

# Converting Colors

XYZ(51.6934, 41.7221, 8.0134)

Have a look what the booklet for  
XYZ(51.6934, 41.7221, 8.0134)  
contains.

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# Color

**XYZ(51.5115, 41.5269,  
7.9899)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FE912F
RGB	254, 145, 47
RGB Percent	100%, 57%, 18%
CMY	0.0039, 0.4313, 0.8157
CMYK	0.00, 0.43, 0.81, 0.00
HSL	28°, 99%, 59%
HSV	28°, 81%, 100%
XYZ	51.5115, 41.5269, 7.9899
YIQ	166.4190, 96.4220, -7.3700

# Conversions

## Conversions Part 2

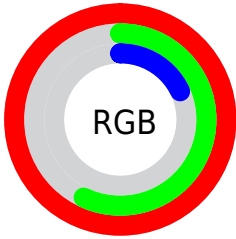
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	254, 233, 47
Decimal	16683311
CIE Lab	70.54, 34.62, 65.48
CIE LCh	71, 74.071, 62.133
Yxy	41.5269, 0.5099, 0.4110
Android (android.graphics.Color)	4294873391 (0xFFFE912F)
YUV	166.4190, -58.8736, 76.8085
Hunter-Lab	64.4414, 29.9124, 37.7578

# Details

The XYZ color **51.5115, 41.5269, 7.9899** 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 **30.9493, 31.5353, 98.2207**, and the grayscale version is **36.6935, 38.6044, 42.0402**.

A 20% lighter version of the original color is **64.2432, 63.5081, 21.1842**, and **25.4002, 18.9051, 2.3103** is the 20% darker color. If you saturate the color by 10%, you get **49.2154, 37.5304, 5.3893**, and if you desaturate by 10%, it is **54.3477, 46.1280, 12.2393**.

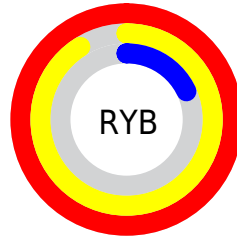
# Distribution



Red (100%)

Green (57%)

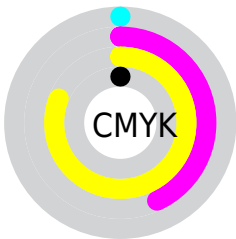
Blue (18%)



Red (100%)

Yellow (91%)

Blue (18%)

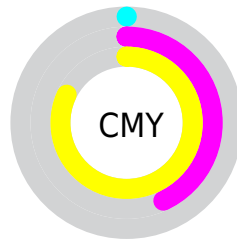


Cyan (0%)

Magenta (43%)

Yellow (81%)

Black (0%)



Cyan (0%)

Magenta (43%)


Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.5115, 41.5269, 7.9899 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 51.5115, 41.5269, 7.9899 by changing the saturation by 10% instead.





