

# Converting Colors

XYZ(63.9440, 75.6707, 5.4798)

Have a look what the booklet for  
XYZ(63.9440, 75.6707, 5.4798)  
contains.

<b>XYZ(64.8515, 75.8526, 11.2230)</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> .....	30

# **Color**

**XYZ(64.8515, 75.8526,  
11.2230)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F1E700
RGB	241, 231, 0
RGB Percent	95%, 91%, 0%
CMY	0.0549, 0.0941, 0.9999
CMYK	0.00, 0.04, 1.00, 0.05
HSL	58°, 100%, 47%
HSV	58°, 100%, 95%
XYZ	64.8515, 75.8526, 11.2230
YIQ	207.6560, 80.1110, -69.7210

# Conversions

## Conversions Part 2

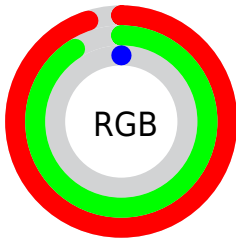
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	10, 241, 0
Decimal	15853312
CIE Lab	89.79, -15.81, 88.62
CIE LCh	90, 90.025, 100.118
Yxy	75.8526, 0.4269, 0.4993
Android (android.graphics.Color)	4294043392 (0xFFFF1E700)
YUV	207.6560, -102.3744, 29.2427
Hunter-Lab	87.0934, -19.4987, 53.3252

# Details

The XYZ color **64.8515, 75.8526, 11.2230** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light saturated yellow. A complement of this color would be **15.9863, 6.5687, 83.6436**, and the grayscale version is **60.3412, 63.4837, 69.1337**.

A 20% lighter version of the original color is **78.8883, 93.5353, 23.7938**, and **34.3477, 40.7540, 6.0560** is the 20% darker color. If you saturate the color by 10%, you get **64.8526, 75.8553, 11.2234**, and if you desaturate by 10%, it is **65.2998, 76.4837, 12.1926**.

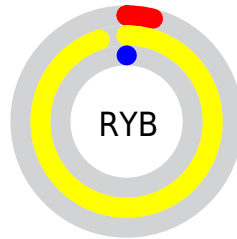
# Distribution



Red (95%)

Green (91%)

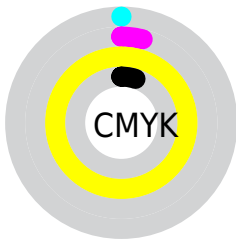
Blue (0%)



Red (4%)

Yellow (95%)

Blue (0%)

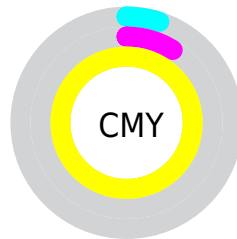


Cyan (0%)

Magenta (4%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (9%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.8515, 75.8526, 11.2230 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 64.8515, 75.8526, 11.2230 by changing the saturation by 10% instead.





 64.8515, 75.8526,  
11.2230

 64.8515, 75.8526,  
11.2230


431.8118,  
480.8430, 209.9832

 47.6049, 56.3116,  
6.1010


 110.9032,  
127.5185, 28.7147


 33.7241, 40.4528,  
2.8368


 140.4391,  
160.4123, 41.9215


 22.8436, 27.8918,  
1.0119


 174.8021,  
198.5258, 58.6603

 14.5981, 18.2441,  
0.0000

 214.3576,  
242.2434, 79.3496

 8.6223, 11.1254,  
0.0000

 259.4710,  
291.9495, 104.4080

 4.5508, 6.1512,  
0.0000

 310.5076,

 2.0182, 2.9373,

348.0286, 134.2541

0.0000

367.8327,  
410.8649, 169.3063

■ 0.6442, 1.0991,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.8515, 75.8526,  
11.2230

