

# Converting Colors

XYZ(36.8275, 19.0983, 1.9550)

Have a look what the booklet for  
XYZ(36.8275, 19.0983, 1.9550)  
contains.

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# Color

**XYZ(36.7323, 19.0445,  
1.9410)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F20707
RGB	242, 7, 7
RGB Percent	95%, 3%, 3%
CMY	0.0510, 0.9723, 0.9725
CMYK	0.00, 0.97, 0.97, 0.05
HSL	0°, 94%, 49%
HSV	0°, 97%, 95%
XYZ	36.7323, 19.0445, 1.9410
YIQ	77.2650, 140.0600, 49.8200

# Conversions

## Conversions Part 2

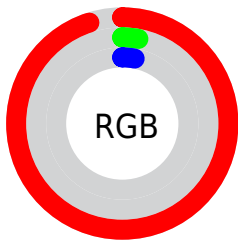
<b>Format</b>	<b>Color</b>
<b>RYB</b>	242, 7, 7
Decimal	15861511
CIELab	50.74, 76.53, 62.82
CIELCh	51, 99.013, 39.381
Yxy	19.0445, 0.6364, 0.3300
Android (android.graphics.Color)	4294051591 (0xFFFF20707)
YUV	77.2650, -34.6406, 144.4726
Hunter-Lab	43.6400, 73.8755, 27.9109

# Details

The XYZ color **36.7323, 19.0445, 1.9410** 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 **47.8493, 69.9254, 94.9789**, and the grayscale version is **7.1540, 7.5266, 8.1965**.

A 20% lighter version of the original color is **46.1745, 29.7813, 7.7296**, and **17.6792, 9.1140, 0.8274** is the 20% darker color. If you saturate the color by 10%, you get **36.6183, 18.8784, 1.7139**, and if you desaturate by 10%, it is **37.3644, 19.9704, 3.1957**.

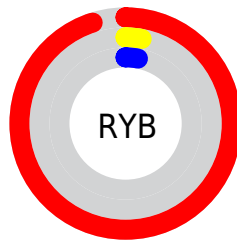
# Distribution



Red (95%)

Green (3%)

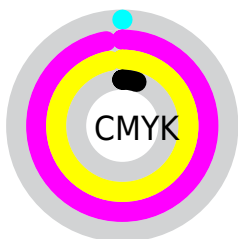
Blue (3%)



Red (95%)

Yellow (3%)

Blue (3%)

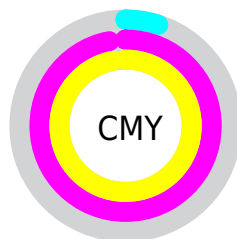


Cyan (0%)

Magenta (97%)

Yellow (97%)

Black (5%)



Cyan (5%)

Magenta (97%)


Yellow (97%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 36.7323, 19.0445, 1.9410 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 36.7323, 19.0445, 1.9410 by changing the saturation by 10% instead.



