

# Converting Colors

XYZ(63.4863, 64.7966, 12.2929)

Have a look what the booklet for  
XYZ(63.4863, 64.7966, 12.2929)  
contains.

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# **Color**

**XYZ(63.4304, 64.6847,  
12.2742)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCC33
RGB	255, 204, 51
RGB Percent	100%, 80%, 20%
CMY	0.0000, 0.2000, 0.8000
CMYK	0.00, 0.20, 0.80, 0.00
HSL	45°, 100%, 60%
HSV	45°, 80%, 100%
XYZ	63.4304, 64.6847, 12.2742
YIQ	201.8070, 79.5090, -36.7710

# Conversions

## Conversions Part 2

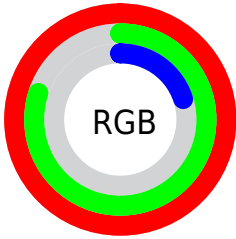
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	119, 255, 51
Decimal	16763955
CIE <sub>Lab</sub>	84.32, 4.52, 76.35
CIE <sub>LCh</sub>	84, 76.487, 86.610
Yxy	64.6847, 0.4518, 0.4608
Android (android.graphics.Color)	4294954035 (0xFFFFCC33)
YUV	201.8070, -74.3479, 46.6503
Hunter-Lab	80.4268, 0.0311, 47.2503

# Details

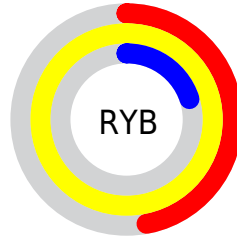
The XYZ color **63.4304, 64.6847, 12.2742** is a light color, and the websafe version is hex **FFCC33**, and the color name is **sunglow**. The color can be described as light washed yellow. A complement of this color would be **24.1667, 17.4264, 96.6970**, and the grayscale version is **56.4347, 59.3737, 64.6579**.

A 20% lighter version of the original color is **79.8145, 93.9058, 28.6708**, and **33.1545, 33.2820, 4.6766** is the 20% darker color. If you saturate the color by 10%, you get **61.5309, 61.5526, 9.5864**, and if you desaturate by 10%, it is **65.7027, 68.0703, 16.6061**.

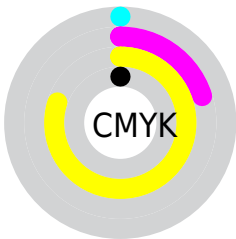
# Distribution



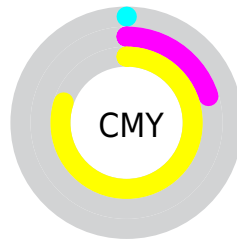
- Red (100%)
- Green (80%)
- Blue (20%)



- Red (47%)
- Yellow (100%)
- Blue (20%)



- Cyan (0%)
- Magenta (20%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (20%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.4304, 64.6847, 12.2742 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 63.4304, 64.6847, 12.2742 by changing the saturation by 10% instead.




 63.4304, 64.6847,  
12.2742

 63.4304, 64.6847,  
12.2742


426.7647,  
441.6581, 217.2542

 46.4494, 47.2055,  
6.8059


 108.8685,  
111.5964, 30.6654


 32.8067, 33.1981,  
3.2644

 138.0564,  
141.7977, 44.4253


 22.1370, 22.2783,  
1.2312


 172.0440,  
177.0085, 61.7862

 14.0747, 14.0615,  
0.0044

 211.1966,  
217.6131, 83.1666

 8.2547, 8.1635,  
0.0000

 255.8797,  
263.9959, 108.9851

 4.3115, 4.1997,  
0.0000

306.4584,

 1.8798, 1.7859,

316.5415, 139.6601

0.0000

363.2983,  
375.6340, 175.6103

■ 0.5651, 0.4784,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.4304, 64.6847,  
12.2742

■ 63.4304, 64.6847,  
12.2742

■ 61.5309, 61.5526,  
9.5864

■ 65.7027, 68.0703,  
16.6061

■ 59.9269, 58.6342,  
8.1592

■ 68.3881, 71.7189,  
22.8106

■ 59.9265, 58.6335,  
8.1589

■ 71.5258, 75.6500,  
31.0841

■ 75.1489, 79.8778,  
41.5967

■ 79.2868, 84.4153,  
54.5011

■ 83.9668, 89.2743,  
69.9364

■ 89.2137, 94.4660,  
88.0311

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



81.2399, 64.6847, 17.6769



63.4304, 64.6847, 12.2742



47.9951, 64.6847, 15.5683

# Triad

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



63.4304, 64.6847, 12.2742



36.6818, 64.6847, 121.1174



92.9414, 64.6847, 135.3800

# Complementary

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



63.4304, 64.6847, 12.2742



24.1667, 17.4264, 96.6970

# 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.



77.2821, 64.6847, 191.3486



63.4304, 64.6847, 12.2742



45.2174, 64.6847, 180.7909

# Square

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



63.4304, 64.6847, 12.2742



34.3255, 64.6847, 65.0486



59.5717, 64.6847, 210.9322



100.1373, 64.6847, 76.1017



# Rectangle

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



63.4304, 64.6847, 12.2742



40.6897, 64.6847, 23.7686



59.5717, 64.6847, 210.9322



88.3668, 64.6847, 156.0892

# Sweetspot

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



63.4319, 64.6879, 12.2755



82.0275, 87.2908, 63.4467



44.8223, 24.5874, 14.9550



17.2037, 18.3152, 12.4189



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.



63.4319, 64.6879, 12.2755



60.5447, 59.7801, 8.6406



61.2595, 84.5961, 16.2326



19.1541, 20.2764, 19.0485



31.4379, 30.8870, 4.3048



3.1475, 3.1804, 0.4480



# Inverse Universe

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



24.1667, 17.4264, 96.6970



20.4560, 11.8425, 95.8154



24.7140, 12.4132, 95.7005



17.3719, 18.1154, 22.8310



10.4806, 5.8708, 50.0154



1.1027, 0.7360, 4.8972



# Previews

## White Background



This preview shows how the XYZ color 63.4304, 64.6847, 12.2742 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 63.4304, 64.6847, 12.2742 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 63.4304, 64.6847, 12.2742

## Background



This preview shows how black text looks on a background with the XYZ color 63.4304, 64.6847, 12.2742.



This preview shows how white text looks on a background with the XYZ color 63.4304, 64.6847,



# 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

63.4304, 64.6847, 12.2742

### Protanopia

58.8619, 64.8501, 12.7831

### Deuteranopia

65.1750, 64.6268, 23.7910



## Tritanopia

71.8957, 64.7464, 67.1005

# Trichromacy



## Original Color

63.4304, 64.6847, 12.2742

## Protanomaly

60.4839, 64.5928, 12.5286

## Deuteranomaly

64.3991, 64.6931, 18.5440

## Tritanomaly

66.9391, 63.8502, 37.6504

# Monochromacy



## Original Color

63.4304, 64.6847, 12.2742

## Achromatopsia

56.1383, 59.0619, 64.3184

## Achromatomaly

56.4412, 60.1906, 36.2469

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.4304, 64.6847, 12.2742 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(255, 204, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 204, 51)  
}
```

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(255, 204, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 204, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 63.4304, 64.6847, 12.2742 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(255, 204, 51) }
```



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

```
.border{ border-color:rgb(255, 204, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 204, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 204, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 204, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 204,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.4304, 64.6847, 12.2742 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 204, 51) }
```

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

```
.background{ background-color: rgb(255,  
204, 51) }
```

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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