

# Converting Colors

XYZ(64.6728, 68.9403, 31.3709)

Have a look what the booklet for  
XYZ(64.6728, 68.9403, 31.3709)  
contains.

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# **Color**

**XYZ(64.6728, 68.9403,  
31.3709)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F1D783
RGB	241, 215, 131
RGB Percent	95%, 84%, 51%
CMY	0.0549, 0.1568, 0.4863
CMYK	0.00, 0.11, 0.46, 0.05
HSL	46°, 80%, 73%
HSV	46°, 46%, 95%
XYZ	64.6728, 68.9403, 31.3709
YIQ	213.1980, 42.4600, -20.6120

# Conversions

## Conversions Part 2

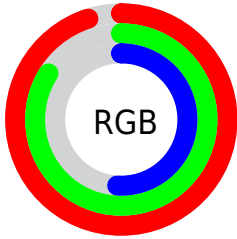
Format	Color
R <sub>Y</sub> B	165, 241, 131
Decimal	15849347
CIE Lab	86.47, -1.92, 44.59
CIE LCh	86, 44.627, 92.472
Yxy	68.9403, 0.3920, 0.4179
Android (android.graphics.Color)	4294039427 (0xFFFF1D783)
YUV	213.1980, -40.5236, 24.3824
Hunter-Lab	83.0303, -6.2683, 35.7200

# Details

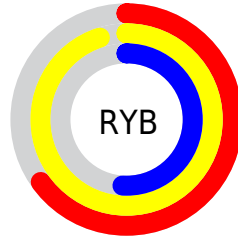
The XYZ color **64.6728, 68.9403, 31.3709** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **37.2939, 35.2890, 88.0648**, and the grayscale version is **63.6227, 66.9360, 72.8934**.

A 20% lighter version of the original color is **85.7570, 96.2828, 59.9635**, and **33.5472, 35.7881, 12.7291** is the 20% darker color. If you saturate the color by 10%, you get **61.8011, 65.5139, 23.2712**, and if you desaturate by 10%, it is **67.9782, 72.6260, 41.4908**.

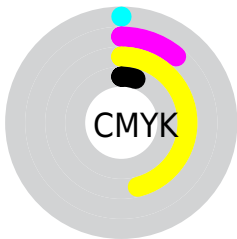
# Distribution



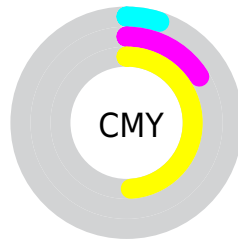
- Red (95%)
- Green (84%)
- Blue (51%)



- Red (65%)
- Yellow (95%)
- Blue (51%)



- Cyan (0%)
- Magenta (11%)
- Yellow (46%)
- Black (5%)




- Cyan (5%)
- Magenta (16%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.6728, 68.9403, 31.3709 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 64.6728, 68.9403, 31.3709 by changing the saturation by 10% instead.





 64.6728, 68.9403,  
31.3709

 64.6728, 68.9403,  
31.3709


431.1790,  
456.8204, 322.6474


 47.4595, 50.6631,  
20.6206


 110.6476,  
117.6963, 62.9100

 33.6085, 35.9406,  
12.6584


 140.1399,  
148.9439, 84.5358

 22.7545, 24.3883,  
7.0658


 174.4559,  
185.2837, 110.6239

 14.5320, 15.6219,  
3.4242

213.9610,  
227.1002, 141.5928

 8.5758, 9.2570,  
1.3151

259.0205,  
274.7777, 177.8611

 4.5204, 4.9092,  
0.0741

309.9997,

 2.0006, 2.1941,

328.7006, 219.8472

0.0000

367.2641,  
389.2534, 267.9698

■ 0.6343, 0.7168,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.6728, 68.9403,  
31.3709

