

# Converting Colors

XYZ(37.3614, 19.7370, 2.2212)

Have a look what the booklet for  
XYZ(37.3614, 19.7370, 2.2212)  
contains.

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# Color

**XYZ(37.3614, 19.7370,  
2.2212)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F3180D
RGB	243, 24, 13
RGB Percent	95%, 9%, 5%
CMY	0.0471, 0.9057, 0.9490
CMYK	0.00, 0.90, 0.95, 0.05
HSL	3°, 91%, 50%
HSV	3°, 95%, 95%
XYZ	37.3614, 19.7370, 2.2212
YIQ	88.2270, 134.0550, 43.0070

# Conversions

## Conversions Part 2

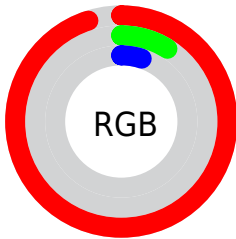
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">243, 25, 13</a>
Decimal	<a href="#">15931405</a>
CIELab	<a href="#">51.54, 75.15, 61.80</a>
CIELCh	<a href="#">52, 97.298, 39.430</a>
Yxy	<a href="#">19.7370, 0.6298, 0.3327</a>
Android (android.graphics.Color)	<a href="#">4294121485 (0xFFFF3180D)</a>
YUV	<a href="#">88.2270, -37.0869, 135.7359</a>
Hunter-Lab	<a href="#">44.4263, 72.3678, 28.1341</a>

# Details

The XYZ color **37.3614, 19.7370, 2.2212** 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 **45.1903, 64.2503, 94.8130**, and the grayscale version is **9.3873, 9.8762, 10.7552**.

A 20% lighter version of the original color is **46.7513, 30.7560, 8.4735**, and **17.9045, 9.2301, 0.8379** is the 20% darker color. If you saturate the color by 10%, you get **37.0892, 19.3092, 1.7722**, and if you desaturate by 10%, it is **38.3238, 21.2365, 3.8543**.

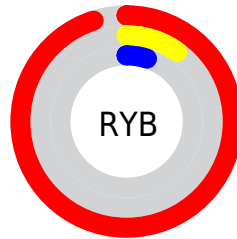
# Distribution



Red (95%)

Green (9%)

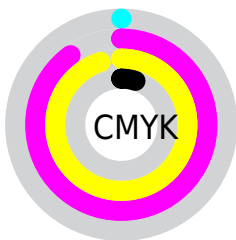
Blue (5%)



Red (95%)

Yellow (10%)

Blue (5%)

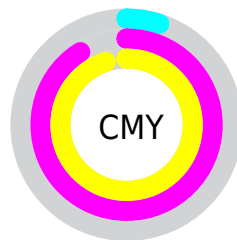


Cyan (0%)

Magenta (90%)

Yellow (95%)

Black (5%)



Cyan (5%)

Magenta (91%)


Yellow (95%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.3614, 19.7370, 2.2212 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 37.3614, 19.7370, 2.2212 by changing the saturation by 10% instead.





