

# Converting Colors

XYZ(47.2670, 49.2565, 7.0162)

Have a look what the booklet for  
XYZ(47.2670, 49.2565, 7.0162)  
contains.

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# Color

**XYZ(47.1594, 49.1439,  
7.0001)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DFB600
RGB	223, 182, 0
RGB Percent	87%, 71%, 0%
CMY	0.1255, 0.2863, 0.9999
CMYK	0.00, 0.18, 1.00, 0.13
HSL	49°, 100%, 44%
HSV	49°, 100%, 87%
XYZ	47.1594, 49.1439, 7.0001
YIQ	173.5110, 82.8580, -47.9100

# Conversions

## Conversions Part 2

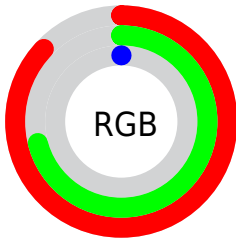
<b>Format</b>	<b>Color</b>
<b>RYB</b>	50, 223, 0
Decimal	14661120
CIELab	75.54, 1.26, 77.71
CIElCh	76, 77.718, 89.070
Yxy	49.1439, 0.4565, 0.4757
Android (android.graphics.Color)	4292851200 (0xFFDFB600)
YUV	173.5110, -85.5409, 43.4019
Hunter-Lab	70.1027, -2.5995, 43.1515

# Details

The XYZ color **47.1594, 49.1439, 7.0001** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **14.1127, 6.9144, 70.4023**, and the grayscale version is **40.3783, 42.4811, 46.2619**.

A 20% lighter version of the original color is **73.2997, 83.0032, 19.9425**, and **23.0869, 23.7518, 3.3677** is the 20% darker color. If you saturate the color by 10%, you get **47.1597, 49.1450, 7.0003**, and if you desaturate by 10%, it is **48.1603, 50.9094, 8.0634**.

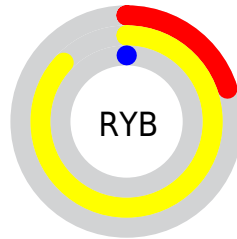
# Distribution



Red (87%)

Green (71%)

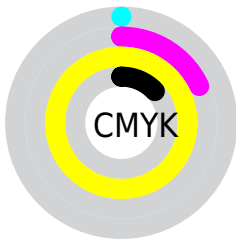
Blue (0%)



Red (20%)

Yellow (87%)

Blue (0%)

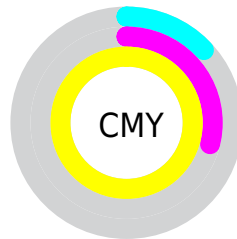


Cyan (0%)

Magenta (18%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (29%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.1594, 49.1439, 7.0001 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 47.1594, 49.1439, 7.0001 by changing the saturation by 10% instead.





