

# Converting Colors

XYZ(38.5973, 19.8843, 2.4118)

Have a look what the booklet for  
XYZ(38.5973, 19.8843, 2.4118)  
contains.

<b>XYZ(38.4753, 19.8212, 2.4141)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(38.4753, 19.8212,  
2.4141)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F70013
RGB	247, 0, 19
RGB Percent	97%, 0%, 7%
CMY	0.0314, 0.9997, 0.9255
CMYK	0.00, 1.00, 0.92, 0.03
HSL	355°, 100%, 48%
HSV	355°, 100%, 97%
XYZ	38.4753, 19.8212, 2.4141
YIQ	76.0190, 141.1130, 58.2730

# Conversions

## Conversions Part 2

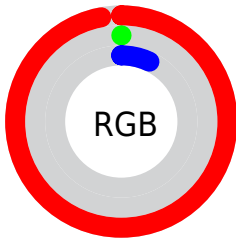
Format	Color
<a href="#">RYB</a>	247, 0, 19
Decimal	16187411
CIELab	51.63, 78.34, 60.43
CIElCh	52, 98.939, 37.642
Yxy	19.8212, 0.6337, 0.3265
Android (android.graphics.Color)	4294377491 (0xFFFF70013)
YUV	76.0190, -28.1104, 149.9503
Hunter-Lab	44.5210, 76.3489, 27.9498

# Details

The XYZ color **38.4753, 19.8212, 2.4141** 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 **47.2741, 72.1265, 84.8773**, and the grayscale version is **6.9117, 7.2716, 7.9188**.

A 20% lighter version of the original color is **46.4064, 29.8741, 8.9506**, and **18.8224, 9.7033, 0.8809** is the 20% darker color. If you saturate the color by 10%, you get **38.4744, 19.8208, 2.4113**, and if you desaturate by 10%, it is **39.1146, 20.6252, 4.0919**.

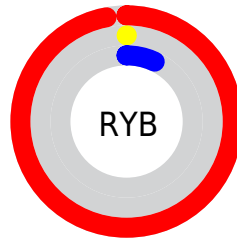
# Distribution



Red (97%)

Green (0%)

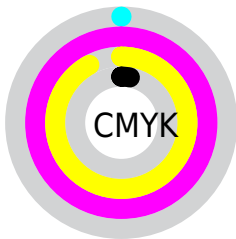
Blue (7%)



Red (97%)

Yellow (0%)

Blue (7%)

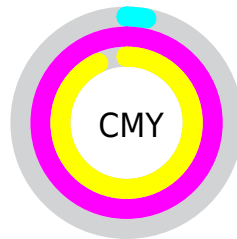


Cyan (0%)

Magenta (100%)

Yellow (92%)

Black (3%)



Cyan (3%)

Magenta (100%)


Yellow (93%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.4753, 19.8212, 2.4141 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 38.4753, 19.8212, 2.4141 by changing the saturation by 10% instead.