 51.5115, 41.5269,  
7.9899


 51.5115, 41.5269,  
7.9899


382.9028,  
352.5180, 185.5844

 36.8385, 28.7310,  
4.0008


 91.5889, 77.4831,  
22.4845

 25.2556, 18.8774,  
1.6258


 117.7241,  
101.4122, 33.8271


 16.3973, 11.5818,  
0.3091


 148.4107,  
129.8212, 48.4579

 9.8984, 6.4596,  
0.0000

 184.0141,  
163.0945, 66.7955

 5.3934, 3.1265,  
0.0000

 224.8996,  
201.6164, 89.2584

 2.5170, 1.1981,  
0.0000

 271.4327,

 0.9038, 0.0602,

245.7713, 116.2651

0.0000

323.9787,  
295.9437, 148.2343

■ 0.0000, 0.0000,  
0.0000

■ 51.5115, 41.5269,  
7.9899

■ 51.5115, 41.5269,  
7.9899

■ 49.2154, 37.5304,  
5.3893

■ 54.3477, 46.1280,  
12.2393

■ 47.6203, 34.5658,  
4.1620

■ 57.7741, 51.3610,  
18.3753

■ 61.8367, 57.2581,  
26.5985

■ 66.5753, 63.8469,  
37.0828

■ 72.0260, 71.1528,  
49.9837

78.2218, 79.1997,  
65.4429

85.1936, 88.0104,  
83.5909

92.9703, 97.6064,  
104.5493

94.6827, 99.8106,  
108.8828

# Harmonies

## Analogous

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



62.9158, 41.5269, 18.0244



51.5115, 41.5269, 7.9899



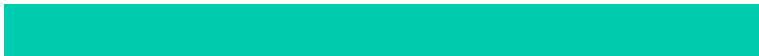
38.6013, 41.5269, 5.7865

# Triad

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



51.5115, 41.5269, 7.9899



20.3282, 41.5269, 47.7688



53.3431, 41.5269, 129.5657

# Complementary

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



51.5115, 41.5269, 7.9899



30.9493, 31.5353, 98.2207

# 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.



40.3518, 41.5269, 151.4051



51.5115, 41.5269, 7.9899



22.7200, 41.5269, 91.3202

# Square

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



51.5115, 41.5269, 7.9899



22.1198, 41.5269, 20.4797



29.4686, 41.5269, 134.6885



64.1176, 41.5269, 84.5577



# Rectangle

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



51.5115, 41.5269, 7.9899



31.2579, 41.5269, 7.1266



29.4686, 41.5269, 134.6885



49.0077, 41.5269, 140.6679

# Sweetspot

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



51.5124, 41.5291, 7.9906



77.2830, 77.8017, 61.8652



48.0094, 25.5520, 34.4798



16.0608, 16.0294, 12.0379



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.



51.5124, 41.5291, 7.9906



48.4029, 35.5410, 4.4554



74.6769, 87.8580, 15.7121



18.7187, 19.4055, 18.9034



25.2515, 18.5142, 2.2427



2.5671, 2.0195, 0.2545



# Inverse Universe

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



30.9493, 31.5353, 98.2207



27.0144, 25.0540, 98.0198



20.3764, 10.3895, 94.6964



17.7947, 18.9609, 22.9719



14.0562, 13.0219, 51.2072



1.4780, 1.4868, 5.0223



# Previews

## White Background



This preview shows how the XYZ color 51.5115, 41.5269, 7.9899 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 51.5115, 41.5269, 7.9899 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 51.5115, 41.5269, 7.9899**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.5115, 41.5269, 7.9899.



This preview shows how white text looks on a background with the XYZ color 51.5115, 41.5269,



# 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

51.5115, 41.5269, 7.9899

### Protanopia

37.8576, 41.6228, 9.5287

### Deuteranopia

42.5551, 41.6028, 7.7067



## Tritanopia

55.5949, 41.5435, 32.6923

# Trichromacy



## Original Color

51.5115, 41.5269, 7.9899

## Protanomaly

42.0136, 41.0323, 8.8376

## Deuteranomaly

45.4299, 41.2700, 7.7620

## Tritanomaly

53.6341, 41.4575, 20.2142

# Monochromacy



## Original Color

51.5115, 41.5269, 7.9899

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

39.0907, 37.8895, 23.9920

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.5115, 41.5269, 7.9899 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(254, 145, 47)` looks like.

```
.text, #text, p{  
    color:rgb(254, 145, 47)  
}
```

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(254, 145, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 145, 47) }
```

## Border

The CSS property to change the border of an element to XYZ 51.5115, 41.5269, 7.9899 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(254, 145, 47) }
```



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

```
.border{ border-color:rgb(254, 145, 47) }
```

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

Here you see how a box with a 4 pixel rgb(254, 145, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 145, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 145, 47);  
box-shadow:4px 4px 4px 4px rgb(254, 145,  
47) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.5115, 41.5269, 7.9899 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 145, 47) }
```

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

```
.background{ background-color: rgb(254,  
145, 47) }
```

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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