 47.1594, 49.1439,  
7.0001


 47.1594, 49.1439,  
7.0001


366.0887,  
383.3085, 177.2955

 33.3702, 34.7336,  
3.3837


 85.1688, 88.9051,  
20.4863


 22.5708, 23.4578,  
1.2937


 110.1197,  
115.0249, 31.1932


 14.3958, 14.9319,  
0.0567


 139.5218,  
145.8166, 45.1006

 8.4800, 8.7716,  
0.0000

 173.7405,  
181.6647, 62.6272

 4.4580, 4.5925,  
0.0000

 213.1412,  
222.9536, 84.1914

 1.9643, 2.0102,  
0.0000

 258.0893,

 0.6138, 0.6134,

270.0676, 110.2119

0.0000

308.9500,  
323.3911, 141.1070

■ 0.0000, 0.0000,  
0.0000

■ 47.1594, 49.1439,  
7.0001

■ 47.1594, 49.1439,  
7.0001

■ 47.1597, 49.1450,  
7.0003

■ 48.1603, 50.9094,  
8.0634

■ 49.3555, 52.7903,  
10.0324

■ 50.8016, 54.8116,  
13.1993

■ 52.5302, 56.9862,  
17.7299

■ 54.5681, 59.3251,  
23.7635

■ 56.9385, 61.8380,  
31.4223

■ 59.6625, 64.5335,  
40.8161

■ 62.7594, 67.4197,  
52.0448

■ 66.2467, 70.5039,  
65.2009

# Harmonies

## Analogous

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



62.3814, 49.1439, 10.3115



47.1594, 49.1439, 7.0001



34.5417, 49.1439, 9.8891

# Triad

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



47.1594, 49.1439, 7.0001



26.5004, 49.1439, 101.8383



74.6114, 49.1439, 105.2907

# Complementary

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



47.1594, 49.1439, 7.0001



14.1127, 6.9144, 70.4023

# 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.



61.4448, 49.1439, 156.6010



47.1594, 49.1439, 7.0001



33.9108, 49.1439, 153.9896

# Square

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



47.1594, 49.1439, 7.0001



24.1906, 49.1439, 52.2361



46.2631, 49.1439, 177.8476



80.0992, 49.1439, 54.8031



# Rectangle

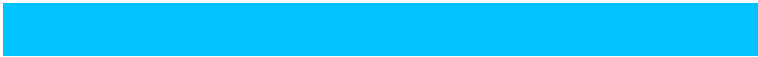
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



47.1594, 49.1439, 7.0001



28.8062, 49.1439, 16.6324



46.2631, 49.1439, 177.8476



70.8197, 49.1439, 123.8002

# Sweetspot

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



47.1605, 49.1463, 7.0011



80.7626, 87.3673, 54.9901



30.8976, 15.8747, 3.8795



16.9390, 18.3620, 10.5545



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.



47.1605, 49.1463, 7.0011



63.8253, 66.4306, 9.4584



40.1182, 59.8534, 9.4389



14.6463, 15.5786, 14.5418



27.8065, 29.0508, 4.1418



1.9837, 2.1263, 0.3059



# Inverse Universe

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



14.1127, 6.9144, 70.4023



19.0617, 9.2434, 95.3872



15.6281, 6.5182, 70.2460



13.1549, 13.6489, 17.3288



8.3574, 4.1844, 41.4155



0.6395, 0.4105, 2.8908



# Previews

## White Background



This preview shows how the XYZ color 47.1594, 49.1439, 7.0001 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

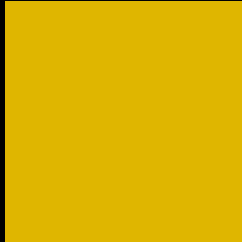
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.1594, 49.1439, 7.0001 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 47.1594, 49.1439, 7.0001**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.1594, 49.1439, 7.0001.



This preview shows how white text looks on a background with the XYZ color 47.1594, 49.1439,



# 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

47.1594, 49.1439, 7.0001

### Protanopia

44.3980, 49.2620, 7.4269

### Deuteranopia

50.4154, 49.3176, 7.3924



## Tritanopia

56.2357, 49.0770, 50.7648

# Trichromacy



## Original Color

47.1594, 49.1439, 7.0001

## Protanomaly

45.4062, 49.1581, 7.2676

## Deuteranomaly

49.1355, 49.2533, 7.2337

## Tritanomaly

50.6015, 48.1911, 23.1578

# Monochromacy



## Original Color

47.1594, 49.1439, 7.0001

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

40.3296, 43.7984, 21.3673

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.1594, 49.1439, 7.0001 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(223, 182, 0)` looks like.

```
.text, #text, p{  
    color:rgb(223, 182, 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(223, 182, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 182, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 47.1594, 49.1439, 7.0001 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(223, 182, 0) }
```



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

```
.border{ border-color:rgb(223, 182, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 182, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 182, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 182, 0);  
box-shadow:4px 4px 4px 4px rgb(223, 182,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.1594, 49.1439, 7.0001 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 182, 0) }
```

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

```
.background{ background-color: rgb(223,  
182, 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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