 36.7323, 19.0445,  
1.9410


 36.7323, 19.0445,  
1.9410


 323.5258,  
246.6943, 121.4538


 25.1730, 11.7024,  
0.5186


 69.4774, 41.8093,  
8.8789


 16.3354, 6.5414,  
0.0000


 91.3939, 58.0008,  
15.2966

 9.8542, 3.1770,  
0.0000


 117.4935, 77.9109,  
24.2382

 5.3639, 1.2248,  
0.0000

 148.1416,  
101.9240, 36.1223

 2.4993, 0.0818,  
0.0000

 183.7035,  
130.4245, 51.3673


 0.8949, 0.0000,  
0.0000


 224.5446,


 0.0000, 0.0000,


163.7968, 70.3919


0.0000


 271.0302,  
202.4253, 93.6145


 36.7323, 19.0445,  
1.9410


 36.7323, 19.0445,  
1.9410


 36.6183, 18.8784,  
1.7139

 37.3644, 19.9704,  
3.1957

 38.7046, 21.9320,  
5.8586

 40.8935, 25.1355,  
10.2089

 44.0402, 29.7403,  
16.4634

 48.2372, 35.8819,  
24.8064

■ 53.5664, 43.6801,  
35.4005

■ 60.1015, 53.2426,  
48.3924

■ 67.9099, 64.6682,  
63.9162

■ 77.0541, 78.0482,  
82.0962

# Harmonies

## Analogous

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



43.5131, 19.0445, 13.1773



36.7323, 19.0445, 1.9410



25.5131, 19.0445, 0.0000

# Triad

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



36.7323, 19.0445, 1.9410



5.6380, 19.0445, 7.0211



21.3221, 19.0445, 131.0741

# Complementary

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



36.7323, 19.0445, 1.9410



47.8493, 69.9254, 94.9789

# 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.



12.2849, 19.0445, 122.0169



36.7323, 19.0445, 1.9410



5.2138, 19.0445, 30.7430

# Square

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



36.7323, 19.0445, 1.9410



8.6435, 19.0445, 0.7656



7.1570, 19.0445, 76.6162



32.7385, 19.0445, 95.7297



# Rectangle

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



36.7323, 19.0445, 1.9410



18.3037, 19.0445, 0.0000



7.1570, 19.0445, 76.6162



17.9002, 19.0445, 133.5262

# Sweetspot

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



36.7327, 19.0457, 1.9413



66.1234, 57.6737, 51.3900



52.7206, 25.4399, 86.1355



13.4681, 11.3422, 9.6377



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.



36.7327, 19.0457, 1.9413



41.2407, 21.2614, 1.9302



43.9267, 33.4336, 4.3392



15.7732, 15.7595, 16.3603



19.6720, 10.1420, 0.9208



1.6366, 0.8439, 0.0766



# Inverse Universe

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



47.8493, 69.9254, 94.9789



53.7900, 78.7001, 106.9633



23.3852, 20.9971, 86.8241



16.2471, 17.9283, 20.3258



25.6580, 37.5403, 51.0216

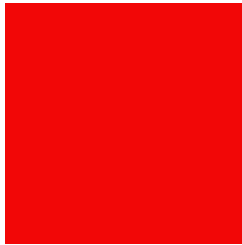


2.1346, 3.1232, 4.2446



# Previews

## White Background



This preview shows how the XYZ color 36.7323, 19.0445, 1.9410 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 36.7323, 19.0445, 1.9410 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 36.7323, 19.0445, 1.9410**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7323, 19.0445, 1.9410.



This preview shows how white text looks on a background with the XYZ color 36.7323, 19.0445,



# 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

36.7323, 19.0445, 1.9410

### Protanopia

17.5368, 19.3417, 4.1755

### Tritanopia

36.2221, 19.0991, 1.7774

# Trichromacy



## Original Color

36.7323, 19.0445, 1.9410

## Protanomaly

20.7025, 14.9131, 2.5980

## Tritanomaly

36.4925, 19.1082, 1.8510

# Monochromacy



## Original Color

36.7323, 19.0445, 1.9410

## Achromatopsia

7.0540, 7.4214, 8.0819

## Achromatomaly

12.1644, 8.0223, 4.1561

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7323, 19.0445, 1.9410 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(242, 7, 7)` looks like.

```
.text, #text, p{  
    color:rgb(242, 7, 7)  
}
```

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(242, 7, 7) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 7, 7) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7323, 19.0445, 1.9410 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(242, 7, 7) }
```

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

```
.border{ border-color:rgb(242, 7, 7) }
```

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

Here you see how a box with a 4 pixel rgb(242, 7, 7) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 7, 7); -webkit-box-shadow:4px  
4px 4px 4px rgb(242, 7, 7); box-shadow:4px  
4px 4px 4px rgb(242, 7, 7) }
```



# Background

The CSS property to change the background color of an element to XYZ 36.7323, 19.0445, 1.9410 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 7, 7) }
```

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

```
.background{ background-color: rgb(242, 7,  
7) }
```

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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