

# Converting Colors

XYZ(44.7157, 47.3212, 6.7773)

Have a look what the booklet for  
XYZ(44.7157, 47.3212, 6.7773)  
contains.

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# Color

**XYZ(44.6402, 47.2414,  
6.7657)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D8B400
RGB	216, 180, 0
RGB Percent	85%, 71%, 0%
CMY	0.1529, 0.2941, 0.9999
CMYK	0.00, 0.17, 1.00, 0.15
HSL	50°, 100%, 42%
HSV	50°, 100%, 85%
XYZ	44.6402, 47.2414, 6.7657
YIQ	170.2440, 79.2360, -48.3480

# Conversions

## Conversions Part 2

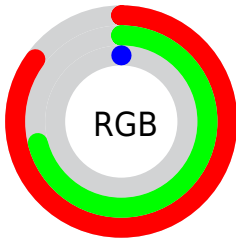
Format	Color
R <sub>Y</sub> B	43, 216, 0
Decimal	14201856
CIE Lab	74.34, -0.76, 76.55
CIE LCh	74, 76.553, 90.567
Yxy	47.2414, 0.4525, 0.4789
Android (android.graphics.Color)	4292391936 (0xFFD8B400)
YUV	170.2440, -83.9303, 40.1280
Hunter-Lab	68.7324, -4.3498, 42.2764

# Details

The XYZ color **44.6402, 47.2414, 6.7657** 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 **13.0261, 6.2205, 65.4795**, and the grayscale version is **38.7108, 40.7268, 44.3515**.

A 20% lighter version of the original color is **72.3963, 81.2558, 19.4577**, and **21.4295, 22.5063, 3.2147** is the 20% darker color. If you saturate the color by 10%, you get **44.6405, 47.2424, 6.7659**, and if you desaturate by 10%, it is **45.5185, 48.7726, 7.7549**.

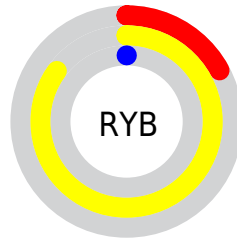
# Distribution



Red (85%)

Green (71%)

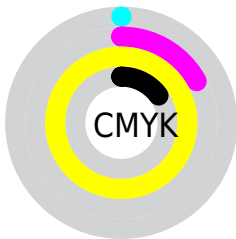
Blue (0%)



Red (17%)

Yellow (85%)

Blue (0%)

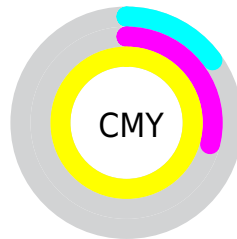


Cyan (0%)

Magenta (17%)

Yellow (100%)

Black (15%)



Cyan (15%)

Magenta (29%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.6402, 47.2414, 6.7657 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 44.6402, 47.2414, 6.7657 by changing the saturation by 10% instead.



44.6402, 47.2414,  
6.7657

44.6402, 47.2414,  
6.7657

356.1227,  
375.7773, 175.2588

31.3742, 33.2265,  
3.2398

81.4206, 86.0738,  
20.0051

21.0372, 22.3000,  
1.2183

105.6657,  
111.6602, 30.5556

13.2638, 14.0775,  
0.0000

134.3013,  
141.8725, 44.2848

7.6887, 8.1746,  
0.0000

167.6926,  
177.0952, 61.6111

3.9465, 4.2069,  
0.0000

206.2050,  
217.7126, 82.9531

1.6719, 1.7899,  
0.0000

250.2040,

0.4386, 0.4809,

264.1092, 108.7294

0.0000

300.0547,  
316.6693, 139.3584

■ 0.0000, 0.0000,  
0.0000

■ 44.6402, 47.2414,  
6.7657

■ 44.6402, 47.2414,  
6.7657

■ 44.6405, 47.2424,  
6.7659

■ 45.5185, 48.7726,  
7.7549

■ 46.5727, 50.4026,  
9.5806

■ 47.8559, 52.1549,  
12.5181

■ 49.3973, 54.0413,  
16.7202

■ 51.2215, 56.0720,  
22.3157

■ 53.3501, 58.2557,  
29.4176

■ 55.8024, 60.6004,  
38.1270

■ 58.5962, 63.1134,  
48.5366

■ 61.7477, 65.8014,  
60.7319

# Harmonies

## Analogous

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



59.2122, 47.2414, 9.6251



44.6402, 47.2414, 6.7657



32.7364, 47.2414, 9.8726

# Triad

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



44.6402, 47.2414, 6.7657



25.7422, 47.2414, 100.4472



72.1385, 47.2414, 98.4316

# Complementary

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



44.6402, 47.2414, 6.7657



13.0261, 6.2205, 65.4795

# 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.



59.7592, 47.2414, 148.2695



44.6402, 47.2414, 6.7657



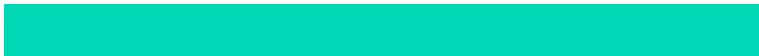
33.1051, 47.2414, 149.7936

# Square

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



44.6402, 47.2414, 6.7657



23.2861, 47.2414, 52.1914



45.1639, 47.2414, 170.6472



76.9275, 47.2414, 50.6916



# Rectangle

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



44.6402, 47.2414, 6.7657



27.3969, 47.2414, 16.7390



45.1639, 47.2414, 170.6472



68.6170, 47.2414, 116.2121

# Sweetspot

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



44.6413, 47.2437, 6.7666



81.1531, 88.1483, 55.1203



28.6376, 14.7267, 3.0035



17.0334, 18.5507, 10.5860



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.



44.6413, 47.2437, 6.7666



64.9096, 68.5991, 9.8199



36.0585, 55.0413, 8.7241



13.2885, 14.1512, 13.1918



26.4912, 28.0996, 4.0275



1.6457, 1.7906, 0.2589



# Inverse Universe

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



13.0261, 6.2205, 65.4795



18.8957, 8.9114, 95.3319



15.0682, 6.3364, 65.3943



11.9082, 12.3398, 15.6917



7.7629, 3.7877, 38.7751



0.5209, 0.3338, 2.3563



# Previews

## White Background



This preview shows how the XYZ color 44.6402, 47.2414, 6.7657 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

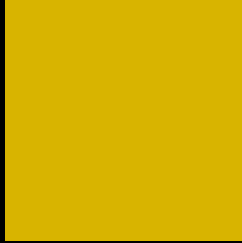
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.6402, 47.2414, 6.7657 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 44.6402, 47.2414, 6.7657**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.6402, 47.2414, 6.7657.



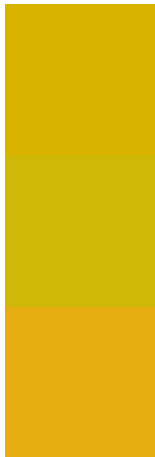
This preview shows how white text looks on a background with the XYZ color 44.6402, 47.2414,



# 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

44.6402, 47.2414, 6.7657

### Protanopia

42.9164, 47.5639, 7.1485

### Deuteranopia

48.2086, 47.3080, 7.2066



## Tritanopia

53.4210, 47.1015, 49.4559

# Trichromacy



## Original Color

44.6402, 47.2414, 6.7657

## Protanomaly

43.5392, 47.5796, 7.0326

## Deuteranomaly

46.9557, 47.2460, 6.9924

## Tritanomaly

47.9712, 46.2724, 22.6228

# Monochromacy



## Original Color

44.6402, 47.2414, 6.7657

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

38.3363, 41.9196, 20.2581

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.6402, 47.2414, 6.7657 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(216, 180, 0)` looks like.

```
.text, #text, p{  
    color:rgb(216, 180, 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(216, 180, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 180, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 44.6402, 47.2414, 6.7657 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(216, 180, 0) }
```



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

```
.border{ border-color:rgb(216, 180, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(216, 180, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 180, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 180, 0);  
box-shadow:4px 4px 4px 4px rgb(216, 180,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.6402, 47.2414, 6.7657 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 180, 0) }
```

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

```
.background{ background-color: rgb(216,  
180, 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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