

# Converting Colors

XYZ(49.9814, 42.7509, 5.6174)

Have a look what the booklet for  
XYZ(49.9814, 42.7509, 5.6174)  
contains.

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# Color

**XYZ(50.1026, 42.7389,  
5.6087)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F89900
RGB	248, 153, 0
RGB Percent	97%, 60%, 0%
CMY	0.0275, 0.4000, 1.0000
CMYK	0.00, 0.38, 1.00, 0.03
HSL	37°, 100%, 49%
HSV	37°, 100%, 97%
XYZ	50.1026, 42.7389, 5.6087
YIQ	163.9630, 105.7330, -27.4430

# Conversions

## Conversions Part 2

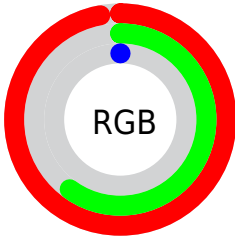
Format	Color
<a href="#">RYB</a>	<a href="#">154, 248, 0</a>
Decimal	<a href="#">16292096</a>
CIELab	<a href="#">71.38, 27.28, 76.24</a>
CIElCh	<a href="#">71, 80.968, 70.313</a>
Yxy	<a href="#">42.7389, 0.5089, 0.4341</a>
Android (android.graphics.Color)	<a href="#">4294482176 (0xFFFF89900)</a>
YUV	<a href="#">163.9630, -80.8338, 73.7004</a>
Hunter-Lab	<a href="#">65.3750, 22.3940, 40.6758</a>

# Details

The XYZ color **50.1026, 42.7389, 5.6087** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **21.0359, 14.9625, 90.5855**, and the grayscale version is **35.6083, 37.4627, 40.7968**.

A 20% lighter version of the original color is **65.1354, 66.9076, 16.5026**, and **24.7590, 19.8170, 2.5201** is the 20% darker color. If you saturate the color by 10%, you get **50.1027, 42.7396, 5.6089**, and if you desaturate by 10%, it is **51.8943, 46.0453, 7.0616**.

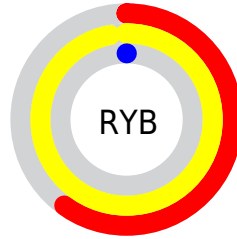
# Distribution



Red (97%)

Green (60%)

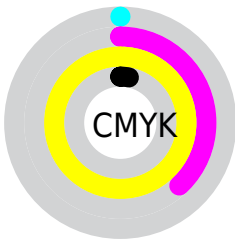
Blue (0%)



Red (60%)

Yellow (97%)

Blue (0%)

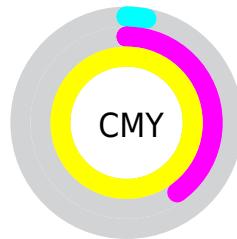


Cyan (0%)

Magenta (38%)

Yellow (100%)

Black (3%)



Cyan (3%)

Magenta (40%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.1026, 42.7389, 5.6087 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 50.1026, 42.7389, 5.6087 by changing the saturation by 10% instead.





 50.1026, 42.7389,  
5.6087


 50.1026, 42.7389,  
5.6087


377.5124,  
357.5369, 164.7092

 35.7131, 29.6803,  
2.5437


 89.5178, 79.3167,  
17.5766


 24.3817, 19.5961,  
0.8632


 115.2741,  
103.6047, 27.3166


 15.7433, 12.1018,  
0.0000


 145.5502,  
132.4046, 40.1186

 9.4324, 6.8130,  
0.0000

 180.7112,  
166.1009, 56.4013

 5.0836, 3.3454,  
0.0000

 221.1225,  
205.0778, 76.5832

 2.3317, 1.3146,  
0.0000

 267.1496,

 0.8108, 0.1525,

249.7199, 101.0828

0.0000

319.1578,  
300.4114, 130.3186

0.0000, 0.0000,  
0.0000

50.1026, 42.7389,  
5.6087

50.1026, 42.7389,  
5.6087

50.1027, 42.7396,  
5.6089

51.8943, 46.0453,  
7.0616

54.0322, 49.6908,  
9.7174

56.5880, 53.7103,  
13.9362

59.6054, 58.1253,  
19.9354

63.1215, 62.9549,  
27.8974

67.1687, 68.2159,  
37.9819

71.7767, 73.9240,  
50.3319

76.9722, 80.0936,  
65.0781

82.7804, 86.7385,  
82.3408

# Harmonies

## Analogous

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



64.0531, 42.7389, 12.9151



50.1026, 42.7389, 5.6087



36.1099, 42.7389, 4.8694

# Triad

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



50.1026, 42.7389, 5.6087



19.9137, 42.7389, 61.3021



60.0386, 42.7389, 130.3991

# Complementary

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



50.1026, 42.7389, 5.6087



21.0359, 14.9625, 90.5855

# 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.



45.4952, 42.7389, 166.2689



50.1026, 42.7389, 5.6087



23.7407, 42.7389, 113.9137

# Square

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



50.1026, 42.7389, 5.6087



20.6107, 42.7389, 25.5590



32.4199, 42.7389, 158.9614



70.6196, 42.7389, 76.6650



# Rectangle

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



50.1026, 42.7389, 5.6087



28.7817, 42.7389, 7.1671



32.4199, 42.7389, 158.9614



55.3320, 42.7389, 146.0102

# Sweetspot

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



50.1035, 42.7411, 5.6095



76.4401, 78.7223, 53.5493



40.7801, 20.7841, 12.7065



15.9019, 16.2878, 10.2088



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.



50.1035, 42.7411, 5.6095



53.3515, 45.4829, 5.9672



62.8008, 82.2047, 12.5575



18.1364, 19.0086, 18.1755



27.2056, 23.3679, 3.0766



2.6222, 2.3692, 0.3191



# Inverse Universe

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



21.0359, 14.9625, 90.5855



22.3876, 15.8953, 96.4959



17.4484, 7.0379, 89.2450



16.8280, 17.7329, 21.9212



11.4884, 8.3324, 48.9764



1.1630, 0.9696, 4.5690



# Previews

## White Background



This preview shows how the XYZ color 50.1026, 42.7389, 5.6087 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 50.1026, 42.7389, 5.6087 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 50.1026, 42.7389, 5.6087**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.1026, 42.7389, 5.6087.



This preview shows how white text looks on a background with the XYZ color 50.1026, 42.7389,



# 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

50.1026, 42.7389, 5.6087

### Protanopia

38.9232, 43.1001, 6.8399

### Deuteranopia

43.7604, 42.8020, 5.9552



## Tritanopia

56.2958, 42.7167, 35.4150

# Trichromacy



## Original Color

50.1026, 42.7389, 5.6087

## Protanomaly

42.3819, 42.6284, 6.3109

## Deuteranomaly

45.6999, 42.4787, 5.7906

## Tritanomaly

52.5814, 42.1163, 16.6672

# Monochromacy



## Original Color

50.1026, 42.7389, 5.6087

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

37.5752, 37.7432, 18.4014

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.1026, 42.7389, 5.6087 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(248, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(248, 153, 0)  
}
```

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(248, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(248, 153, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 50.1026, 42.7389, 5.6087 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(248, 153, 0) }
```



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

```
.border{ border-color:rgb(248, 153, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(248, 153, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(248, 153, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(248, 153, 0);  
box-shadow:4px 4px 4px 4px rgb(248, 153,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.1026, 42.7389, 5.6087 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(248, 153, 0) }
```

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

```
.background{ background-color: rgb(248,  
153, 0) }
```

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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