

# Converting Colors

XYZ(37.8078, 59.7967, 16.0686)

Have a look what the booklet for  
XYZ(37.8078, 59.7967, 16.0686)  
contains.

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# Color

**XYZ(37.7925, 59.7124,  
16.0123)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83E24A
RGB	131, 226, 74
RGB Percent	51%, 89%, 29%
CMY	0.4863, 0.1137, 0.7098
CMYK	0.42, 0.00, 0.67, 0.11
HSL	98°, 72%, 59%
HSV	98°, 67%, 89%
XYZ	37.7925, 59.7124, 16.0123
YIQ	180.2670, -7.8280, -67.4120

# Conversions

## Conversions Part 2

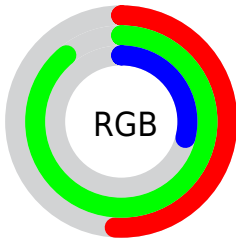
<b>Format</b>	<b>Color</b>
<b>RYB</b>	74, 226, 169
Decimal	8643146
CIELab	81.68, -53.37, 62.85
CIElCh	82, 82.453, 130.337
Yxy	59.7124, 0.3329, 0.5260
Android (android.graphics.Color)	4286833226 (0xFF83E24A)
YUV	180.2670, -52.3896, -43.2072
Hunter-Lab	77.2738, -47.9297, 41.8059

# Details

The XYZ color **37.7925, 59.7124, 16.0123** 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 **32.5413, 18.8254, 73.8733**, and the grayscale version is **43.8034, 46.0846, 50.1861**.

A 20% lighter version of the original color is **61.0245, 84.0789, 34.1316**, and **16.9733, 30.0890, 4.9132** is the 20% darker color. If you saturate the color by 10%, you get **35.1233, 58.4110, 12.6022**, and if you desaturate by 10%, it is **41.0362, 61.2821, 20.8788**.

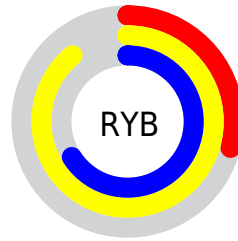
# Distribution



Red (51%)

Green (89%)

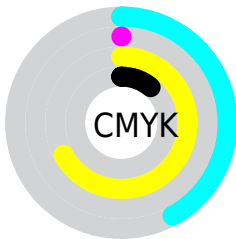
Blue (29%)



Red (29%)

Yellow (89%)

Blue (66%)

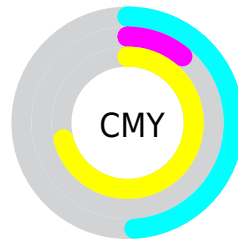


Cyan (42%)

Magenta (0%)

Yellow (67%)

Black (11%)



Cyan (49%)

Magenta (11%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7925, 59.7124, 16.0123 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 37.7925, 59.7124, 16.0123 by changing the saturation by 10% instead.





 37.7925, 59.7124,  
16.0123


 37.7925, 59.7124,  
16.0123


328.0253,  
423.5369, 241.2625

 25.9982, 43.1869,  
9.3784


 71.0959, 104.4124,  
37.3866

 16.9549, 30.0318,  
4.8886


 93.3357, 133.3556,  
52.9642


 10.2975, 19.8627,  
2.1245


 119.7881,  
167.2068, 72.3600

 5.6604, 12.2953,  
0.6303

 150.8183,  
206.3504, 95.9927

 2.6784, 6.9451,  
0.0000

 186.7918,  
251.1708, 124.2807

 0.9861, 3.4278,  
0.0000

228.0739,

 0.0000, 1.3589,

302.0525, 157.6427

0.0000

275.0299,  
359.3797, 196.4971

■ 0.0000, 0.1862,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.7925, 59.7124,  
16.0123

