

# Converting Colors

XYZ(37.4003, 44.2039, 15.5899)

Have a look what the booklet for  
XYZ(37.4003, 44.2039, 15.5899)  
contains.

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# Color

**XYZ(37.4762, 44.2584,  
15.5843)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4B757
RGB	180, 183, 87
RGB Percent	71%, 72%, 34%
CMY	0.2941, 0.2823, 0.6588
CMYK	0.02, 0.00, 0.52, 0.28
HSL	62°, 40%, 53%
HSV	62°, 52%, 72%
XYZ	37.4762, 44.2584, 15.5843
YIQ	171.1590, 29.0280, -30.4920

# Conversions

## Conversions Part 2

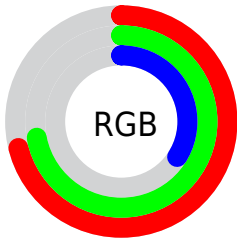
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 183, 90
Decimal	11843415
CIELab	72.40, -14.40, 47.80
CIELCh	72, 49.918, 106.762
Yxy	44.2584, 0.3851, 0.4548
Android (android.graphics.Color)	4290033495 (0xFFB4B757)
YUV	171.1590, -41.4904, 7.7536
Hunter-Lab	66.5270, -15.8690, 32.6799

# Details

The XYZ color **37.4762, 44.2584, 15.5843** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **16.1733, 12.4099, 46.3453**, and the grayscale version is **38.9814, 41.0115, 44.6615**.

A 20% lighter version of the original color is **70.7866, 81.7742, 36.4792**, and **16.7435, 20.4466, 4.6542** is the 20% darker color. If you saturate the color by 10%, you get **36.6887, 43.9296, 12.1274**, and if you desaturate by 10%, it is **38.4559, 44.6673, 20.0412**.

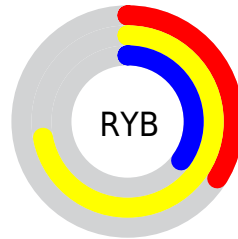
# Distribution



Red (71%)

Green (72%)

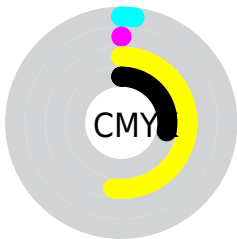
Blue (34%)



Red (34%)

Yellow (72%)

Blue (35%)

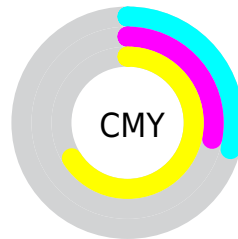


Cyan (2%)

Magenta (0%)

Yellow (52%)

Black (28%)



Cyan (29%)

Magenta (28%)


Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.4762, 44.2584, 15.5843 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 37.4762, 44.2584, 15.5843 by changing the saturation by 10% instead.





 37.4762, 44.2584,  
15.5843


 37.4762, 44.2584,  
15.5843


326.6875,  
363.7617, 238.6375


 25.7518, 30.8737,  
9.0793


 70.6137, 81.6064,  
36.6317


 16.7697, 20.5027,  
4.6954


 92.7574, 106.3386,  
52.0112

 10.1647, 12.7610,  
2.0141


 119.1050,  
135.6219, 71.1860

 5.5714, 7.2642,  
0.5639

 150.0217,  
169.8410, 94.5745

 2.6244, 3.6279,  
0.0000

185.8730,  
209.3801, 122.5954

 0.9584, 1.4676,  
0.0000

227.0241,

 0.0000, 0.2658,

254.6237, 155.6672

0.0000

273.8405,  
305.9561, 194.2083

■ 0.0000, 0.0000,  
0.0000

■ 37.4762, 44.2584,  
15.5843

■ 37.4762, 44.2584,  
15.5843

■ 36.6887, 43.9296,  
12.1274

■ 38.4559, 44.6673,  
20.0412

■ 36.0756, 43.6691,  
9.5908

■ 39.6378, 45.1556,  
25.5643

■ 35.6213, 43.4721,  
7.8872

■ 41.0347, 45.7299,  
32.2174

■ 35.3057, 43.3307,  
6.9113

■ 42.6578, 46.3948,  
40.0583

■ 35.1290, 43.2486,  
6.4963

■ 44.5173, 47.1543,  
49.1412

■ 46.6228, 48.0122,  
59.5165

■ 48.9833, 48.9723,  
71.2323

■ 51.6076, 50.0379,  
84.3338

■ 54.5038, 51.2123,  
98.8644

# Harmonies

## Analogous

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



45.9670, 44.2584, 15.2320



37.4762, 44.2584, 15.5843



31.1349, 44.2584, 22.4873

# Triad

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



37.4762, 44.2584, 15.5843



31.7267, 44.2584, 91.5689



60.2993, 44.2584, 59.8663

# Complementary

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



37.4762, 44.2584, 15.5843



16.1733, 12.4099, 46.3453

# 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.



55.2967, 44.2584, 88.4468



37.4762, 44.2584, 15.5843



38.3927, 44.2584, 110.5363

# Square

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



37.4762, 44.2584, 15.5843



28.1386, 44.2584, 63.1753



47.0166, 44.2584, 109.2309



59.9655, 44.2584, 35.7840



# Rectangle

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



37.4762, 44.2584, 15.5843



28.6301, 44.2584, 31.8183



47.0166, 44.2584, 109.2309



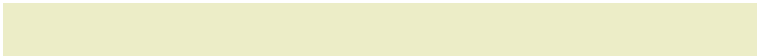
59.1600, 44.2584, 69.3897

# Sweetspot

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



37.4773, 44.2604, 15.5852



75.2399, 82.6148, 66.1390



24.7894, 17.8348, 11.1533



16.4864, 18.1931, 13.9712



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



37.4773, 44.2604, 15.5852



65.5112, 78.5908, 20.8941



28.3916, 39.5766, 15.1600



9.7216, 10.4887, 9.6190



24.5165, 30.1750, 4.5322



0.8730, 1.0682, 0.1602



# Inverse Universe

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



16.1733, 12.4099, 46.3453



23.2328, 15.3580, 81.9756



22.2078, 15.5208, 46.6277



8.5464, 8.7325, 11.3145



6.0237, 2.4165, 31.4020



0.2212, 0.0897, 1.1074



# Previews

## White Background



This preview shows how the XYZ color 37.4762, 44.2584, 15.5843 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 37.4762, 44.2584, 15.5843 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 37.4762, 44.2584, 15.5843**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.4762, 44.2584, 15.5843.



This preview shows how white text looks on a background with the XYZ color 37.4762, 44.2584,



# 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

37.4762, 44.2584, 15.5843

### Protanopia

40.3250, 44.2324, 15.0067

### Deuteranopia

44.9897, 44.0367, 16.0262



## Tritanopia

44.8507, 43.9974, 52.5828

# Trichromacy



## Original Color

37.4762, 44.2584, 15.5843

## Protanomaly

39.2362, 44.2616, 15.2795

## Deuteranomaly

41.8834, 43.8477, 15.9288

## Tritanomaly

41.2801, 43.6918, 35.1118

# Monochromacy



## Original Color

37.4762, 44.2584, 15.5843

## Achromatopsia

38.7082, 40.7240, 44.3485

## Achromatomaly

37.5192, 41.5521, 30.8538

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4762, 44.2584, 15.5843 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(180, 183, 87)` looks like.

```
.text, #text, p{  
    color:rgb(180, 183, 87)  
}
```

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(180, 183, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 183, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4762, 44.2584, 15.5843 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(180, 183, 87) }
```



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

```
.border{ border-color:rgb(180, 183, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 183, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 183, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 183, 87);  
box-shadow:4px 4px 4px 4px rgb(180, 183,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.4762, 44.2584, 15.5843 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 183, 87) }
```

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

```
.background{ background-color: rgb(180,  
183, 87) }
```

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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