 37.3614, 19.7370,  
2.2212

 37.3614, 19.7370,  
2.2212


326.2010,  
250.4878, 125.7222

 25.6624, 12.2040,  
0.6866

 70.4385, 42.9758,  
9.6372

 16.7026, 6.8828,  
0.0000


 92.5473, 59.4504,  
16.3814

 10.1167, 3.3889,  
0.0000

 118.8567, 79.6743,  
25.7078

 5.5392, 1.3380,  
0.0000

 149.7322,  
104.0320, 38.0350

 2.6050, 0.1703,  
0.0000

 185.5390,  
132.9078, 53.7815


 0.9485, 0.0000,  
0.0000


 226.6424,


 0.0000, 0.0000,


166.6861, 73.3659


0.0000


 273.4080,  
205.7513, 97.2066


 37.3614, 19.7370,  
2.2212


 37.3614, 19.7370,  
2.2212


 37.0892, 19.3092,  
1.7722

 38.3238, 21.2365,  
3.8543

 40.0295, 23.8162,  
6.9873

 42.5903, 27.6304,  
11.8715

 46.0986, 32.8075,  
18.7119

 50.6349, 39.4598,  
27.6853

■ 56.2711, 47.6881,  
38.9489

■ 63.0728, 57.5842,  
52.6448

■ 71.1001, 69.2328,  
68.9039

■ 80.4094, 82.7131,  
87.8476

# Harmonies

## Analogous

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



44.1053, 19.7370, 13.8170



37.3614, 19.7370, 2.2212



26.1746, 19.7370, 0.0000

# Triad

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



37.3614, 19.7370, 2.2212



6.0848, 19.7370, 7.5760



22.0132, 19.7370, 130.4705

# Complementary

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



37.3614, 19.7370, 2.2212



45.1903, 64.2503, 94.8130

# 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.



12.8964, 19.7370, 121.6693



37.3614, 19.7370, 2.2212



5.6495, 19.7370, 31.5802

# Square

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



37.3614, 19.7370, 2.2212



9.1693, 19.7370, 0.9583



7.6587, 19.7370, 77.0749



33.4217, 19.7370, 95.7300



# Rectangle

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



37.3614, 19.7370, 2.2212



18.9471, 19.7370, 0.0000



7.6587, 19.7370, 77.0749



18.5730, 19.7370, 132.8994

# Sweetspot

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



37.3618, 19.7383, 2.2215



67.6255, 60.2553, 53.1941



52.1492, 25.3598, 80.9957



13.7793, 11.8853, 9.9862



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.



37.3618, 19.7383, 2.2215



41.3743, 21.5286, 1.9748



45.7917, 36.5981, 5.0314



16.5629, 16.6099, 17.1306



20.3831, 10.6518, 0.9817



1.8135, 0.9802, 0.0936



# Inverse Universe

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



45.1903, 64.2503, 94.8130



50.0309, 71.1817, 105.7103



23.1001, 20.0698, 87.4496



16.9246, 18.6135, 21.2433



24.6445, 35.0827, 52.0108



2.1866, 3.1247, 4.5781



# Previews

## White Background



This preview shows how the XYZ color 37.3614, 19.7370, 2.2212 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 37.3614, 19.7370, 2.2212 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 37.3614, 19.7370, 2.2212**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.3614, 19.7370, 2.2212.



This preview shows how white text looks on a background with the XYZ color 37.3614, 19.7370,



# 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

37.3614, 19.7370, 2.2212

### Protanopia

18.1585, 20.0256, 4.4984

### Deuteranopia

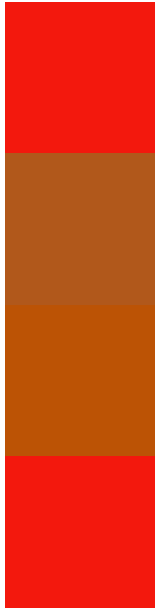
20.0716, 19.7905, 2.7621



## Tritanopia

37.3614, 19.7370, 2.2212

# Trichromacy



## Original Color

37.3614, 19.7370, 2.2212

## Protanomaly

21.8190, 16.4057, 3.0535

## Deuteranomaly

23.8597, 16.8888, 2.1459

## Tritanomaly

37.3614, 19.7370, 2.2212

# Monochromacy



## Original Color

37.3614, 19.7370, 2.2212

## Achromatopsia

9.2757, 9.7587, 10.6273

## Achromatomaly

14.2342, 10.0468, 5.6039

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.3614, 19.7370, 2.2212 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(243, 24, 13)` looks like.

```
.text, #text, p{  
    color:rgb(243, 24, 13)  
}
```

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(243, 24, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(243, 24, 13) }
```

## Border

The CSS property to change the border of an element to XYZ 37.3614, 19.7370, 2.2212 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(243, 24, 13) }
```



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

```
.border{ border-color:rgb(243, 24, 13) }
```

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

Here you see how a box with a 4 pixel rgb(243, 24, 13) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(243, 24, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(243, 24, 13);  
box-shadow:4px 4px 4px 4px rgb(243, 24,  
13) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.3614, 19.7370, 2.2212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(243, 24, 13) }
```

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

```
.background{ background-color: rgb(243, 24,  
13) }
```

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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