

# Converting Colors

XYZ(37.6505, 58.1040, 15.9018)

Have a look what the booklet for  
XYZ(37.6505, 58.1040, 15.9018)  
contains.

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# Color

**XYZ(37.5446, 57.9848,  
15.8700)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88DE4B
RGB	136, 222, 75
RGB Percent	53%, 87%, 29%
CMY	0.4667, 0.1294, 0.7059
CMYK	0.39, 0.00, 0.66, 0.13
HSL	95°, 69%, 58%
HSV	95°, 66%, 87%
XYZ	37.5446, 57.9848, 15.8700
YIQ	179.5280, -4.0690, -63.9490

# Conversions

## Conversions Part 2

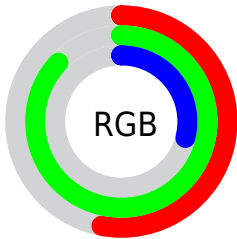
Format	Color
<a href="#">RYB</a>	<a href="#">75, 222, 161</a>
Decimal	<a href="#">8969803</a>
CIELab	<a href="#">80.73, -50.08, 61.52</a>
CIElCh	<a href="#">81, 79.327, 129.143</a>
Yxy	<a href="#">57.9848, 0.3370, 0.5205</a>
Android (android.graphics.Color)	<a href="#">4287159883 (0xFF88DE4B)</a>
YUV	<a href="#">179.5280, -51.5323, -38.1741</a>
Hunter-Lab	<a href="#">76.1478, -45.2493, 40.9468</a>

# Details

The XYZ color **37.5446, 57.9848, 15.8700** is a dark color, and the websafe version is hex **66CC33**. The color can be described as middle muted chartreuse. A complement of this color would be **30.4018, 17.8851, 70.9603**, and the grayscale version is **43.3997, 45.6598, 49.7236**.

A 20% lighter version of the original color is **62.0374, 84.6010, 34.1790**, and **16.8000, 28.9009, 4.8078** is the 20% darker color. If you saturate the color by 10%, you get **34.9306, 56.7120, 12.4501**, and if you desaturate by 10%, it is **40.6821, 59.5004, 20.7001**.

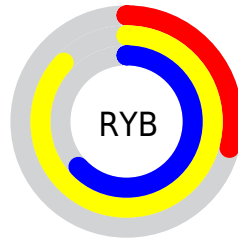
# Distribution



Red (53%)

Green (87%)

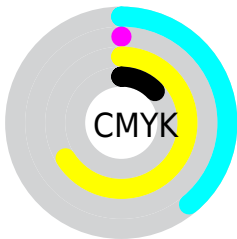
Blue (29%)



Red (29%)

Yellow (87%)

Blue (63%)

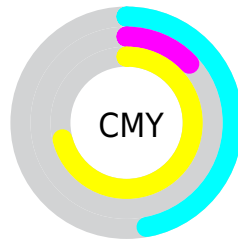


Cyan (39%)

Magenta (0%)

Yellow (66%)

Black (13%)



Cyan (47%)

Magenta (13%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.5446, 57.9848, 15.8700 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 37.5446, 57.9848, 15.8700 by changing the saturation by 10% instead.





 37.5446, 57.9848,  
15.8700


 37.5446, 57.9848,  
15.8700


326.9771,  
417.1293, 240.3929


 25.8050, 41.7964,  
9.2789


 70.7180, 101.9007,  
37.1360


 16.8098, 28.9419,  
4.8242


 92.8825, 130.3971,  
52.6480


 10.1934, 19.0369,  
2.0876


 119.2528,  
163.7649, 71.9706

 5.5906, 11.6969,  
0.6084

 150.1941,  
202.3885, 95.5224

 2.6361, 6.5377,  
0.0000

 186.0718,  
246.6523, 123.7221

 0.9644, 3.1747,  
0.0000

227.2514,

 0.0000, 1.2236,

296.9408, 156.9880

0.0000

274.0980,  
353.6384, 195.7387

■ 0.0000, 0.0809,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.5446, 57.9848,  
15.8700

