

# Converting Colors

XYZ(46.4138, 38.7132, 5.8903)

Have a look what the booklet for  
XYZ(46.4138, 38.7132, 5.8903)  
contains.

<b>XYZ(46.4138, 38.7132, 5.8903)</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(46.4138, 38.7132,  
5.8903)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F19018
RGB	241, 144, 24
RGB Percent	95%, 56%, 9%
CMY	0.0549, 0.4353, 0.9059
CMYK	0.00, 0.40, 0.90, 0.05
HSL	33°, 89%, 52%
HSV	33°, 90%, 95%
XYZ	46.4138, 38.7132, 5.8903
YIQ	159.3230, 96.3320, -16.7560

# Conversions

## Conversions Part 2

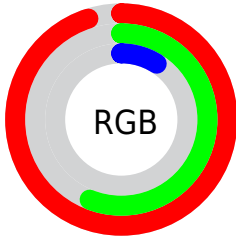
Format	Color
R <sub>Y</sub> B	199, 241, 24
Decimal	15831064
CIE Lab	68.54, 29.33, 70.12
CIE LCh	69, 76.009, 67.304
Yxy	38.7132, 0.5099, 0.4253
Android (android.graphics.Color)	4294021144 (0xFFFF19018)
YUV	159.3230, -66.7142, 71.6307
Hunter-Lab	62.2199, 24.2696, 37.9410

# Details

The XYZ color **46.4138, 38.7132, 5.8903** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **23.0912, 20.2197, 85.9044**, and the grayscale version is **33.3692, 35.1070, 38.2316**.

A 20% lighter version of the original color is **63.0343, 62.2883, 17.0881**, and **22.2744, 17.2937, 2.1640** is the 20% darker color. If you saturate the color by 10%, you get **44.7008, 35.5514, 4.5061**, and if you desaturate by 10%, it is **48.4958, 42.2842, 8.4135**.

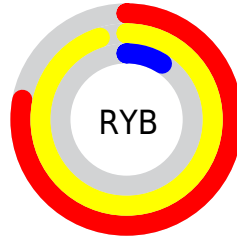
# Distribution



Red (95%)

Green (56%)

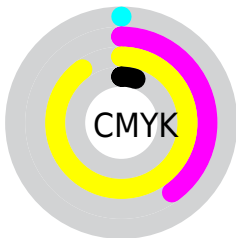
Blue (9%)



Red (78%)

Yellow (95%)

Blue (9%)

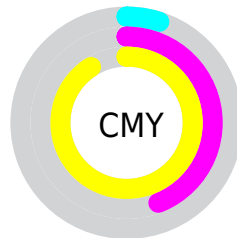


Cyan (0%)

Magenta (40%)

Yellow (90%)

Black (5%)



Cyan (5%)

Magenta (44%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.4138, 38.7132, 5.8903 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 46.4138, 38.7132, 5.8903 by changing the saturation by 10% instead.





