

# Converting Colors

XYZ(45.3658, 47.2307, 6.7254)

Have a look what the booklet for  
XYZ(45.3658, 47.2307, 6.7254)  
contains.

<b>XYZ(45.3335, 47.3003, 6.7405)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(45.3335, 47.3003,  
6.7405)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DBB300
RGB	219, 179, 0
RGB Percent	86%, 70%, 0%
CMY	0.1412, 0.2980, 0.9999
CMYK	0.00, 0.18, 1.00, 0.14
HSL	49°, 100%, 43%
HSV	49°, 100%, 86%
XYZ	45.3335, 47.3003, 6.7405
YIQ	170.5540, 81.2990, -47.1890

# Conversions

## Conversions Part 2

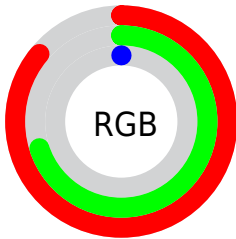
Format	Color
R <sub>Y</sub> B	49, 219, 0
Decimal	14398208
CIE Lab	74.38, 1.08, 76.71
CIE LCh	74, 76.720, 89.191
Yxy	47.3003, 0.4562, 0.4760
Android (android.graphics.Color)	4292588288 (0xFFDDBB300)
YUV	170.5540, -84.0831, 42.4871
Hunter-Lab	68.7752, -2.6975, 42.3318

# Details

The XYZ color **45.3335, 47.3003, 6.7405** 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 **13.5454, 6.6328, 67.5835**, and the grayscale version is **38.8666, 40.8907, 44.5300**.

A 20% lighter version of the original color is **72.1108, 80.6848, 19.3625**, and **21.8874, 22.5497, 3.1989** is the 20% darker color. If you saturate the color by 10%, you get **45.3338, 47.3013, 6.7407**, and if you desaturate by 10%, it is **46.2918, 48.9869, 7.7704**.

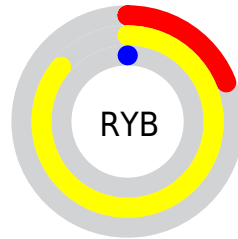
# Distribution



Red (86%)

Green (70%)

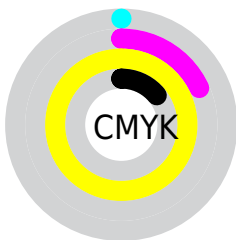
Blue (0%)



Red (19%)

Yellow (86%)

Blue (0%)

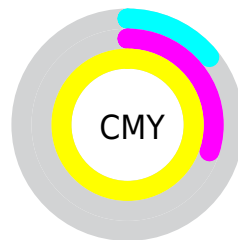


Cyan (0%)

Magenta (18%)

Yellow (100%)

Black (14%)



Cyan (14%)

Magenta (30%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3335, 47.3003, 6.7405 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 45.3335, 47.3003, 6.7405 by changing the saturation by 10% instead.





 45.3335, 47.3003,  
6.7405

 45.3335, 47.3003,  
6.7405


358.8836,  
376.0119, 175.0380


 31.9226, 33.2731,  
3.2244


 82.4546, 86.1617,  
19.9531

 21.4576, 22.3358,  
1.2103


 106.8956,  
111.7647, 30.4867

 13.5733, 14.1038,  
0.0000


 135.7439,  
141.9951, 44.1965

 7.9042, 8.1929,  
0.0000

 169.3649,  
177.2373, 61.5011

 4.0850, 4.2186,  
0.0000

 208.1240,  
217.8757, 82.8190

 1.7503, 1.7966,  
0.0000

 252.3866,

 0.4875, 0.4851,

264.2947, 108.5688

0.0000

302.5180,  
316.8786, 139.1689

■ 0.0000, 0.0000,  
0.0000

■ 45.3335, 47.3003,  
6.7405

■ 45.3335, 47.3003,  
6.7405

■ 45.3338, 47.3013,  
6.7407

■ 46.2918, 48.9869,  
7.7704

■ 47.4358, 50.7833,  
9.6669

■ 48.8201, 52.7137,  
12.7123

■ 50.4749, 54.7904,  
17.0648

■ 52.4258, 57.0240,  
22.8579

■ 54.6950, 59.4236,  
30.2083

■ 57.3027, 61.9976,  
39.2208

■ 60.2673, 64.7536,  
49.9913

■ 63.6056, 67.6987,  
62.6081

# Harmonies

## Analogous

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



59.9795, 47.3003, 9.9011



45.3335, 47.3003, 6.7405



33.2076, 47.3003, 9.5477

# Triad

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



45.3335, 47.3003, 6.7405



25.5280, 47.3003, 98.2239



71.8461, 47.3003, 101.1121

# Complementary

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



45.3335, 47.3003, 6.7405



13.5454, 6.6328, 67.5835

# 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.



59.1960, 47.3003, 150.5404



45.3335, 47.3003, 6.7405



32.6797, 47.3003, 148.3558

# Square

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



45.3335, 47.3003, 6.7405



23.2858, 47.3003, 50.4356



44.5836, 47.3003, 171.1498



77.0885, 47.3003, 52.5833



# Rectangle

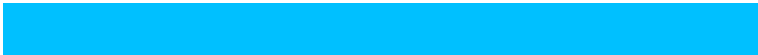
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.3335, 47.3003, 6.7405



27.7015, 47.3003, 16.0687



44.5836, 47.3003, 171.1498



68.2067, 47.3003, 118.9264

# Sweetspot

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



45.3346, 47.3026, 6.7414



80.7900, 87.4221, 54.9992



29.5991, 15.2146, 3.3988



16.9457, 18.3752, 10.5567



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.



45.3346, 47.3026, 6.7414



63.9006, 66.5812, 9.4835



37.8456, 57.1139, 9.0299



13.9495, 14.8383, 13.8544



26.9553, 28.1962, 4.0217



1.8000, 1.9341, 0.2784



# Inverse Universe

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



13.5454, 6.6328, 67.5835



19.0494, 9.2189, 95.3831



15.2662, 6.3933, 67.4466



12.5301, 12.9999, 16.5010



8.0892, 4.0479, 40.0934



0.5822, 0.3784, 2.6168



# Previews

## White Background



This preview shows how the XYZ color 45.3335, 47.3003, 6.7405 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 45.3335, 47.3003, 6.7405 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 45.3335, 47.3003, 6.7405**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3335, 47.3003, 6.7405.



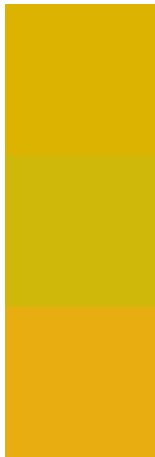
This preview shows how white text looks on a background with the XYZ color 45.3335, 47.3003,



# 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

45.3335, 47.3003, 6.7405

### Protanopia

42.9219, 47.5661, 7.1774

### Deuteranopia

48.5159, 47.4684, 7.1356



## Tritanopia

53.7678, 47.0211, 48.8899

# Trichromacy



## Original Color

45.3335, 47.3003, 6.7405

## Protanomaly

43.6248, 47.3179, 7.0063

## Deuteranomaly

47.2643, 47.4057, 6.9757

## Tritanomaly

48.6515, 46.3483, 22.3015

# Monochromacy



## Original Color

45.3335, 47.3003, 6.7405

## Achromatopsia

38.7082, 40.7240, 44.3485

## Achromatomaly

38.6354, 42.0676, 20.5516

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3335, 47.3003, 6.7405 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(219, 179, 0)` looks like.

```
.text, #text, p{  
    color:rgb(219, 179, 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(219, 179, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 179, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3335, 47.3003, 6.7405 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(219, 179, 0) }
```



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

```
.border{ border-color:rgb(219, 179, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 179, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 179, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 179, 0);  
box-shadow:4px 4px 4px 4px rgb(219, 179,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3335, 47.3003, 6.7405 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 179, 0) }
```

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

```
.background{ background-color: rgb(219,  
179, 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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