

# Converting Colors

XYZ(64.6409, 74.2540, 13.4942)

Have a look what the booklet for  
XYZ(64.6409, 74.2540, 13.4942)  
contains.

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# Color

**XYZ(64.8545, 74.5613,  
13.5583)**

# Conversions

Conversions Part 1	
Format	Color
Hex	F2E42E
RGB	242, 228, 46
RGB Percent	95%, 89%, 18%
CMY	0.0510, 0.1059, 0.8196
CMYK	0.00, 0.06, 0.81, 0.05
HSL	56°, 88%, 56%
HSV	56°, 81%, 95%
XYZ	64.8545, 74.5613, 13.5583
YIQ	211.4380, 66.7660, -53.6340

# Conversions

## Conversions Part 2

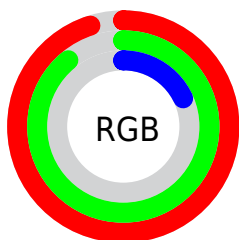
Format	Color
<a href="#">RYB</a>	<a href="#">61, 242, 46</a>
Decimal	<a href="#">15918126</a>
CIELab	<a href="#">89.19, -13.21, 81.48</a>
CIELCh	<a href="#">89, 82.548, 99.205</a>
Yxy	<a href="#">74.5613, 0.4240, 0.4874</a>
Android (android.graphics.Color)	<a href="#">4294108206</a> (0xFFFF2E42E)
YUV	<a href="#">211.4380, -81.5609, 26.8029</a>
Hunter-Lab	<a href="#">86.3489, -17.0436, 51.1346</a>

# Details

The XYZ color **64.8545, 74.5613, 13.5583** is a light color, and the websafe version is hex **CCCC00**. The color can be described as light washed yellow. A complement of this color would be **18.7699, 10.2236, 84.9879**, and the grayscale version is **62.7012, 65.9666, 71.8376**.

A 20% lighter version of the original color is **79.7603, 93.8841, 28.3856**, and **34.2350, 39.8322, 5.8840** is the 20% darker color. If you saturate the color by 10%, you get **64.0329, 73.4788, 11.5573**, and if you desaturate by 10%, it is **65.9527, 75.7678, 16.9775**.

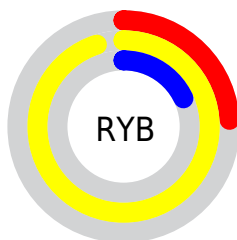
# Distribution



Red (95%)

Green (89%)

Blue (18%)



Red (24%)

Yellow (95%)

Blue (18%)

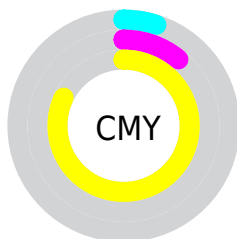


Cyan (0%)

Magenta (6%)

Yellow (81%)

Black (5%)



Cyan (5%)

Magenta (11%)


Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.8545, 74.5613, 13.5583 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 64.8545, 74.5613, 13.5583 by changing the saturation by 10% instead.