■ 64.8515, 75.8526,  
11.2230

■ 64.8526, 75.8553,  
11.2234

■ 65.2998, 76.4837,  
12.1926

■ 65.9540, 77.1968,  
14.2459

■ 66.8800, 78.0211,  
17.7226

■ 68.1161, 78.9721,  
22.8241

■ 69.6943, 80.0625,  
29.7196

■ 71.6428, 81.3036,  
38.5570

■ 73.9868, 82.7055,  
49.4688

■ 76.7492, 84.2773,  
62.5761

■ 79.9512, 86.0276,  
77.9906

# Harmonies

## Analogous

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



87.6143, 75.8526, 12.7081



64.8515, 75.8526, 11.2230



47.9329, 75.8526, 19.9288

# Triad

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



64.8515, 75.8526, 11.2230



44.1236, 75.8526, 189.1073



120.1672, 75.8526, 131.5517

# Complementary

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



64.8515, 75.8526, 11.2230



15.9863, 6.5687, 83.6436

# 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.



103.2587, 75.8526, 215.8469



64.8515, 75.8526, 11.2230



58.5270, 75.8526, 259.2270

# Square

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



64.8515, 75.8526, 11.2230



37.7000, 75.8526, 105.9902



79.8601, 75.8526, 270.9486



122.8311, 75.8526, 62.9164



# Rectangle

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



64.8515, 75.8526, 11.2230



41.0482, 75.8526, 35.4172



79.8601, 75.8526, 270.9486



115.8182, 75.8526, 159.7282

# Sweetspot

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



64.8532, 75.8562, 11.2245



84.0825, 94.0071, 56.0967



36.3425, 18.7281, 2.0499



17.7442, 19.9724, 10.8229



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.



64.8532, 75.8562, 11.2245



73.7189, 86.2178, 12.7563



41.0594, 67.8612, 10.9354



17.0635, 18.3400, 16.7904



35.1942, 41.1864, 6.0948



2.9451, 3.4610, 0.5128



# Inverse Universe

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



15.9863, 6.5687, 83.6436



18.1648, 7.4497, 95.0883



22.1188, 9.5691, 83.8995



14.9498, 15.3338, 19.8934



8.6925, 3.6092, 45.3664

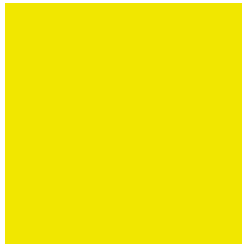


0.7415, 0.3370, 3.7802



# Previews

## White Background



This preview shows how the XYZ color 64.8515, 75.8526, 11.2230 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

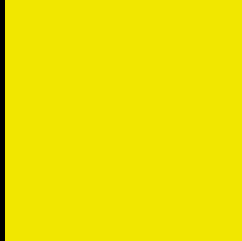
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.8515, 75.8526, 11.2230 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 64.8515, 75.8526, 11.2230

## Background



This preview shows how black text looks on a background with the XYZ color 64.8515, 75.8526, 11.2230.



This preview shows how white text looks on a background with the XYZ color 64.8515, 75.8526,



# 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

64.8515, 75.8526, 11.2230

### Deuteranopia

74.2796, 75.4250, 49.6732

### Tritanopia

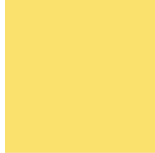
79.9642, 75.6304, 85.9849

# Trichromacy



## Original Color

64.8515, 75.8526, 11.2230



## Deuteranomaly

68.8403, 74.7394, 25.2659



## Tritanomaly

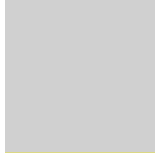
70.5473, 74.1435, 38.1966

# Monochromacy



## Original Color

64.8515, 75.8526, 11.2230



## Achromatopsia

59.9535, 63.0757, 68.6895



## Achromatomaly

58.2359, 65.9933, 31.4984

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.8515, 75.8526, 11.2230 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(241, 231, 0)` looks like.

```
.text, #text, p{  
    color:rgb(241, 231, 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(241, 231, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 231, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 64.8515, 75.8526, 11.2230 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(241, 231, 0) }
```

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

```
.border{ border-color:rgb(241, 231, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(241, 231, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 231, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 231, 0);  
box-shadow:4px 4px 4px 4px rgb(241, 231,  
0) }
```



# Background

The CSS property to change the background color of an element to XYZ 64.8515, 75.8526, 11.2230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 231, 0) }
```

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

```
.background{ background-color: rgb(241,  
231, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor