

# Converting Colors

XYZ(37.5871, 19.3779, 1.7592)

Have a look what the booklet for  
XYZ(37.5871, 19.3779, 1.7592)  
contains.

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# Color

**XYZ(37.6562, 19.4125,  
1.7623)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F50000
RGB	245, 0, 0
RGB Percent	96%, 0%, 0%
CMY	0.0392, 0.9997, 1.0000
CMYK	0.00, 1.00, 1.00, 0.04
HSL	0°, 100%, 48%
HSV	0°, 100%, 96%
XYZ	37.6562, 19.4125, 1.7623
YIQ	73.2550, 146.0200, 51.9400

# Conversions

## Conversions Part 2

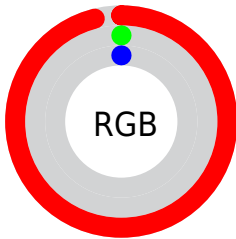
<b>Format</b>	<b>Color</b>
<b>RYB</b>	245, 0, 0
Decimal	16056320
CIELab	51.17, 77.72, 65.21
CIELCh	51, 101.454, 40.000
Yxy	19.4125, 0.6401, 0.3300
Android (android.graphics.Color)	4294246400 (0xFFFF50000)
YUV	73.2550, -36.1147, 150.6204
Hunter-Lab	44.0596, 75.4533, 28.4702

# Details

The XYZ color **37.6562, 19.4125, 1.7623** 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 **49.1139, 71.8577, 97.6668**, and the grayscale version is **6.4273, 6.7621, 7.3639**.

A 20% lighter version of the original color is **45.9812, 29.5608, 7.1532**, and **18.3601, 9.4650, 0.8592** is the 20% darker color. If you saturate the color by 10%, you get **37.6566, 19.4137, 1.7625**, and if you desaturate by 10%, it is **38.1643, 20.1570, 2.7710**.

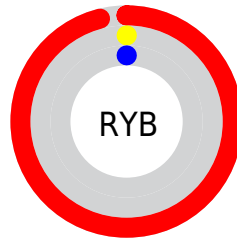
# Distribution



Red (96%)

Green (0%)

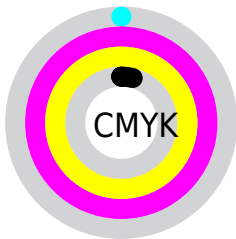
Blue (0%)



Red (96%)

Yellow (0%)

Blue (0%)

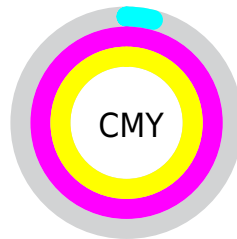


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6562, 19.4125, 1.7623 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 37.6562, 19.4125, 1.7623 by changing the saturation by 10% instead.





 37.6562, 19.4125,  
1.7623


 37.6562, 19.4125,  
1.7623


 327.4493,  
248.7166, 118.5693


 25.8920, 11.9687,  
0.4029


 70.8882, 42.4300,  
8.3801

 16.8751, 6.7224,  
0.0000


 93.0866, 58.7725,  
14.5776

 10.2402, 3.2891,  
0.0000


 119.4939, 78.8500,  
23.2587

 5.6220, 1.2845,  
0.0000

 150.4752,  
103.0469, 34.8421

 2.6551, 0.1291,  
0.0000

 186.3961,  
131.7476, 49.7463


 0.9741, 0.0000,  
0.0000


 227.6218,


 0.0000, 0.0000,


165.3366, 68.3899


0.0000


 274.5178,  
204.1981, 91.1914


 37.6562, 19.4125,  
1.7623


 37.6562, 19.4125,  
1.7623


 37.6566, 19.4137,  
1.7625

 38.1643, 20.1570,  
2.7710

 39.3108, 21.8352,  
5.0486

 41.2938, 24.7373,  
8.9892

 44.2320, 29.0370,  
14.8290

 48.2251, 34.8804,  
22.7665

■ 53.3603, 42.3948,  
32.9748

■ 59.7158, 51.6946,  
45.6096

■ 67.3629, 62.8840,  
60.8126

■ 76.3672, 76.0593,  
78.7144

# Harmonies

## Analogous

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



44.9047, 19.4125, 12.8833



37.6562, 19.4125, 1.7623



25.9122, 19.4125, 0.0000

# Triad

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



37.6562, 19.4125, 1.7623



5.5668, 19.4125, 7.2613



22.0285, 19.4125, 136.6220

# Complementary

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



37.6562, 19.4125, 1.7623



49.1139, 71.8577, 97.6668

# 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.



12.5801, 19.4125, 128.1089



37.6562, 19.4125, 1.7623



5.1824, 19.4125, 32.3257

# Square

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



37.6562, 19.4125, 1.7623



8.5802, 19.4125, 0.7341



7.2237, 19.4125, 80.7294



33.9390, 19.4125, 98.6420



# Rectangle

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



37.6562, 19.4125, 1.7623



18.4510, 19.4125, 0.0000



7.2237, 19.4125, 80.7294



18.4510, 19.4125, 139.5716

# Sweetspot

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



37.6566, 19.4138, 1.7626



65.3503, 56.5427, 49.8527



54.1372, 26.0049, 88.5516



13.3230, 11.1299, 9.3492



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.



37.6566, 19.4138, 1.7626



41.2407, 21.2615, 1.9302



44.6770, 33.4546, 4.1027



16.4996, 16.4832, 17.1095



20.2867, 10.4590, 0.9496



1.7831, 0.9195, 0.0835



# Inverse Universe

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



49.1139, 71.8577, 97.6668



53.7886, 78.6971, 106.9629



23.5025, 20.6348, 89.1297



16.9964, 18.7571, 21.2672



26.4591, 38.7119, 52.6156



2.3256, 3.4026, 4.6244



# Previews

## White Background



This preview shows how the XYZ color 37.6562, 19.4125, 1.7623 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

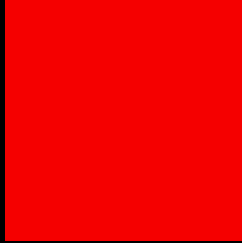
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.6562, 19.4125, 1.7623 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 37.6562, 19.4125, 1.7623**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6562, 19.4125, 1.7623.



This preview shows how white text looks on a background with the XYZ color 37.6562, 19.4125,



# 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

37.6562, 19.4125, 1.7623

### Protanopia

18.1158, 20.0086, 4.2737

### Deuteranopia

20.0716, 19.7905, 2.7621



## Tritanopia

37.2685, 19.6675, 1.8319

# Trichromacy



## Original Color

37.6562, 19.4125, 1.7623



## Protanomaly

21.2823, 15.1074, 2.4561



## Deuteranomaly

23.1878, 15.5889, 1.7868



## Tritanomaly

37.4791, 19.5747, 1.8029

# Monochromacy



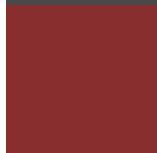
## Original Color

37.6562, 19.4125, 1.7623



## Achromatopsia

6.3328, 6.6626, 7.2556



## Achromatomaly

11.6235, 7.3855, 3.3977

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6562, 19.4125, 1.7623 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, 0)` looks like.

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

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

## Border

The CSS property to change the border of an element to XYZ 37.6562, 19.4125, 1.7623 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, 0) }
```



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

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

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

# Background

The CSS property to change the background color of an element to XYZ 37.6562, 19.4125, 1.7623 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, 0) }
```

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

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