■ 37.5446, 57.9848,  
15.8700

■ 34.9306, 56.7120,  
12.4501

■ 40.6821, 59.5004,  
20.7001

■ 32.7978, 55.6583,  
10.2836


■ 44.3724, 61.2657,  
27.0676


■ 31.1019, 54.8067,  
9.1808


■ 48.6471, 63.2962,  
35.0899


■ 30.5478, 54.5264,  
8.9146

■ 53.5338, 65.6040,  
44.8718

 59.0584, 68.2002,  
56.5096

 65.2451, 71.0953,  
70.0925

 72.1165, 74.2992,  
85.7040

 79.6945, 77.8215,  
103.4226

 84.6437, 80.3287,  
105.6515

# Harmonies

## Analogous

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



50.2637, 57.9848, 9.4206



37.5446, 57.9848, 15.8700



30.6336, 57.9848, 36.1858

# Triad

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



37.5446, 57.9848, 15.8700



44.6547, 57.9848, 190.2867



92.3693, 57.9848, 49.8744

# Complementary

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



37.5446, 57.9848, 15.8700



30.4018, 17.8851, 70.9603

# 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.



90.0447, 57.9848, 100.9488



37.5446, 57.9848, 15.8700



60.2642, 57.9848, 200.3891

# Square

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



37.5446, 57.9848, 15.8700



34.1387, 57.9848, 138.7917



77.4510, 57.9848, 161.9518



83.2870, 57.9848, 21.6315



# Rectangle

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



37.5446, 57.9848, 15.8700



29.2635, 57.9848, 61.7984



77.4510, 57.9848, 161.9518



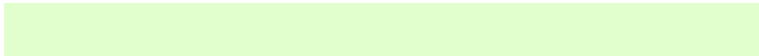
92.9294, 57.9848, 64.4920

# Sweetspot

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



37.5460, 57.9873, 15.8713



77.7608, 91.9132, 70.7693



44.0978, 41.4425, 12.3325



16.1875, 19.4586, 14.1875



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.



37.5460, 57.9873, 15.8713



46.7545, 77.1122, 15.8548



30.7553, 54.4334, 17.9572



14.0649, 15.6136, 14.5792



18.2637, 32.4478, 5.3005



1.3660, 2.3007, 0.3721



# Inverse Universe

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



30.4018, 17.8851, 70.9603



36.2328, 18.5209, 96.2730



44.2443, 25.2041, 63.3456



13.7166, 13.6374, 17.2970



13.4185, 6.0128, 41.5017



1.0313, 0.4689, 2.8814



# Previews

## White Background



This preview shows how the XYZ color 37.5446, 57.9848, 15.8700 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

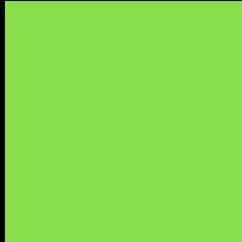
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.5446, 57.9848, 15.8700 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 37.5446, 57.9848, 15.8700**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.5446, 57.9848, 15.8700.



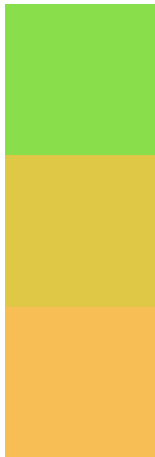
This preview shows how white text looks on a background with the XYZ color 37.5446, 57.9848,



# 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

37.5446, 57.9848, 15.8700

### Protanopia

52.1599, 57.4262, 13.9655

### Deuteranopia

58.4509, 57.2730, 16.7782



## **Tritanopia**

50.3085, 57.8645, 79.0384

# Trichromacy



## Original Color

37.5446, 57.9848, 15.8700



## Protanomaly

45.1791, 56.6430, 14.5132



## Deuteranomaly

48.3756, 56.1157, 16.2644



## Tritanomaly

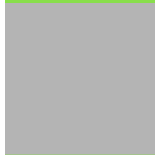
43.8124, 57.0701, 46.7367

# Monochromacy



## Original Color

37.5446, 57.9848, 15.8700



## Achromatopsia

43.3819, 45.6411, 49.7032



## Achromatomaly

39.7074, 48.8757, 32.9323

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.5446, 57.9848, 15.8700 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(136, 222, 75)` looks like.

```
.text, #text, p{  
    color:rgb(136, 222, 75)  
}
```

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(136, 222, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 222, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 37.5446, 57.9848, 15.8700 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(136, 222, 75) }
```



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

```
.border{ border-color:rgb(136, 222, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 222, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 222, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 222, 75);  
box-shadow:4px 4px 4px 4px rgb(136, 222,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.5446, 57.9848, 15.8700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 222, 75) }
```

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

```
.background{ background-color: rgb(136,  
222, 75) }
```

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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