■ 37.7925, 59.7124,  
16.0123

■ 35.1233, 58.4110,  
12.6022

■ 41.0362, 61.2821,  
20.8788

■ 32.9817, 57.3516,  
10.4814


■ 44.8879, 63.1288,  
27.3368


■ 31.3153, 56.5140,  
9.4359


■ 49.3829, 65.2698,  
35.5105

■ 30.9208, 56.3146,  
9.2401


■ 54.5523, 67.7187,  
45.5106

 60.4251, 70.4883,  
57.4385

 67.0284, 73.5905,  
71.3883

 74.3879, 77.0366,  
87.4478

 82.5277, 80.8373,  
105.6996

 86.4876, 82.8752,  
106.0459

# Harmonies

## Analogous

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



50.9795, 59.7124, 9.0561



37.7925, 59.7124, 16.0123



30.7904, 59.7124, 37.8877

# Triad

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



37.7925, 59.7124, 16.0123



46.2585, 59.7124, 202.7695



96.2819, 59.7124, 49.3426

# Complementary

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



37.7925, 59.7124, 16.0123



32.5413, 18.8254, 73.8733

# 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.



94.3000, 59.7124, 102.7320



37.7925, 59.7124, 16.0123



62.9507, 59.7124, 211.4683

# Square

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



37.7925, 59.7124, 16.0123



34.9442, 59.7124, 148.4841



81.1887, 59.7124, 168.3475



86.1532, 59.7124, 20.7245



# Rectangle

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



37.7925, 59.7124, 16.0123



29.5155, 59.7124, 65.5804



81.1887, 59.7124, 168.3475



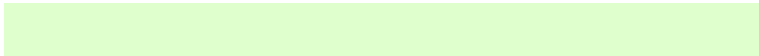
97.0530, 59.7124, 64.4562

# Sweetspot

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



37.7939, 59.7150, 16.0136



77.1286, 91.5872, 70.7397



46.5559, 44.5726, 12.6290



16.0371, 19.3811, 14.1805



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.



37.7939, 59.7150, 16.0136



44.8923, 76.1652, 15.1805



31.9423, 56.6193, 19.3104



14.0120, 15.5863, 14.5767



17.7607, 32.1885, 5.2769



1.3280, 2.2811, 0.3703



# Inverse Universe

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



32.5413, 18.8254, 73.8733



37.3824, 18.7827, 96.2629



45.2331, 25.6351, 62.4136



13.7710, 13.6655, 17.2996



14.2587, 6.4459, 41.5410



1.0865, 0.4974, 2.8840



# Previews

## White Background



This preview shows how the XYZ color 37.7925, 59.7124, 16.0123 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 37.7925, 59.7124, 16.0123 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

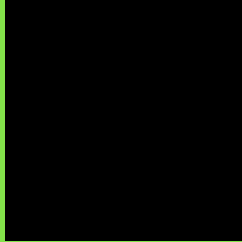
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.7925, 59.7124, 16.0123**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7925, 59.7124, 16.0123.



This preview shows how white text looks on a background with the XYZ color 37.7925, 59.7124,



# 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

37.7925, 59.7124, 16.0123

### Protanopia

53.5279, 58.8272, 14.0024

### Deuteranopia

59.9137, 58.6791, 16.7627



## **Tritanopia**

51.0082, 59.2579, 82.1483

# Trichromacy



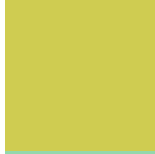
## Original Color

37.7925, 59.7124, 16.0123



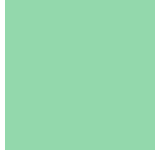
## Protanomaly

45.8856, 58.1071, 14.5917



## Deuteranomaly

48.8102, 57.0452, 16.2228



## Tritanomaly

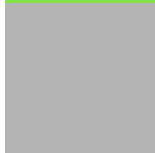
44.0349, 58.2933, 47.9606

# Monochromacy



## Original Color

37.7925, 59.7124, 16.0123



## Achromatopsia

43.3819, 45.6411, 49.7032



## Achromatomaly

39.6743, 49.5370, 32.6698

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7925, 59.7124, 16.0123 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(131, 226, 74)` looks like.

```
.text, #text, p{  
    color:rgb(131, 226, 74)  
}
```

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(131, 226, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 226, 74) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7925, 59.7124, 16.0123 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(131, 226, 74) }
```



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

```
.border{ border-color:rgb(131, 226, 74) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 226, 74)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 226, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 226, 74);  
box-shadow:4px 4px 4px 4px rgb(131, 226,  
74) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7925, 59.7124, 16.0123 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 226, 74) }
```

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

```
.background{ background-color: rgb(131,  
226, 74) }
```

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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