 38.4753, 19.8212,  
2.4141


 38.4753, 19.8212,  
2.4141

330.9002,  
250.9455, 128.5076


 26.5307, 12.2651,  
0.7941


 72.1353, 43.1172,  
10.1448


 17.3558, 6.9245,  
0.0000


 94.5813, 59.6259,  
17.1024

 10.5854, 3.4149,  
0.0000


 121.2586, 79.8877,  
26.6796

 5.8540, 1.3520,  
0.0000

 152.5324,  
104.2869, 39.2948

 2.7963, 0.1809,  
0.0000

 188.7681,  
133.2078, 55.3667

 1.0470, 0.0000,  
0.0000


 230.3311,


 0.0000, 0.0000,


167.0350, 75.3138


0.0000


 277.5867,  
206.1528, 99.5546


 38.4753, 19.8212,  
2.4141


 38.4753, 19.8212,  
2.4141


 38.4744, 19.8208,  
2.4113

 39.1146, 20.6252,  
4.0919

 40.4184, 22.3871,  
7.1333

 42.5549, 25.3890,  
11.7646

 45.6335, 29.8034,  
18.1637

 49.7468, 35.7755,  
26.4851

■ 54.9764, 43.4327,  
36.8662

■ 61.3955, 52.8890,  
49.4319

■ 69.0712, 64.2486,  
64.2970

■ 78.0657, 77.6077,  
81.5684

# Harmonies

## Analogous

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



44.9620, 19.8212, 15.0697



38.4753, 19.8212, 2.4141



27.1183, 19.8212, 0.0000

# Triad

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



38.4753, 19.8212, 2.4141



6.0854, 19.8212, 6.7043



21.5072, 19.8212, 134.6460

# Complementary

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



38.4753, 19.8212, 2.4141



47.2741, 72.1265, 84.8773

# 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.



12.4445, 19.8212, 122.6779



38.4753, 19.8212, 2.4141



5.5062, 19.8212, 29.7427

# Square

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



38.4753, 19.8212, 2.4141



9.3852, 19.8212, 0.7467



7.3670, 19.8212, 75.5190



33.1499, 19.8212, 100.8495



# Rectangle

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



38.4753, 19.8212, 2.4141



19.6396, 19.8212, 0.0000



7.3670, 19.8212, 75.5190



18.0613, 19.8212, 136.1476

# Sweetspot

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



38.4757, 19.8225, 2.4144



65.9502, 56.7762, 53.0314



48.2855, 22.9538, 89.8805



13.4587, 11.1827, 10.0683



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.



38.4757, 19.8225, 2.4144



41.3623, 21.3089, 2.5741



43.2037, 29.4659, 3.4124



16.5507, 16.5031, 17.3805



20.3673, 10.4904, 1.3766



1.8076, 0.9290, 0.2132



# Inverse Universe

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



38.4757, 19.8225, 2.4144



41.3623, 21.3089, 2.5741



26.7793, 26.6960, 91.7363



16.5507, 16.5031, 17.3805



20.3673, 10.4904, 1.3766



1.8076, 0.9290, 0.2132



# Previews

## White Background



This preview shows how the XYZ color 38.4753, 19.8212, 2.4141 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 38.4753, 19.8212, 2.4141 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 38.4753, 19.8212, 2.4141**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.4753, 19.8212, 2.4141.



This preview shows how white text looks on a background with the XYZ color 38.4753, 19.8212,



# 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

38.4753, 19.8212, 2.4141

### Protanopia

18.5491, 20.4028, 5.0583

### Deuteranopia

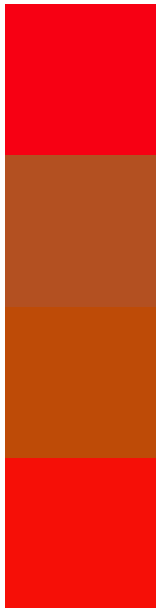
20.3831, 20.1250, 2.8102



## Tritanopia

37.9626, 20.0253, 1.8644

# Trichromacy



## Original Color

38.4753, 19.8212, 2.4141

## Protanomaly

21.7336, 15.4308, 3.2718

## Deuteranomaly

23.7896, 15.9946, 2.0344

## Tritanomaly

38.2152, 19.9498, 2.0375

# Monochromacy



## Original Color

38.4753, 19.8212, 2.4141

## Achromatopsia

6.8694, 7.2272, 7.8704

## Achromatomaly

12.2278, 7.7930, 4.4742

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.4753, 19.8212, 2.4141 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(247, 0, 19)` looks like.

```
.text, #text, p{  
    color:rgb(247, 0, 19)  
}
```

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(247, 0, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 0, 19) }
```

## Border

The CSS property to change the border of an element to XYZ 38.4753, 19.8212, 2.4141 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(247, 0, 19) }
```



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

```
.border{ border-color:rgb(247, 0, 19) }
```

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

Here you see how a box with a 4 pixel rgb(247, 0, 19) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 0, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 0, 19);  
box-shadow:4px 4px 4px 4px rgb(247, 0, 19)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 38.4753, 19.8212, 2.4141 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 0, 19) }
```

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

```
.background{ background-color: rgb(247, 0,  
19) }
```

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**