 64.8545, 74.5613,  
13.5583

 64.8545, 74.5613,  
13.5583


431.8224,  
476.4083, 225.7975

 47.6074, 55.2536,  
7.6789


 110.9075,  
125.6912, 33.0090


 33.7260, 39.6048,  
3.8054


 140.4441,  
158.2821, 47.4173


 22.8451, 27.2305,  
1.5192


 174.8079,  
196.0695, 65.5057

 14.5992, 17.7464,  
0.2322

 214.3643,  
239.4379, 87.6927

 8.6231, 10.7681,  
0.0000

 259.4786,  
288.7716, 114.3969

 4.5513, 5.9111,  
0.0000


310.5161,


 2.0185, 2.7911,


344.4549, 146.0367


0.0000


367.8423,  
406.8724, 183.0307

 0.6443, 1.0237,  
0.0000

 0.0000, 0.0000,  
0.0000


 64.8545, 74.5613,  
13.5583


 64.8545, 74.5613,  
13.5583


 64.0329, 73.4788,  
11.5573


 65.9527, 75.7678,  
16.9775


 63.4677, 72.5772,  
10.6637

 67.3619, 77.1034,  
22.0181


 69.1166, 78.5850,  
28.8552


 71.2458, 80.2239,  
37.6402

 73.7751, 82.0306,  
48.5083

 76.7278, 84.0144,  
61.5827

 80.1257, 86.1839,  
76.9772

 83.9888, 88.5473,  
94.7976

 86.8850, 90.5318,  
107.5028

# Harmonies

## Analogous

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



85.5178, 74.5613, 15.3923



64.8545, 74.5613, 13.5583



49.1084, 74.5613, 22.0184

# Triad

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



64.8545, 74.5613, 13.5583



44.9064, 74.5613, 173.3528



113.5639, 74.5613, 127.2433

# Complementary

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



64.8545, 74.5613, 13.5583



18.7699, 10.2236, 84.9879

# 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.



98.2598, 74.5613, 200.9464



64.8545, 74.5613, 13.5583



57.9952, 74.5613, 235.1753

# Square

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



64.8545, 74.5613, 13.5583



39.1142, 74.5613, 100.2418



77.2428, 74.5613, 247.1460



116.3567, 74.5613, 64.7101



# Rectangle

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



64.8545, 74.5613, 13.5583



42.5467, 74.5613, 36.6279



77.2428, 74.5613, 247.1460



109.5905, 74.5613, 152.1922

# Sweetspot

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



64.8562, 74.5648, 13.5598



85.3371, 93.9099, 64.5499



38.4739, 21.1833, 6.6676



18.0109, 19.9295, 12.6879



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.



64.8562, 74.5648, 13.5598



71.6648, 82.0425, 12.2783



46.8098, 71.2094, 13.8633



17.0207, 18.2545, 16.7761



34.1386, 39.0752, 5.7430



2.8687, 3.3081, 0.4873



# Inverse Universe

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



18.7699, 10.2236, 84.9879



18.5000, 7.9779, 95.1726



25.8569, 12.9292, 85.1366



14.9879, 15.4099, 19.9061



8.7552, 3.7346, 45.3873

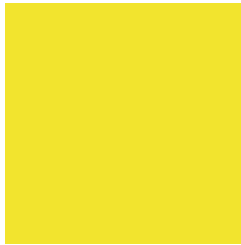


0.7597, 0.3735, 3.7863



# Previews

## White Background



This preview shows how the XYZ color 64.8545, 74.5613, 13.5583 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

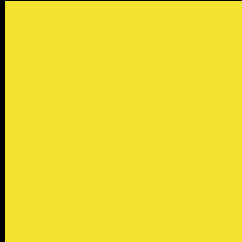
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.8545, 74.5613, 13.5583 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 64.8545, 74.5613, 13.5583**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.8545, 74.5613, 13.5583.



This preview shows how white text looks on a background with the XYZ color 64.8545, 74.5613,



# 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

64.8545, 74.5613, 13.5583

### Protanopia

67.5438, 74.7353, 13.3480

### Deuteranopia

73.1943, 74.1560, 46.5322



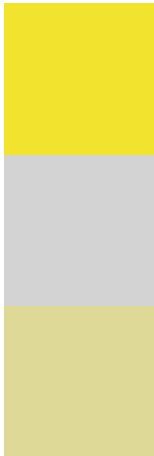
## Tritanopia

79.1771, 74.5056, 84.3367

# Trichromacy

	<b>Original Color</b> 64.8545, 74.5613, 13.5583
	<b>Protanomaly</b> 66.3814, 74.5386, 13.3713
	<b>Deuteranomaly</b> 69.0585, 73.9717, 29.0505
	<b>Tritanomaly</b> 71.0173, 73.0754, 44.5444

# Monochromacy

	<b>Original Color</b> 64.8545, 74.5613, 13.5583
	<b>Achromatopsia</b> 61.9161, 65.1406, 70.9381
	<b>Achromatomaly</b> 60.5230, 67.3897, 39.0958

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.8545, 74.5613, 13.5583 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(242, 228, 46)` looks like.

```
.text, #text, p{  
    color:rgb(242, 228, 46)  
}
```

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(242, 228, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 228, 46) }
```

## Border

The CSS property to change the border of an element to XYZ 64.8545, 74.5613, 13.5583 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(242, 228, 46) }
```



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

```
.border{ border-color:rgb(242, 228, 46) }
```

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

Here you see how a box with a 4 pixel rgb(242, 228, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 228, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 228, 46);  
box-shadow:4px 4px 4px 4px rgb(242, 228,  
46) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.8545, 74.5613, 13.5583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 228, 46) }
```

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

```
.background{ background-color: rgb(242,  
228, 46) }
```

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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