

# Converting Colors

XYZ(51.7454, 41.9818, 6.3248)

Have a look what the booklet for  
XYZ(51.7454, 41.9818, 6.3248)  
contains.

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# Color

**XYZ(51.7053, 41.8924,  
6.3381)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF921A
RGB	255, 146, 26
RGB Percent	100%, 57%, 10%
CMY	0.0000, 0.4274, 0.8980
CMYK	0.00, 0.43, 0.90, 0.00
HSL	31°, 100%, 55%
HSV	31°, 90%, 100%
XYZ	51.7053, 41.8924, 6.3381
YIQ	164.9110, 103.4840, -14.2120

# Conversions

## Conversions Part 2

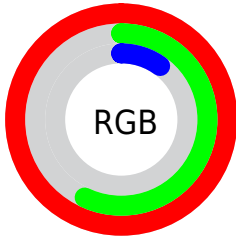
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	234, 255, 26
Decimal	16749082
CIE <sub>Lab</sub>	70.80, 34.04, 72.14
CIE <sub>LCh</sub>	71, 79.767, 64.738
Yxy	41.8924, 0.5174, 0.4192
Android (android.graphics.Color)	4294939162 (0xFFFF921A)
YUV	164.9110, -68.4831, 79.0081
Hunter-Lab	64.7243, 29.3279, 39.5011

# Details

The XYZ color **51.7053, 41.8924, 6.3381** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **27.1394, 24.7665, 97.9568**, and the grayscale version is **36.0063, 37.8814, 41.2529**.

A 20% lighter version of the original color is **63.8064, 63.7052, 17.7375**, and **25.4886, 19.0818, 2.3398** is the 20% darker color. If you saturate the color by 10%, you get **49.7497, 38.2755, 4.7803**, and if you desaturate by 10%, it is **54.0999, 46.0064, 9.2194**.

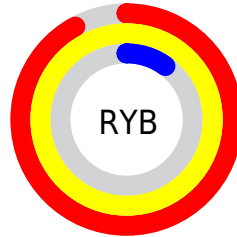
# Distribution



Red (100%)

Green (57%)

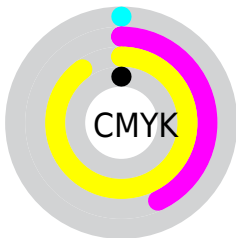
Blue (10%)



Red (92%)

Yellow (100%)

Blue (10%)

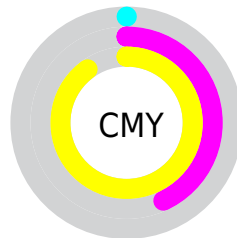


Cyan (0%)

Magenta (43%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (43%)


Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.7053, 41.8924, 6.3381 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 51.7053, 41.8924, 6.3381 by changing the saturation by 10% instead.





 51.7053, 41.8924,  
6.3381

 51.7053, 41.8924,  
6.3381


383.6405,  
354.0367, 171.4613

 36.9935, 29.0170,  
2.9796


 91.8733, 78.0368,  
19.1184

 25.3761, 19.0937,  
1.0842

 118.0602,  
102.0745, 29.3773


 16.4877, 11.7380,  
0.0000


 148.8029,  
130.6019, 42.7734

 9.9630, 6.5655,  
0.0000

 184.4668,  
164.0033, 59.7253

 5.4365, 3.1919,  
0.0000

 225.4171,  
202.6631, 80.6515

 2.5429, 1.2327,  
0.0000

 272.0192,

 0.9170, 0.0882,

246.9656, 105.9705

0.0000

324.6386,  
297.2954, 136.1009

■ 0.0000, 0.0000,  
0.0000

■ 51.7053, 41.8924,  
6.3381

■ 51.7053, 41.8924,  
6.3381

■ 49.7497, 38.2755,  
4.7803

■ 54.0999, 46.0064,  
9.2194

■ 49.7137, 38.2081,  
4.7547

■ 57.0069, 50.6508,  
13.7941

■ 60.4768, 55.8567,  
20.2960

■ 64.5518, 61.6497,  
28.9211

■ 69.2695, 68.0530,  
39.8407

74.6637, 75.0885,  
53.2086

80.7656, 82.7763,  
69.1651

87.6044, 91.1358,  
87.8399

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

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



64.6277, 41.8924, 15.3967



51.7053, 41.8924, 6.3381



37.7506, 41.8924, 4.6994

# Triad

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



51.7053, 41.8924, 6.3381



19.4471, 41.8924, 51.9076



56.1646, 41.8924, 135.6414

# Complementary

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



51.7053, 41.8924, 6.3381



27.1394, 24.7665, 97.9568

# 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.



41.9584, 41.8924, 163.7550



51.7053, 41.8924, 6.3381



22.3411, 41.8924, 101.0786

# Square

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



51.7053, 41.8924, 6.3381



20.9404, 41.8924, 21.0298



29.9075, 41.8924, 148.4854



67.5769, 41.8924, 84.3590



# Rectangle

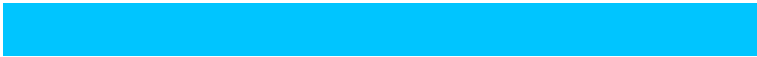
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



51.7053, 41.8924, 6.3381



30.0823, 41.8924, 6.2628



29.9075, 41.8924, 148.4854



51.4544, 41.8924, 149.1055

# Sweetspot

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



51.7062, 41.8946, 6.3388



76.3014, 77.1766, 57.4131



46.1019, 23.7959, 25.7120



15.9062, 15.9760, 11.1980



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.



51.7062, 41.8946, 6.3388



49.7142, 38.2084, 4.7547



75.7955, 92.1370, 14.7670



18.7971, 19.5624, 18.9295



26.1274, 20.2661, 2.5347



2.6534, 2.1921, 0.2833



# Inverse Universe

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



27.1394, 24.7665, 97.9568



24.9323, 20.9846, 97.3441



18.9496, 8.2323, 95.1971



17.7162, 18.8039, 22.9457



13.1749, 11.2593, 50.9135



1.3913, 1.3133, 4.9934



# Previews

## White Background



This preview shows how the XYZ color 51.7053, 41.8924, 6.3381 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 51.7053, 41.8924, 6.3381 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 51.7053, 41.8924, 6.3381**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.7053, 41.8924, 6.3381.



This preview shows how white text looks on a background with the XYZ color 51.7053, 41.8924,



# 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

51.7053, 41.8924, 6.3381

### Protanopia

37.9305, 41.9897, 7.6190

### Deuteranopia

42.9703, 42.1259, 5.8663



## Tritanopia

55.8179, 41.8634, 33.1555

# Trichromacy



## Original Color

51.7053, 41.8924, 6.3381

## Protanomaly

42.1381, 41.4016, 7.0667

## Deuteranomaly

45.8804, 41.7971, 5.9079

## Tritanomaly

53.4117, 41.6055, 18.3123

# Monochromacy



## Original Color

51.7053, 41.8924, 6.3381

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

38.5528, 37.6744, 21.1595

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.7053, 41.8924, 6.3381 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(255, 146, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 146, 26)  
}
```

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(255, 146, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 146, 26) }
```

## Border

The CSS property to change the border of an element to XYZ 51.7053, 41.8924, 6.3381 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(255, 146, 26) }
```



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

```
.border{ border-color:rgb(255, 146, 26) }
```

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

Here you see how a box with a 4 pixel rgb(255, 146, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 146, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 146, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 146,  
26) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.7053, 41.8924, 6.3381 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 146, 26) }
```

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

```
.background{ background-color: rgb(255,  
146, 26) }
```

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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