■ 64.6728, 68.9403,  
31.3709

■ 61.8011, 65.5139,  
23.2712

■ 67.9782, 72.6260,  
41.4908

■ 59.3310, 62.3256,  
17.0466


■ 71.7370, 76.5722,  
53.7542


■ 57.2333, 59.3654,  
12.5395


■ 75.9735, 80.7917,  
68.2792


■ 55.4723, 56.6182,  
9.5640


■ 80.7088, 85.2939,  
85.1741


 54.0040, 54.0656,  
7.8911

 85.9624, 90.0874,  
104.5404

 53.4262, 53.0020,  
7.4145

 88.2559, 93.7815,  
108.0578

 90.0447, 97.3591,  
108.6541

 90.0856, 97.4407,  
108.6677

# Harmonies

## Analogous

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



75.1404, 68.9403, 35.0781



64.6728, 68.9403, 31.3709



55.4305, 68.9403, 36.5763

# Triad

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



64.6728, 68.9403, 31.3709



50.1575, 68.9403, 109.9312



84.7633, 68.9403, 104.5419

# Complementary

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



64.6728, 68.9403, 31.3709



37.2939, 35.2890, 88.0648

# 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.



76.7777, 68.9403, 134.0040



64.6728, 68.9403, 31.3709



56.7682, 68.9403, 137.6468

# Square

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



64.6728, 68.9403, 31.3709



47.6187, 68.9403, 77.5444



66.3860, 68.9403, 147.4386



87.4385, 68.9403, 72.6376



# Rectangle

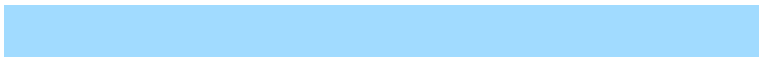
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



64.6728, 68.9403, 31.3709



51.0031, 68.9403, 45.4733



66.3860, 68.9403, 147.4386



82.5723, 68.9403, 115.3176

# Sweetspot

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



64.6745, 68.9435, 31.3723



87.1932, 92.6453, 80.5118



50.6070, 37.4199, 37.1301



18.4255, 19.5995, 16.4000



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.



64.6745, 68.9435, 31.3723



70.4035, 74.6588, 26.8443



63.1381, 78.7704, 33.3501



16.7879, 17.7889, 16.6985



29.0807, 28.9595, 4.0570



2.4947, 2.5600, 0.3626



# Inverse Universe

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



37.2939, 35.2890, 88.0648



35.6605, 31.9941, 98.9037



38.1932, 29.9042, 86.9781



15.2005, 15.8350, 19.9769



9.4879, 5.2000, 45.6315



0.8635, 0.5810, 3.8208



# Previews

## White Background



This preview shows how the XYZ color 64.6728, 68.9403, 31.3709 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

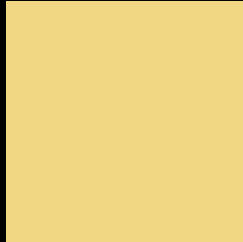
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.6728, 68.9403, 31.3709 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 64.6728, 68.9403, 31.3709**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.6728, 68.9403, 31.3709.



This preview shows how white text looks on a background with the XYZ color 64.6728, 68.9403,

31.3709.

# 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

64.6728, 68.9403, 31.3709

### Protanopia

63.9028, 69.2962, 31.8373

### Deuteranopia

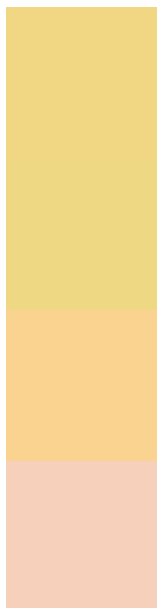
69.3818, 68.6061, 38.8636



## Tritanopia

73.9355, 68.6770, 77.0693

# Trichromacy



## Original Color

64.6728, 68.9403, 31.3709

## Protanomaly

63.9806, 68.9548, 31.7673

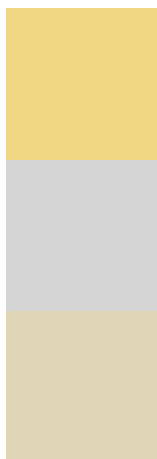
## Deuteranomaly

67.7526, 68.9261, 36.1187

## Tritanomaly

69.9907, 68.5167, 57.1131

# Monochromacy



## Original Color

64.6728, 68.9403, 31.3709

## Achromatopsia

63.2451, 66.5387, 72.4607

## Achromatomaly

63.0252, 67.2000, 54.4489

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.6728, 68.9403, 31.3709 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, 215, 131)` looks like.

```
.text, #text, p{  
    color:rgb(241, 215, 131)  
}
```

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, 215, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 215, 131) }
```

## Border

The CSS property to change the border of an element to XYZ 64.6728, 68.9403, 31.3709 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, 215, 131) }
```



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

```
.border{ border-color:rgb(241, 215, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(241, 215, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 215, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 215, 131);  
box-shadow:4px 4px 4px 4px rgb(241, 215,  
131) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.6728, 68.9403, 31.3709 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 215, 131) }
```

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

```
.background{ background-color: rgb(241,  
215, 131) }
```

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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