

# Converting Colors

XYZ(46.1442, 44.0831, 6.0768)

Have a look what the booklet for  
XYZ(46.1442, 44.0831, 6.0768)  
contains.

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# Color

**XYZ(45.9493, 43.9304,  
6.0576)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5A600
RGB	229, 166, 0
RGB Percent	90%, 65%, 0%
CMY	0.1020, 0.3490, 0.9999
CMYK	0.00, 0.28, 1.00, 0.10
HSL	43°, 100%, 45%
HSV	43°, 100%, 90%
XYZ	45.9493, 43.9304, 6.0576
YIQ	165.9130, 90.8340, -38.2700

# Conversions

## Conversions Part 2

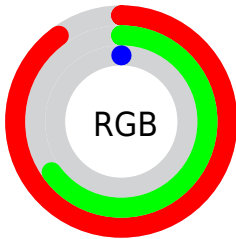
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 229, 0
Decimal	15050240
CIELab	72.18, 12.32, 75.69
CIELCh	72, 76.685, 80.751
Yxy	43.9304, 0.4790, 0.4579
Android (android.graphics.Color)	4293240320 (0xFFE5A600)
YUV	165.9130, -81.7951, 55.3273
Hunter-Lab	66.2800, 7.7569, 40.9773

# Details

The XYZ color **45.9493, 43.9304, 6.0576** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **15.9209, 9.2131, 75.0673**, and the grayscale version is **36.5575, 38.4614, 41.8844**.

A 20% lighter version of the original color is **68.4716, 73.5230, 17.7902**, and **22.1658, 20.3595, 2.7615** is the 20% darker color. If you saturate the color by 10%, you get **45.9494, 43.9311, 6.0577**, and if you desaturate by 10%, it is **47.2775, 46.3410, 7.2591**.

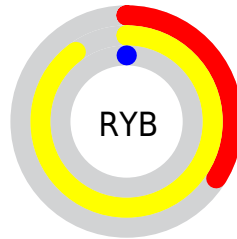
# Distribution



Red (90%)

Green (65%)

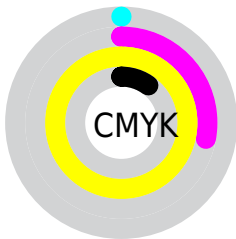
Blue (0%)



Red (34%)

Yellow (90%)

Blue (0%)

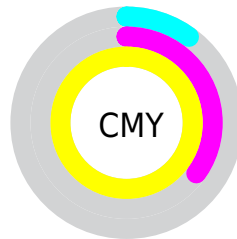


Cyan (0%)

Magenta (28%)

Yellow (100%)

Black (10%)



Cyan (10%)

Magenta (35%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9493, 43.9304, 6.0576 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 45.9493, 43.9304, 6.0576 by changing the saturation by 10% instead.





 45.9493, 43.9304,  
6.0576

 45.9493, 43.9304,  
6.0576


361.3241,  
362.4242, 168.9080

 32.4103, 30.6158,  
2.8108


 83.3714, 81.1130,  
18.5301

 21.8321, 20.3065,  
0.9988


 107.9853,  
105.7498, 28.5928

 13.8495, 12.6180,  
0.0000


 137.0214,  
134.9294, 41.7646

 8.0971, 7.1660,  
0.0000

 170.8452,  
169.0363, 58.4639

 4.2095, 3.5662,  
0.0000

 209.8220,  
208.4548, 79.1094

 1.8213, 1.4340,  
0.0000

 254.3172,

 0.5305, 0.2416,

253.5694, 104.1196

0.0000

304.6961,  
304.7644, 133.9129

■ 0.0000, 0.0000,  
0.0000

■ 45.9493, 43.9304,  
6.0576

■ 45.9493, 43.9304,  
6.0576

■ 45.9494, 43.9311,  
6.0577

■ 47.2775, 46.3410,  
7.2591

■ 48.8435, 48.9360,  
9.4369

■ 50.7074, 51.7424,  
12.8986

■ 52.9034, 54.7750,  
17.8215

■ 55.4606, 58.0467,  
24.3547

■ 58.4044, 61.5688,  
32.6289

■ 61.7579, 65.3516,  
42.7613

■ 65.5419, 69.4047,  
54.8589

■ 69.7759, 73.7368,  
69.0204

# Harmonies

## Analogous

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



59.8716, 43.9304, 10.8254



45.9493, 43.9304, 6.0576



33.4251, 43.9304, 7.0546

# Triad

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



45.9493, 43.9304, 6.0576



22.3002, 43.9304, 78.3330



64.5424, 43.9304, 109.7920

# Complementary

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



45.9493, 43.9304, 6.0576



15.9209, 9.2131, 75.0673

# 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.



51.3641, 43.9304, 152.4561



45.9493, 43.9304, 6.0576



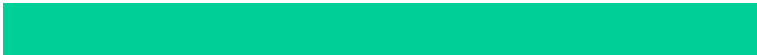
27.7194, 43.9304, 128.6255

# Square

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



45.9493, 43.9304, 6.0576



21.4483, 43.9304, 37.1179



37.8232, 43.9304, 160.7330



71.9947, 43.9304, 60.4334



# Rectangle

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



45.9493, 43.9304, 6.0576



27.3347, 43.9304, 11.2850



37.8232, 43.9304, 160.7330



60.5196, 43.9304, 126.2800

# Sweetspot

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



45.9503, 43.9326, 6.0584



78.7362, 83.3145, 54.3146



33.2641, 17.0386, 6.5205



16.4511, 17.3862, 10.3919



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.



45.9503, 43.9326, 6.0584



58.5576, 55.8952, 7.7025



46.6989, 65.6680, 10.2143



15.2488, 16.1115, 15.2106



26.3774, 25.3290, 3.4988



2.0259, 2.0251, 0.2841



# Inverse Universe

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



15.9209, 9.2131, 75.0673



20.2495, 11.6191, 95.7832



15.4401, 6.3261, 74.5354



13.9039, 14.5292, 18.2159



9.1889, 5.4399, 42.9489



0.7550, 0.5539, 3.1991



# Previews

## White Background



This preview shows how the XYZ color 45.9493, 43.9304, 6.0576 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 45.9493, 43.9304, 6.0576 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 45.9493, 43.9304, 6.0576**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.9493, 43.9304, 6.0576.



This preview shows how white text looks on a background with the XYZ color 45.9493, 43.9304,



# 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

45.9493, 43.9304, 6.0576

### Protanopia

39.8125, 44.1492, 6.8041

### Tritanopia

53.3636, 43.8689, 41.7314

# Trichromacy



## Original Color

45.9493, 43.9304, 6.0576

## Protanomaly

42.0438, 44.1385, 6.5334

## Tritanomaly

48.7601, 42.9868, 19.3630

# Monochromacy



## Original Color

45.9493, 43.9304, 6.0576

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

37.2240, 39.1319, 19.2270

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9493, 43.9304, 6.0576 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(229, 166, 0)` looks like.

```
.text, #text, p{  
    color:rgb(229, 166, 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(229, 166, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 166, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9493, 43.9304, 6.0576 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(229, 166, 0) }
```

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

```
.border{ border-color:rgb(229, 166, 0) }
```

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

Here you see how a box with a 4 pixel rgb(229, 166, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 166, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 166, 0);  
box-shadow:4px 4px 4px 4px rgb(229, 166,  
0) }
```



# Background

The CSS property to change the background color of an element to XYZ 45.9493, 43.9304, 6.0576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 166, 0) }
```

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

```
.background{ background-color: rgb(229,  
166, 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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