

# Converting Colors

XYZ(68.1641, 75.3830, 48.6954)

Have a look what the booklet for  
XYZ(68.1641, 75.3830, 48.6954)  
contains.

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# Color

**XYZ(68.1835, 75.5072,  
48.5168)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8E4A9
RGB	232, 228, 169
RGB Percent	91%, 89%, 66%
CMY	0.0902, 0.1059, 0.3372
CMYK	0.00, 0.02, 0.27, 0.09
HSL	56°, 58%, 79%
HSV	56°, 27%, 91%
XYZ	68.1835, 75.5072, 48.5168
YIQ	222.4700, 21.3230, -17.5010

# Conversions

## Conversions Part 2

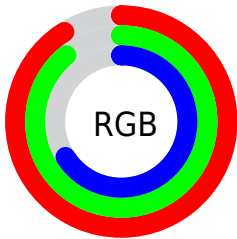
Format	Color
<a href="#">RYB</a>	<a href="#">173, 232, 169</a>
Decimal	<a href="#">15262889</a>
CIELab	<a href="#">89.63, -7.71, 29.36</a>
CIELCh	<a href="#">90, 30.357, 104.710</a>
Yxy	<a href="#">75.5072, 0.3547, 0.3928</a>
Android (android.graphics.Color)	<a href="#">4293452969</a> ( <a href="#">0xFFE8E4A9</a> )
YUV	<a href="#">222.4700, -26.3607, 8.3578</a>
Hunter-Lab	<a href="#">86.8949, -12.0031, 27.7225</a>

# Details

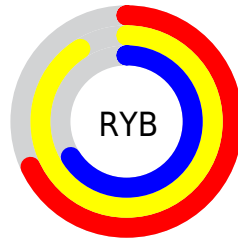
The XYZ color **68.1835, 75.5072, 48.5168** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **45.8710, 44.1471, 82.4476**, and the grayscale version is **69.9353, 73.5774, 80.1258**.

A 20% lighter version of the original color is **90.5906, 98.2162, 85.4172**, and **36.0005, 40.3782, 22.4193** is the 20% darker color. If you saturate the color by 10%, you get **65.7938, 73.9092, 37.9117**, and if you desaturate by 10%, it is **70.9670, 77.2735, 61.1616**.

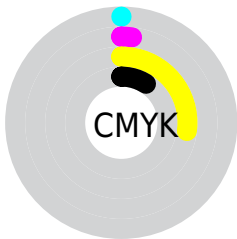
# Distribution



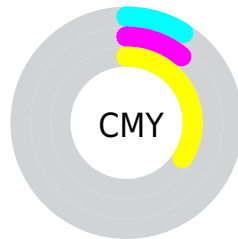
- Red (91%)
- Green (89%)
- Blue (66%)



- Red (68%)
- Yellow (91%)
- Blue (66%)



- Cyan (0%)
- Magenta (2%)
- Yellow (27%)
- Black (9%)



- Cyan (9%)
- Magenta (11%)
- Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.1835, 75.5072, 48.5168 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 68.1835, 75.5072, 48.5168 by changing the saturation by 10% instead.



68.1835, 75.5072,  
48.5168

68.1835, 75.5072,  
48.5168

443.5124,  
479.6591, 397.4046

50.3213, 56.0285,  
33.8734

115.6551,  
127.0301, 89.3469

35.8876, 40.2258,  
22.5198

145.9951,  
159.8430, 116.3707

24.5171, 27.7146,  
14.0374

181.2252,  
197.8695, 148.3585

15.8444, 18.1107,  
8.0076

221.7105,  
241.4940, 185.7287

9.5043, 11.0295,  
4.0120

267.8166,  
291.1008, 228.8998

5.1313, 6.0867,  
1.6319

319.9087,

2.3600, 2.8978,

347.0743, 278.2905

0.3134

378.3522,  
409.7989, 334.3192

■ 0.8251, 1.0786,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 68.1835, 75.5072,  
48.5168

■ 68.1835, 75.5072,  
48.5168

■ 65.7938, 73.9092,  
37.9117

■ 70.9670, 77.2735,  
61.1616

■ 63.7716, 72.4611,  
29.2338


■ 74.1575, 79.2054,  
75.9409


■ 62.0967, 71.1574,  
22.3673


■ 77.7746, 81.3135,  
92.9494

■ 60.7441, 69.9881,  
17.1819


■ 80.7201, 83.1586,  
106.4045


 59.6860, 68.9420,  
13.5298


 81.1404, 83.9991,  
106.5446

 58.8893, 68.0060,  
11.2377

 81.5641, 84.8466,  
106.6859

 58.3111, 67.1627,  
10.0800

 81.9913, 85.7010,  
106.8283

 58.1668, 66.9318,  
9.8534

 82.4221, 86.5625,  
106.9719

 82.8563, 87.4309,  
107.1166

# Harmonies

## Analogous

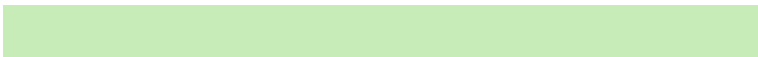
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



