

# Converting Colors

XYZ(46.6591, 47.3751, 7.6980)

Have a look what the booklet for  
XYZ(46.6591, 47.3751, 7.6980)  
contains.

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# **Color**

**XYZ(46.6604, 47.3707,  
7.7211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E0B11B
RGB	224, 177, 27
RGB Percent	88%, 69%, 11%
CMY	0.1216, 0.3059, 0.8941
CMYK	0.00, 0.21, 0.88, 0.12
HSL	46°, 78%, 49%
HSV	46°, 88%, 88%
XYZ	46.6604, 47.3707, 7.7211
YIQ	173.9530, 76.1620, -36.6860

# Conversions

## Conversions Part 2

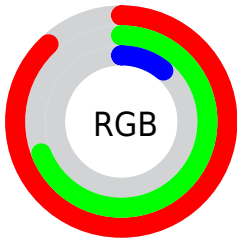
<b>Format</b>	<b>Color</b>
<b>RYB</b>	89, 224, 27
Decimal	14725403
CIELab	74.43, 4.66, 73.13
CIELCh	74, 73.274, 86.350
Yxy	47.3707, 0.4586, 0.4655
Android (android.graphics.Color)	4292915483 (0xFFE0B11B)
YUV	173.9530, -72.4478, 43.8912
Hunter-Lab	68.8264, 0.5668, 41.5272

# Details

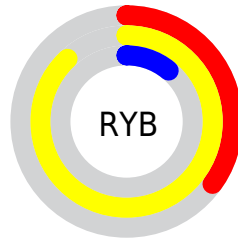
The XYZ color **46.6604, 47.3707, 7.7211** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **16.3555, 10.5127, 71.6875**, and the grayscale version is **40.5426, 42.6540, 46.4502**.

A 20% lighter version of the original color is **71.9421, 79.7114, 21.2669**, and **22.6435, 22.5597, 3.1610** is the 20% darker color. If you saturate the color by 10%, you get **45.4538, 45.2340, 6.4677**, and if you desaturate by 10%, it is **48.1029, 49.6717, 10.0034**.

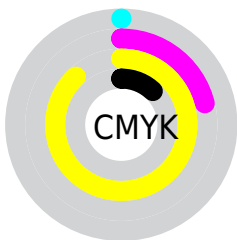
# Distribution



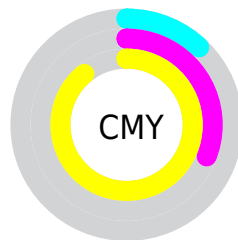
- Red (88%)
- Green (69%)
- Blue (11%)



- Red (35%)
- Yellow (88%)
- Blue (11%)



- Cyan (0%)
- Magenta (21%)
- Yellow (88%)
- Black (12%)




- Cyan (12%)
- Magenta (31%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.6604, 47.3707, 7.7211 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 46.6604, 47.3707, 7.7211 by changing the saturation by 10% instead.





 46.6604, 47.3707,  
7.7211

 46.6604, 47.3707,  
7.7211


364.1289,  
376.2923, 183.3800

 32.9741, 33.3288,  
3.8318


 84.4283, 86.2667,  
21.9469

 22.2657, 22.3784,  
1.5335


 109.2406,  
111.8896, 33.1205


 14.1700, 14.1352,  
0.2427


 138.4923,  
142.1416, 47.5593

 8.3215, 8.2148,  
0.0000

 172.5488,  
177.4071, 65.6818

 4.3549, 4.2327,  
0.0000

 211.7753,  
218.0706, 87.9066

 1.9048, 1.8046,  
0.0000

 256.5372,

 0.5796, 0.4900,

264.5163, 114.6522

0.0000

307.2000,  
317.1287, 146.3371

■ 0.0000, 0.0000,  
0.0000

■ 46.6604, 47.3707,  
7.7211

■ 46.6604, 47.3707,  
7.7211

■ 45.4538, 45.2340,  
6.4677

■ 48.1029, 49.6717,  
10.0034

■ 45.2207, 44.8082,  
6.2655

■ 49.8214, 52.1481,  
13.5379

■ 51.8481, 54.8153,  
18.4865

■ 54.2092, 57.6847,  
24.9862

■ 56.9283, 60.7662,  
33.1578

■ 60.0263, 64.0689,  
43.1100

■ 63.5226, 67.6014,  
54.9423

■ 67.4350, 71.3713,  
68.7469

■ 71.7802, 75.3861,  
84.6097

# Harmonies

## Analogous

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



60.6117, 47.3707, 11.6366



46.6604, 47.3707, 7.7211



34.6680, 47.3707, 10.0038

# Triad

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



46.6604, 47.3707, 7.7211



25.8879, 47.3707, 91.0588



69.6429, 47.3707, 103.2815

# Complementary

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



46.6604, 47.3707, 7.7211



16.3555, 10.5127, 71.6875

# 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.



57.2618, 47.3707, 148.0442



46.6604, 47.3707, 7.7211



32.3686, 47.3707, 138.8893

# Square

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



46.6604, 47.3707, 7.7211



24.1401, 47.3707, 47.0861



43.4272, 47.3707, 163.5167



75.4175, 47.3707, 56.3482



# Rectangle

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



46.6604, 47.3707, 7.7211



29.0369, 47.3707, 15.9047



43.4272, 47.3707, 163.5167



66.0106, 47.3707, 119.8213

# Sweetspot

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



46.6615, 47.3730, 7.7220



81.3131, 86.7618, 60.4346



32.4457, 17.1568, 8.4858



17.0743, 18.2283, 11.8456



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.



46.6615, 47.3730, 7.7220



60.5694, 59.9187, 8.3731



44.4768, 62.4752, 10.7522



14.5802, 15.4464, 14.5198



26.4150, 26.2679, 3.6780



1.8985, 1.9558, 0.2774



# Inverse Universe

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



16.3555, 10.5127, 71.6875



19.7098, 10.5395, 95.6033



16.8474, 7.7130, 71.1211



13.2162, 13.7715, 17.3493



8.6586, 4.7867, 41.5159



0.6690, 0.4695, 2.9006



# Previews

## White Background



This preview shows how the XYZ color 46.6604, 47.3707, 7.7211 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 46.6604, 47.3707, 7.7211 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 46.6604, 47.3707, 7.7211**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.6604, 47.3707, 7.7211.



This preview shows how white text looks on a background with the XYZ color 46.6604, 47.3707,



# 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

46.6604, 47.3707, 7.7211

### Protanopia

43.0944, 47.6351, 8.0856

### Deuteranopia

48.3254, 47.3548, 7.8217



## Tritanopia

54.9952, 47.4082, 47.8471

# Trichromacy



## Original Color

46.6604, 47.3707, 7.7211

## Protanomaly

44.1740, 47.2777, 7.8959

## Deuteranomaly

47.5467, 47.2426, 7.7752

## Tritanomaly

50.3339, 46.6041, 24.7550

# Monochromacy



## Original Color

46.6604, 47.3707, 7.7211

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

40.5194, 43.2469, 24.3010

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.6604, 47.3707, 7.7211 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(224, 177, 27)` looks like.

```
.text, #text, p{  
    color:rgb(224, 177, 27)  
}
```

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(224, 177, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 177, 27) }
```

## Border

The CSS property to change the border of an element to XYZ 46.6604, 47.3707, 7.7211 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(224, 177, 27) }
```



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

```
.border{ border-color:rgb(224, 177, 27) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 177, 27)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 177, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 177, 27);  
box-shadow:4px 4px 4px 4px rgb(224, 177,  
27) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.6604, 47.3707, 7.7211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 177, 27) }
```

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

```
.background{ background-color: rgb(224,  
177, 27) }
```

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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