

# Converting Colors

XYZ(50.7543, 42.0416, 7.4550)

Have a look what the booklet for  
XYZ(50.7543, 42.0416, 7.4550)  
contains.

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# Color

**XYZ(50.9141, 42.1573,  
7.4612)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB9528
RGB	251, 149, 40
RGB Percent	98%, 58%, 16%
CMY	0.0157, 0.4157, 0.8431
CMYK	0.00, 0.41, 0.84, 0.02
HSL	31°, 96%, 57%
HSV	31°, 84%, 98%
XYZ	50.9141, 42.1573, 7.4612
YIQ	167.0720, 95.7810, -12.2750

# Conversions

## Conversions Part 2

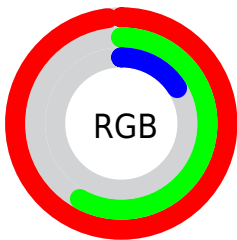
Format	Color
R <sub>Y</sub> B	237, 251, 40
Decimal	16487720
CIE Lab	70.98, 31.16, 68.12
CIE LCh	71, 74.911, 65.419
Yxy	42.1573, 0.5064, 0.4193
Android (android.graphics.Color)	4294677800 (0xFFFB9528)
YUV	167.0720, -62.6465, 73.6049
Hunter-Lab	64.9287, 26.3464, 38.6368

# Details

The XYZ color **50.9141, 42.1573, 7.4612** 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 **27.9601, 26.7611, 94.9578**, and the grayscale version is **37.0301, 38.9585, 42.4259**.

A 20% lighter version of the original color is **64.9442, 65.2903, 20.2457**, and **25.0137, 19.2408, 2.3955** is the 20% darker color. If you saturate the color by 10%, you get **48.7967, 38.3989, 5.2882**, and if you desaturate by 10%, it is **53.5099, 46.4307, 11.1586**.

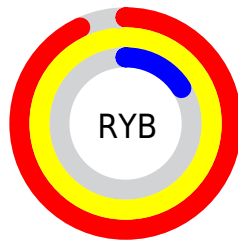
# Distribution



Red (98%)

Green (58%)

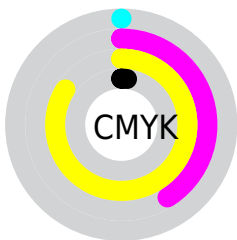
Blue (16%)



Red (93%)

Yellow (98%)

Blue (16%)

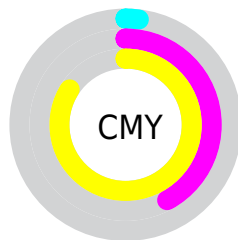


Cyan (0%)

Magenta (41%)

Yellow (84%)

Black (2%)



Cyan (2%)

Magenta (42%)


Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.9141, 42.1573, 7.4612 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 50.9141, 42.1573, 7.4612 by changing the saturation by 10% instead.





 50.9141, 42.1573,  
7.4612


 50.9141, 42.1573,  
7.4612


380.6231,  
355.1346, 181.2165

 36.3610, 29.2245,  
3.6694


 90.7115, 78.4376,  
21.4237


 24.8845, 19.2507,  
1.4458


 116.6866,  
102.5539, 32.4314


 16.1193, 11.8516,  
0.1770


 147.1997,  
131.1669, 46.6815

 9.7000, 6.6427,  
0.0000

 182.6162,  
164.6608, 64.5925

 5.2613, 3.2397,  
0.0000

 223.3014,  
203.4202, 86.5829

 2.4377, 1.2581,  
0.0000

 269.6207,

 0.8639, 0.1084,

247.8293, 113.0714

0.0000

321.9395,  
298.2727, 144.4764

■ 0.0000, 0.0000,  
0.0000

■ 50.9141, 42.1573,  
7.4612

■ 50.9141, 42.1573,  
7.4612

■ 48.7967, 38.3989,  
5.2882

■ 53.5099, 46.4307,  
11.1586

■ 47.7221, 36.3866,  
4.5081

■ 56.6335, 51.2428,  
16.6244

■ 60.3295, 56.6220,  
24.0610

■ 64.6357, 62.5922,  
33.6423

■ 69.5866, 69.1755,  
45.5229

75.2133, 76.3922,  
59.8430

81.5449, 84.2619,  
76.7314

88.6085, 92.8028,  
96.3080

93.5934, 99.2491,  
108.8318

# Harmonies

## Analogous

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



63.0032, 42.1573, 16.4638



50.9141, 42.1573, 7.4612



37.8436, 42.1573, 5.8315

# Triad

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



50.9141, 42.1573, 7.4612



20.5989, 42.1573, 52.7091



55.6633, 42.1573, 127.8763

# Complementary

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



50.9141, 42.1573, 7.4612



27.9601, 26.7611, 94.9578

# 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.



42.3805, 42.1573, 154.0819



50.9141, 42.1573, 7.4612



23.5098, 42.1573, 98.4224

# Square

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



50.9141, 42.1573, 7.4612



21.9557, 42.1573, 22.8217



30.8853, 42.1573, 141.1732



66.1202, 42.1573, 80.8745



# Rectangle

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



50.9141, 42.1573, 7.4612



30.6187, 42.1573, 7.5884



30.8853, 42.1573, 141.1732



51.2882, 42.1573, 140.2766

# Sweetspot

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



50.9150, 42.1595, 7.4620



77.3767, 78.4430, 60.4974



45.6919, 24.0868, 29.2324



16.1105, 16.2155, 11.7871



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.



50.9150, 42.1595, 7.4620



49.4556, 37.6912, 4.6685



74.6633, 89.6561, 15.3781



17.9863, 18.7085, 18.1255



25.2316, 19.4198, 2.4185



2.4431, 2.0110, 0.2594



# Inverse Universe

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



27.9601, 26.7611, 94.9578



25.1657, 21.4513, 97.4219



19.0466, 8.9341, 91.9867



16.9755, 18.0278, 21.9703



12.9122, 11.1801, 49.4510



1.3015, 1.2467, 4.6152



# Previews

## White Background



This preview shows how the XYZ color 50.9141, 42.1573, 7.4612 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 50.9141, 42.1573, 7.4612 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 50.9141, 42.1573, 7.4612**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.9141, 42.1573, 7.4612.



This preview shows how white text looks on a background with the XYZ color 50.9141, 42.1573,



# 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

50.9141, 42.1573, 7.4612

### Protanopia

38.6080, 42.6009, 8.8773

### Deuteranopia

43.2177, 42.2248, 7.1687



## Tritanopia

56.1231, 42.2182, 34.0451

# Trichromacy



## Original Color

50.9141, 42.1573, 7.4612

## Protanomaly

42.4097, 42.0532, 8.2647

## Deuteranomaly

45.6419, 41.9007, 7.1954

## Tritanomaly

53.5100, 41.8415, 20.0078

# Monochromacy



## Original Color

50.9141, 42.1573, 7.4612

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

39.3107, 38.5279, 23.4539

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.9141, 42.1573, 7.4612 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(251, 149, 40)` looks like.

```
.text, #text, p{  
    color:rgb(251, 149, 40)  
}
```

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(251, 149, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 149, 40) }
```

## Border

The CSS property to change the border of an element to XYZ 50.9141, 42.1573, 7.4612 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(251, 149, 40) }
```



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

```
.border{ border-color:rgb(251, 149, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 149, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 149, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 149, 40);  
box-shadow:4px 4px 4px 4px rgb(251, 149,  
40) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.9141, 42.1573, 7.4612 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 149, 40) }
```

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

```
.background{ background-color: rgb(251,  
149, 40) }
```

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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