619,
5.2529

 42.1028, 26.3553,
9.2586

 45.1840, 30.9413,
15.1460

 49.2523, 36.9350,
23.1083

■ 54.3823, 44.4389,
33.3148

■ 60.6413, 53.5457,
45.9173

■ 68.0912, 64.3410,
61.0544

■ 76.7893, 76.9040,
78.8540

Harmonies

Analogous

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



45.1961, 19.7831, 12.8789



37.8415, 19.7831, 1.8240



26.0784, 19.7831, 0.0000

Triad

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



37.8415, 19.7831, 1.8240



5.7684, 19.7831, 7.7756



22.5871, 19.7831, 136.1323

Complementary

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



37.8415, 19.7831, 1.8240



44.4867, 62.6033, 96.1245

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.



13.0251, 19.7831, 128.5578



37.8415, 19.7831, 1.8240



5.4171, 19.7831, 33.4102

Square

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



37.8415, 19.7831, 1.8240



8.7747, 19.7831, 0.8712



7.5413, 19.7831, 81.9138



34.5103, 19.7831, 97.8838

Rectangle

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



37.8415, 19.7831, 1.8240



18.6287, 19.7831, 0.0000



7.5413, 19.7831, 81.9138



18.9789, 19.7831, 139.3522

Sweetspot

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



37.8419, 19.7844, 1.8243



66.3654, 58.5728, 50.1910



52.3281, 25.2812, 79.0248



13.5525, 11.5889, 9.4257



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.



37.8419, 19.7844, 1.8243



41.4359, 21.6518, 1.9953



46.2850, 36.6705, 4.6386



16.5863, 16.6567, 17.1384



20.4200, 10.7256, 0.9940



1.8247, 1.0026, 0.0973

Inverse Universe

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



44.4867, 62.6033, 96.1245



48.7106, 68.5412, 105.2702



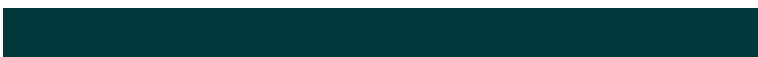
22.0842, 17.7983, 88.6570



16.8983, 18.5609, 21.2345



24.0064, 33.8065, 51.7981



2.1374, 3.0263, 4.5617

Previews

White Background



This preview shows how the XYZ color 37.8415, 19.7831, 1.8240 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 37.8415, 19.7831, 1.8240 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 37.8415, 19.7831, 1.8240

Background



This preview shows how black text looks on a background with the XYZ color 37.8415, 19.7831, 1.8240.



This preview shows how white text looks on a background with the XYZ color 37.8415, 19.7831,

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

37.8415, 19.7831, 1.8240

Protanopia

18.1024, 20.0032, 4.2032

Deuteranopia

20.1887, 20.0248, 2.8011



Tritanopia

37.5951, 19.8069, 1.8416

Trichromacy



Original Color

37.8415, 19.7831, 1.8240

Protanomaly

21.7349, 16.0125, 2.6070

Deuteranomaly

23.6815, 16.5762, 1.9514

Tritanomaly

37.5584, 19.7334, 1.8294

Monochromacy



Original Color

37.8415, 19.7831, 1.8240

Achromatopsia

8.2219, 8.6500, 9.4199

Achromatomaly

13.3619, 9.1358, 4.4273

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.8415, 19.7831, 1.8240 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(245, 16, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 16, 0)  
}
```

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(245, 16, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 16, 0) }
```

Border

The CSS property to change the border of an element to XYZ 37.8415, 19.7831, 1.8240 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(245, 16, 0) }
```


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

```
.border{ border-color:rgb(245, 16, 0) }
```

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

Here you see how a box with a 4 pixel rgb(245, 16, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 16, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 16, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 16, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 37.8415, 19.7831, 1.8240 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 16, 0) }
```

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

```
.background{ background-color: rgb(245, 16,  
0) }
```

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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