75.6197, 75.5072, 48.5925



68.1835, 75.5072, 48.5168



62.1346, 75.5072, 56.3220

# Triad

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



68.1835, 75.5072, 48.5168



62.0414, 75.5072, 114.6617



86.5238, 75.5072, 93.5390

# Complementary

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



68.1835, 75.5072, 48.5168



45.8710, 44.1471, 82.4476

# Split Complementary

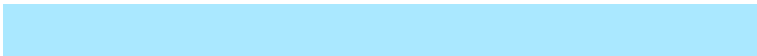
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



82.3475, 75.5072, 115.0289



68.1835, 75.5072, 48.5168



68.0481, 75.5072, 128.5887

# Square

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



68.1835, 75.5072, 48.5168



58.7590, 75.5072, 93.1022



75.4746, 75.5072, 128.7337



86.5664, 75.5072, 72.2106

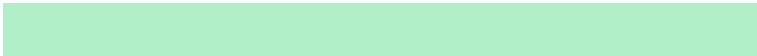


# Rectangle

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



68.1835, 75.5072, 48.5168



59.5549, 75.5072, 65.8728



75.4746, 75.5072, 128.7337



85.5447, 75.5072, 101.0574

# Sweetspot

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



68.1854, 75.5106, 48.5184



91.5264, 97.9326, 92.3735



55.0295, 48.5575, 46.1099



19.4568, 20.8818, 19.1494



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.



68.1854, 75.5106, 48.5184



82.6580, 92.3577, 51.9234



61.1127, 73.5146, 48.5059



15.5193, 16.6524, 15.3007



32.3273, 37.2288, 5.4820



2.4127, 2.7987, 0.4130



# Inverse Universe

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



45.8710, 44.1471, 82.4476



50.3736, 46.9844, 101.0217



51.5972, 45.9791, 82.4994



13.6558, 14.0330, 18.1332



8.2095, 3.4812, 42.6224

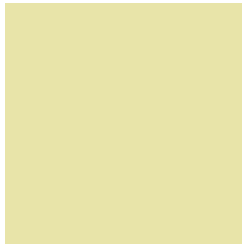


0.6326, 0.3092, 3.1583



# Previews

## White Background



This preview shows how the XYZ color 68.1835, 75.5072, 48.5168 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

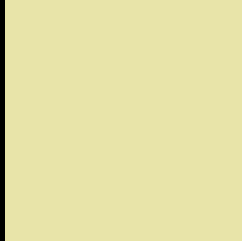
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.1835, 75.5072, 48.5168 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

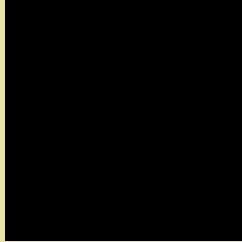
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 68.1835, 75.5072, 48.5168**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.1835, 75.5072, 48.5168.



This preview shows how white text looks on a background with the XYZ color 68.1835, 75.5072,



# 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

68.1835, 75.5072, 48.5168

### Protanopia

70.2687, 75.3784, 47.8917

### Deuteranopia

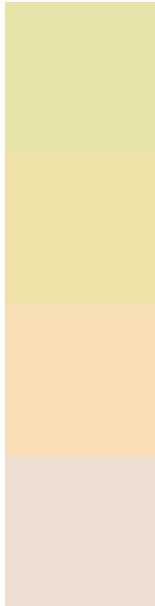
75.6486, 75.5539, 58.1732



## Tritanopia

76.4070, 75.2444, 89.8534

# Trichromacy



## Original Color

68.1835, 75.5072, 48.5168

## Protanomaly

69.5241, 75.3970, 47.9346

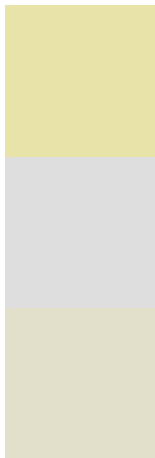
## Deuteranomaly

72.8195, 75.3529, 54.4226

## Tritanomaly

72.9300, 75.0005, 72.9201

# Monochromacy



## Original Color

68.1835, 75.5072, 48.5168

## Achromatopsia

69.4303, 73.0461, 79.5472

## Achromatomaly

68.7992, 73.7919, 67.1171

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.1835, 75.5072, 48.5168 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(232, 228, 169)` looks like.

```
.text, #text, p{  
    color:rgb(232, 228, 169)  
}
```

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(232, 228, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 228, 169) }
```

## Border

The CSS property to change the border of an element to XYZ 68.1835, 75.5072, 48.5168 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(232, 228, 169) }
```



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

```
.border{ border-color:rgb(232, 228, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 228, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(232, 228, 169); -webkit-box-shadow:4px 4px 4px 4px rgb(232, 228, 169); box-shadow:4px 4px 4px 4px rgb(232, 228, 169) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.1835, 75.5072, 48.5168 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 228, 169) }
```

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

```
.background{ background-color: rgb(232,  
228, 169) }
```

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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