

# Converting Colors

XYZ(37.7424, 19.4470, 2.2163)

Have a look what the booklet for  
XYZ(37.7424, 19.4470, 2.2163)  
contains.

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# Color

**XYZ(37.7424, 19.4470,  
2.2163)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F5000F
RGB	245, 0, 15
RGB Percent	96%, 0%, 6%
CMY	0.0392, 0.9997, 0.9412
CMYK	0.00, 1.00, 0.94, 0.04
HSL	356°, 100%, 48%
HSV	356°, 100%, 96%
XYZ	37.7424, 19.4470, 2.2163
YIQ	74.9650, 141.2050, 56.6050

# Conversions

## Conversions Part 2

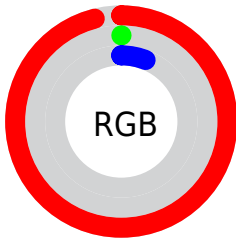
<b>Format</b>	<b>Color</b>
<b>RYB</b>	245, 0, 15
Decimal	16056335
CIELab	51.21, 77.83, 61.27
CIELCh	51, 99.047, 38.210
Yxy	19.4470, 0.6353, 0.3274
Android (android.graphics.Color)	4294246415 (0xFFFF5000F)
YUV	74.9650, -29.5627, 149.1207
Hunter-Lab	44.0988, 75.5984, 27.8894

# Details

The XYZ color **37.7424, 19.4470, 2.2163** 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 **46.9452, 71.0216, 86.1462**, and the grayscale version is **6.7219, 7.0720, 7.7014**.

A 20% lighter version of the original color is **46.2261, 29.6588, 8.4426**, and **18.3601, 9.4650, 0.8592** is the 20% darker color. If you saturate the color by 10%, you get **37.7416, 19.4466, 2.2139**, and if you desaturate by 10%, it is **38.3443, 20.2292, 3.7179**.

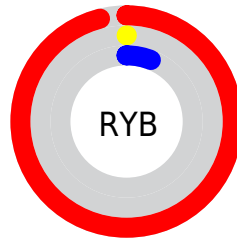
# Distribution



Red (96%)

Green (0%)

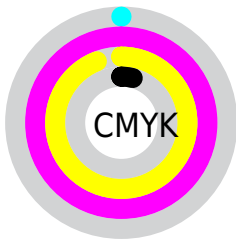
Blue (6%)



Red (96%)

Yellow (0%)

Blue (6%)

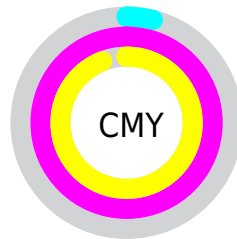


Cyan (0%)

Magenta (100%)

Yellow (94%)

Black (4%)



Cyan (4%)

Magenta (100%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7424, 19.4470, 2.2163 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 37.7424, 19.4470, 2.2163 by changing the saturation by 10% instead.





 37.7424, 19.4470,  
2.2163


 37.7424, 19.4470,  
2.2163

327.8136,  
248.9055, 125.6499


 25.9591, 11.9937,  
0.6838


 71.0196, 42.4881,  
9.6241

 16.9256, 6.7394,  
0.0000


 93.2442, 58.8446,  
16.3628

 10.2764, 3.2997,  
0.0000


 119.6800, 78.9378,  
25.6828

 5.6463, 1.2901,  
0.0000

 150.6923,  
103.1518, 38.0025

 2.6698, 0.1335,  
0.0000

 186.6464,  
131.8712, 53.7405


 0.9817, 0.0000,  
0.0000


 227.9078,


 0.0000, 0.0000,


165.4804, 73.3154


0.0000


 274.8417,  
204.3637, 97.1457


 37.7424, 19.4470,  
2.2163


 37.7424, 19.4470,  
2.2163


 37.7416, 19.4466,  
2.2139

 38.3443, 20.2292,  
3.7179

 39.5996, 21.9516,  
6.5666

 41.6768, 24.8927,  
10.9995

 44.6850, 29.2223,  
17.2021

 48.7166, 35.0836,  
25.3342

■ 53.8528, 42.6017,  
35.5378

■ 60.1668, 51.8890,  
47.9414

■ 67.7254, 63.0481,  
62.6632

■ 76.5904, 76.1736,  
79.8129

# Harmonies

## Analogous

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



44.3162, 19.4470, 14.3286



37.7424, 19.4470, 2.2163



26.4529, 19.4470, 0.0000

# Triad

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



37.7424, 19.4470, 2.2163



5.8765, 19.4470, 6.7373



21.3256, 19.4470, 133.2088

# Complementary

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



37.7424, 19.4470, 2.2163



46.9452, 71.0216, 86.1462

# 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.



12.3012, 19.4470, 122.2015



37.7424, 19.4470, 2.2163



5.3524, 19.4470, 29.9133

# Square

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



37.7424, 19.4470, 2.2163



9.0617, 19.4470, 0.7313



7.2301, 19.4470, 75.6490



32.8664, 19.4470, 98.9131



# Rectangle

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



37.7424, 19.4470, 2.2163



19.0824, 19.4470, 0.0000



7.2301, 19.4470, 75.6490



17.8978, 19.4470, 135.0230

# Sweetspot

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



37.7428, 19.4483, 2.2166



65.8244, 56.7259, 52.3691



48.6900, 23.1978, 88.2968



13.4302, 11.1713, 9.9180



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.



37.7428, 19.4483, 2.2166



41.3302, 21.2961, 2.4048



42.8314, 29.7627, 3.4893



16.5401, 16.4989, 17.3247



20.3486, 10.4829, 1.2782



1.8025, 0.9270, 0.1866



# Inverse Universe

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



37.7428, 19.4483, 2.2166



41.3302, 21.2961, 2.4048



25.6948, 25.0183, 89.8602



16.5401, 16.4989, 17.3247



20.3486, 10.4829, 1.2782



1.8025, 0.9270, 0.1866



# Previews

## White Background



This preview shows how the XYZ color 37.7424, 19.4470, 2.2163 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

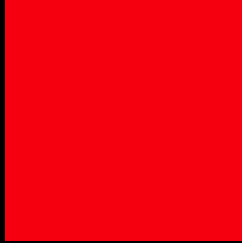
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.7424, 19.4470, 2.2163 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 37.7424, 19.4470, 2.2163**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7424, 19.4470, 2.2163.



This preview shows how white text looks on a background with the XYZ color 37.7424, 19.4470,



# 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

37.7424, 19.4470, 2.2163

### Protanopia

18.1890, 20.0378, 4.6593

### Deuteranopia

20.0716, 19.7905, 2.7621



## Tritanopia

37.2685, 19.6675, 1.8319

# Trichromacy



## Original Color

37.7424, 19.4470, 2.2163



## Protanomaly

21.3779, 15.1457, 2.9591



## Deuteranomaly

23.2152, 15.5999, 1.9311



## Tritanomaly

37.5064, 19.5857, 1.9472

# Monochromacy



## Original Color

37.7424, 19.4470, 2.2163



## Achromatopsia

6.6877, 7.0360, 7.6622



## Achromatomaly

12.0161, 7.6893, 4.2190

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7424, 19.4470, 2.2163 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, 0, 15)` looks like.

```
.text, #text, p{  
    color:rgb(245, 0, 15)  
}
```

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, 0, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 0, 15) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7424, 19.4470, 2.2163 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, 0, 15) }
```



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

```
.border{ border-color:rgb(245, 0, 15) }
```

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

Here you see how a box with a 4 pixel rgb(245, 0, 15) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 0, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 0, 15);  
box-shadow:4px 4px 4px 4px rgb(245, 0, 15)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 37.7424, 19.4470, 2.2163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 0, 15) }
```

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

```
.background{ background-color: rgb(245, 0,  
15) }
```

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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