 46.4138, 38.7132,  
5.8903


 46.4138, 38.7132,  
5.8903


363.1579,  
340.6696, 167.3600


 32.7785, 26.5367,  
2.7108

 84.0620, 73.2000,  
18.1765


 22.1152, 17.2256,  
0.9488


 108.8056, 96.2790,  
28.1202


 14.0587, 10.3954,  
0.0000


 137.9827,  
123.7611, 41.1558

 8.2435, 5.6619,  
0.0000

 171.9587,  
156.0305, 57.7018

 4.3042, 2.6406,  
0.0000

 211.0988,  
193.4716, 78.1766

 1.8757, 0.9471,  
0.0000

 255.7685,

 0.5626, 0.0000,

236.4689, 102.9989

0.0000

306.3331,  
285.4068, 132.5872

■ 0.0000, 0.0000,  
0.0000

■ 46.4138, 38.7132,  
5.8903

■ 46.4138, 38.7132,  
5.8903

■ 44.7008, 35.5514,  
4.5061

■ 48.4958, 42.2842,  
8.4135

■ 51.0067, 46.2809,  
12.4111

■ 53.9898, 50.7287,  
18.0866

■ 57.4811, 55.6481,  
25.6105

■ 61.5123, 61.0579,  
35.1323

66.1124, 66.9753,  
46.7858

71.3078, 73.4167,  
60.6931

77.1231, 80.3973,  
76.9671

83.5814, 87.9315,  
95.7130

# Harmonies

## Analogous

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



58.3169, 38.7132, 13.4879



46.4138, 38.7132, 5.8903



33.9455, 38.7132, 4.7431

# Triad

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



46.4138, 38.7132, 5.8903



18.3569, 38.7132, 51.1033



52.5879, 38.7132, 119.3674

# Complementary

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



46.4138, 38.7132, 5.8903



23.0912, 20.2197, 85.9044

# 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.



39.8012, 38.7132, 147.2196



46.4138, 38.7132, 5.8903



21.3517, 38.7132, 96.0746

# Square

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



46.4138, 38.7132, 5.8903



19.3793, 38.7132, 21.4850



28.6076, 38.7132, 136.9458



62.3872, 38.7132, 73.0573



# Rectangle

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



46.4138, 38.7132, 5.8903



27.2124, 38.7132, 6.5145



28.6076, 38.7132, 136.9458



48.4001, 38.7132, 132.0895

# Sweetspot

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



46.4147, 38.7152, 5.8910



76.8351, 78.2439, 57.5910



40.0936, 20.7508, 20.1921



16.0319, 16.2272, 11.2399



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.



46.4147, 38.7152, 5.8910



50.7676, 40.3153, 5.1059



64.3013, 79.8240, 12.8831



16.4976, 17.2083, 16.6017



24.3771, 19.5523, 2.4892



2.1271, 1.8249, 0.2401



# Inverse Universe

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



23.0912, 20.2197, 85.9044



24.0652, 19.2504, 97.0551



16.8921, 7.3592, 83.7488



15.4789, 16.3920, 20.0698



11.6322, 9.4886, 46.3463



1.0655, 0.9850, 3.8882



# Previews

## White Background



This preview shows how the XYZ color 46.4138, 38.7132, 5.8903 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 46.4138, 38.7132, 5.8903 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.4138, 38.7132, 5.8903**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.4138, 38.7132, 5.8903.



This preview shows how white text looks on a background with the XYZ color 46.4138, 38.7132,



# 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

46.4138, 38.7132, 5.8903

### Protanopia

35.2362, 38.9230, 6.9521

### Deuteranopia

39.5495, 38.7933, 5.4034



## Tritanopia

51.5652, 38.6566, 31.1293

# Trichromacy



**Original Color**

46.4138, 38.7132, 5.8903

**Protanomaly**

38.6202, 38.2900, 6.4538

**Deuteranomaly**

42.0363, 38.8189, 5.5357

**Tritanomaly**

48.6970, 38.3302, 16.8884

# Monochromacy



**Original Color**

46.4138, 38.7132, 5.8903

**Achromatopsia**

32.9542, 34.6704, 37.7561

**Achromatomaly**

35.3563, 35.0558, 19.6548

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.4138, 38.7132, 5.8903 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(241, 144, 24)` looks like.

```
.text, #text, p{  
    color:rgb(241, 144, 24)  
}
```

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(241, 144, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 144, 24) }
```

## Border

The CSS property to change the border of an element to XYZ 46.4138, 38.7132, 5.8903 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(241, 144, 24) }
```



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

```
.border{ border-color:rgb(241, 144, 24) }
```

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

Here you see how a box with a 4 pixel `rgb(241, 144, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 144, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 144, 24);  
box-shadow:4px 4px 4px 4px rgb(241, 144,  
24) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.4138, 38.7132, 5.8903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 144, 24) }
```

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

```
.background{ background-color: rgb(241,  
144, 24) }
```

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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