

Converting Colors

XYZ(37.7335, 19.6707, 1.8080)

Have a look what the booklet for
XYZ(37.7335, 19.6707, 1.8080)
contains.

XYZ(37.8001, 19.7003, 1.8103)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	30

Color

**XYZ(37.8001, 19.7003,
1.8103)**

Conversions

Conversions Part 1

Format	Color
Hex	F50D00
RGB	245, 13, 0
RGB Percent	96%, 5%, 0%
CMY	0.0392, 0.9488, 1.0000
CMYK	0.00, 0.95, 1.00, 0.04
HSL	3°, 100%, 48%
HSV	3°, 100%, 96%
XYZ	37.8001, 19.7003, 1.8103
YIQ	80.8860, 142.4450, 45.1410

Conversions

Conversions Part 2

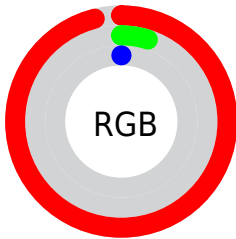
Format	Color
RYB	245, 14, 0
Decimal	16059648
CIELab	51.50, 76.76, 65.33
CIELCh	51, 100.797, 40.399
Yxy	19.7003, 0.6373, 0.3322
Android (android.graphics.Color)	4294249728 (0xFFFF50D00)
YUV	80.8860, -39.8768, 143.9280
Hunter-Lab	44.3850, 74.3441, 28.6513

Details

The XYZ color **37.8001, 19.7003, 1.8103** 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 **45.3231, 64.2761, 96.4032**, and the grayscale version is **7.8610, 8.2704, 9.0065**.

A 20% lighter version of the original color is **46.2784, 30.1149, 7.3766**, and **18.3601, 9.4650, 0.8592** is the 20% darker color. If you saturate the color by 10%, you get **37.8005, 19.7015, 1.8105**, and if you desaturate by 10%, it is **38.4645, 20.7573, 2.8711**.

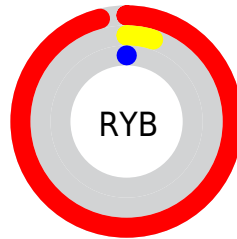
Distribution



Red (96%)

Green (5%)

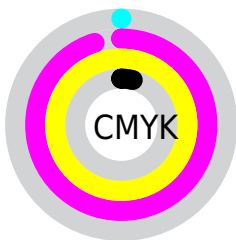
Blue (0%)



Red (96%)

Yellow (5%)

Blue (0%)

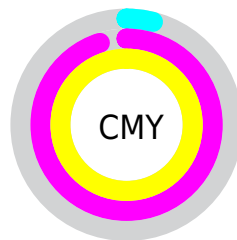


Cyan (0%)

Magenta (95%)

Yellow (100%)

Black (4%)



Cyan (4%)


Magenta (95%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 37.8001, 19.7003, 1.8103 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 37.8001, 19.7003, 1.8103 by changing the saturation by 10% instead.


 37.8001, 19.7003,
1.8103


 37.8001, 19.7003,
1.8103

 328.0574,
250.2880, 119.3579


 26.0041, 12.1774,
0.4347


 71.1075, 42.9141,
8.5154

 16.9594, 6.8646,
0.0000


 93.3496, 59.3739,
14.7730


 10.3007, 3.3776,
0.0000


 119.8045, 79.5813,
23.5254

 5.6626, 1.3319,
0.0000

 150.8374,
103.9208, 35.1911

 2.6797, 0.1657,
0.0000

 186.8139,
132.7769, 50.1887


 0.9867, 0.0000,
0.0000


 228.0991,


 0.0000, 0.0000,


166.5338, 68.9366


0.0000


 275.0585,
205.5761, 91.8535


 37.8001, 19.7003,
1.8103


 37.8001, 19.7003,
1.8103


 37.8005, 19.7015,
1.8105

 38.4645, 20.7573,
2.8711

 39.7972, 22.8079,
5.2109

 41.9409, 26.0315,
9.2051

 44.9975, 30.5680,
15.0845

 49.0539, 36.5379,
23.0431

■ 54.1870, 44.0479,
33.2509

■ 60.4660, 53.1946,
45.8603

■ 67.9543, 64.0667,
61.0104

■ 76.7109, 76.7465,
78.8298

Harmonies

Analogous

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



45.1308, 19.7003, 12.8802



37.8001, 19.7003, 1.8103



26.0415, 19.7003, 0.0000

Triad

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



37.8001, 19.7003, 1.8103



5.7233, 19.7003, 7.6591



22.4619, 19.7003, 136.2391

Complementary

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



37.8001, 19.7003, 1.8103



45.3231, 64.2761, 96.4032

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.



12.9252, 19.7003, 128.4554



37.8001, 19.7003, 1.8103



5.3644, 19.7003, 33.1664

Square

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



37.8001, 19.7003, 1.8103



8.7313, 19.7003, 0.8408



7.4700, 19.7003, 81.6477



34.3823, 19.7003, 98.0513

Rectangle

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



37.8001, 19.7003, 1.8103



18.5892, 19.7003, 0.0000



7.4700, 19.7003, 81.6477



18.8605, 19.7003, 139.3986

Sweetspot

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



37.8005, 19.7016, 1.8106



66.1722, 58.1866, 50.1266



52.3281, 25.2812, 79.0249



13.5087, 11.5013, 9.4111



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.



37.8005, 19.7016, 1.8106



41.3915, 21.5630, 1.9805



46.2851, 36.6708, 4.6388



16.5699, 16.6240, 17.1330



20.3938, 10.6732, 0.9853



1.8169, 0.9870, 0.0947

Inverse Universe

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



45.3231, 64.2761, 96.4032



49.6284, 70.3767, 105.5761



22.0844, 17.7987, 88.6570



16.9167, 18.5976, 21.2407



24.4500, 34.6937, 51.9459



2.1717, 3.0947, 4.5731

Previews

White Background



This preview shows how the XYZ color 37.8001, 19.7003, 1.8103 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 37.8001, 19.7003, 1.8103 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 37.8001, 19.7003, 1.8103

Background



This preview shows how black text looks on a background with the XYZ color 37.8001, 19.7003, 1.8103.



This preview shows how white text looks on a background with the XYZ color 37.8001, 19.7003,

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

37.8001, 19.7003, 1.8103

Protanopia

18.1158, 20.0086, 4.2737

Tritanopia

37.5951, 19.8069, 1.8416

Trichromacy



Original Color

37.8001, 19.7003, 1.8103

Protanomaly

21.6567, 15.8561, 2.5809

Tritanomaly

37.5411, 19.6988, 1.8236

Monochromacy



Original Color

37.8001, 19.7003, 1.8103

Achromatopsia

7.8210, 8.2283, 8.9606

Achromatomaly

13.0185, 8.7390, 4.2495

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.8001, 19.7003, 1.8103 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, 13, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 13, 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, 13, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 13, 0) }
```

Border

The CSS property to change the border of an element to XYZ 37.8001, 19.7003, 1.8103 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, 13, 0) }
```

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

```
.border{ border-color:rgb(245, 13, 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, 13, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 13, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 13, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 13, 0)  
}
```


Background

The CSS property to change the background color of an element to XYZ 37.8001, 19.7003, 1.8103 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 13, 0) }
```

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

```
.background{ background-color: rgb(245, 13,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor