

# Converting Colors

XYZ(47.6916, 48.4942, 15.4410)

Have a look what the booklet for  
XYZ(47.6916, 48.4942, 15.4410)  
contains.

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# Color

**XYZ(47.7797, 48.6705,  
15.4704)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDB455
RGB	221, 180, 85
RGB Percent	87%, 71%, 33%
CMY	0.1333, 0.2941, 0.6667
CMYK	0.00, 0.19, 0.62, 0.13
HSL	42°, 67%, 60%
HSV	42°, 62%, 87%
XYZ	47.7797, 48.6705, 15.4704
YIQ	181.4290, 54.9310, -20.8530

# Conversions

## Conversions Part 2

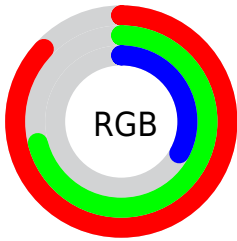
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 221, 85
Decimal	14529621
CIELab	75.25, 4.26, 52.96
CIELCh	75, 53.129, 85.400
Yxy	48.6705, 0.4269, 0.4349
Android (android.graphics.Color)	4292719701 (0xFFDDB455)
YUV	181.4290, -47.5395, 34.7038
Hunter-Lab	69.7642, 0.1625, 35.6873

# Details

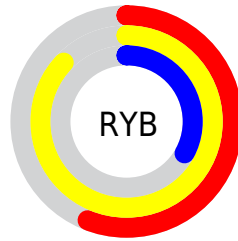
The XYZ color **47.7797, 48.6705, 15.4704** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **24.2580, 22.0726, 71.3881**, and the grayscale version is **44.3832, 46.6945, 50.8504**.

A 20% lighter version of the original color is **75.8229, 83.0859, 36.0856**, and **23.0841, 23.3292, 4.6528** is the 20% darker color. If you saturate the color by 10%, you get **45.7228, 45.7492, 11.1090**, and if you desaturate by 10%, it is **50.1777, 51.8355, 21.2988**.

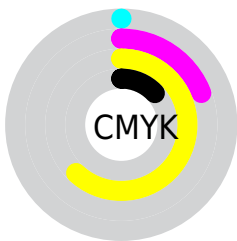
# Distribution



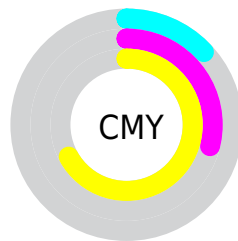
- Red (87%)
- Green (71%)
- Blue (33%)



- Red (56%)
- Yellow (87%)
- Blue (33%)



- Cyan (0%)
- Magenta (19%)
- Yellow (62%)
- Black (13%)



- Cyan (13%)
- Magenta (29%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7797, 48.6705, 15.4704 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 47.7797, 48.6705, 15.4704 by changing the saturation by 10% instead.





 47.7797, 48.6705,  
15.4704


 47.7797, 48.6705,  
15.4704


368.5154,  
381.4437, 237.9341

 33.8630, 34.3582,  
8.9999


 86.0880, 88.2019,  
36.4302


 22.9508, 23.1689,  
4.6443


 111.2103,  
114.1897, 51.7566

 14.6776, 14.7183,  
1.9851


 140.7985,  
144.8382, 70.8721

 8.6783, 8.6219,  
0.5461

 175.2179,  
180.5317, 94.1951

 4.5874, 4.4954,  
0.0000

 214.8340,  
221.6546, 122.1443

 2.0395, 1.9544,  
0.0000

260.0120,

 0.6560, 0.5808,

268.5913, 155.1382

0.0000

311.1174,  
321.7262, 193.5953

■ 0.0000, 0.0000,  
0.0000

■ 47.7797, 48.6705,  
15.4704

■ 47.7797, 48.6705,  
15.4704

■ 45.7228, 45.7492,  
11.1090

■ 50.1777, 51.8355,  
21.2988

■ 43.9761, 43.0521,  
8.0719

■ 52.9373, 55.2480,  
28.7134

■ 42.5081, 40.5670,  
6.1927

■ 56.0812, 58.9205,  
37.8241

■ 41.4376, 38.6100,  
5.2685

■ 59.6291, 62.8621,  
48.7304

■ 63.5991, 67.0815,  
61.5241

■ 68.0082, 71.5867,  
76.2903

■ 72.8725, 76.3854,  
93.1094

■ 77.0921, 81.0391,  
106.1867

■ 79.0170, 84.8888,  
106.8283

# Harmonies

## Analogous

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



57.7427, 48.6705, 19.9465



47.7797, 48.6705, 15.4704



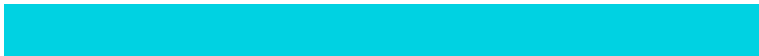
38.6755, 48.6705, 17.7849

# Triad

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



47.7797, 48.6705, 15.4704



31.3074, 48.6705, 79.5206



63.4707, 48.6705, 89.7019

# Complementary

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



47.7797, 48.6705, 15.4704



24.2580, 22.0726, 71.3881

# 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.



54.7761, 48.6705, 117.7948



47.7797, 48.6705, 15.4704



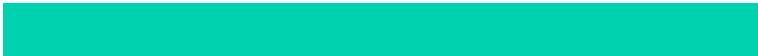
36.4101, 48.6705, 110.6121

# Square

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



47.7797, 48.6705, 15.4704



29.9764, 48.6705, 48.8036



44.7726, 48.6705, 126.5480



67.5757, 48.6705, 57.4175



# Rectangle

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



47.7797, 48.6705, 15.4704



34.1542, 48.6705, 23.5279



44.7726, 48.6705, 126.5480



60.9333, 48.6705, 100.3387

# Sweetspot

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



47.7808, 48.6728, 15.4714



84.2650, 88.8763, 73.1001



36.9681, 23.4298, 23.0196



17.7029, 18.6643, 14.5870



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.



47.7808, 48.6728, 15.4714



62.4538, 62.1000, 13.8956



50.2784, 64.1132, 18.3200



13.8137, 14.5667, 13.8092



24.1756, 22.6367, 3.0951



1.6405, 1.6150, 0.2253



# Inverse Universe

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



24.2580, 22.0726, 71.3881



27.4223, 22.5993, 97.5245



22.7221, 15.0287, 70.1094



12.6571, 13.2539, 16.5433



8.8216, 5.5126, 40.3375



0.6460, 0.5061, 2.6381



# Previews

## White Background



This preview shows how the XYZ color 47.7797, 48.6705, 15.4704 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 47.7797, 48.6705, 15.4704 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 47.7797, 48.6705, 15.4704**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.7797, 48.6705, 15.4704.



This preview shows how white text looks on a background with the XYZ color 47.7797, 48.6705,

15.4704.

# 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

47.7797, 48.6705, 15.4704

### Protanopia

44.7328, 48.9277, 16.1032

### Deuteranopia

49.7150, 48.7742, 15.5982



## Tritanopia

54.9446, 48.4113, 50.7044

# Trichromacy



## Original Color

47.7797, 48.6705, 15.4704

## Protanomaly

45.6842, 48.8017, 15.8160

## Deuteranomaly

48.9641, 48.6814, 15.6199

## Tritanomaly

51.5741, 48.1625, 34.1818

# Monochromacy



## Original Color

47.7797, 48.6705, 15.4704

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

44.4771, 46.8588, 33.8946

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7797, 48.6705, 15.4704 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(221, 180, 85)` looks like.

```
.text, #text, p{  
    color:rgb(221, 180, 85)  
}
```

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(221, 180, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 180, 85) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7797, 48.6705, 15.4704 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(221, 180, 85) }
```



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

```
.border{ border-color:rgb(221, 180, 85) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 180, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 180, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 180, 85);  
box-shadow:4px 4px 4px 4px rgb(221, 180,  
85) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7797, 48.6705, 15.4704 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 180, 85) }
```

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

```
.background{ background-color: rgb(221,  
180, 85) }
```

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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