

# Converting Colors

XYZ(37.1381, 68.0605, 17.8502)

Have a look what the booklet for  
XYZ(37.1381, 68.0605, 17.8502)  
contains.

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# Color

**XYZ(37.0498, 67.8754,  
17.8051)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4AF64B
RGB	74, 246, 75
RGB Percent	29%, 96%, 29%
CMY	0.7098, 0.0353, 0.7059
CMYK	0.70, 0.00, 0.70, 0.04
HSL	120°, 91%, 63%
HSV	120°, 70%, 96%
XYZ	37.0498, 67.8754, 17.8051
YIQ	175.0780, -47.6210, -89.6450

# Conversions

## Conversions Part 2

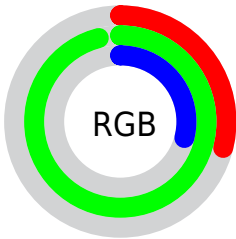
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">74, 245, 246</a>
Decimal	<a href="#">4912715</a>
CIELab	<a href="#">85.94, -74.17, 66.40</a>
CIELCh	<a href="#">86, 99.546, 138.164</a>
Yxy	<a href="#">67.8754, 0.3019, 0.5530</a>
Android (android.graphics.Color)	<a href="#">4283102795 (0xFF4AF64B)</a>
YUV	<a href="#">175.0780, -49.3385, -88.6454</a>
Hunter-Lab	<a href="#">82.3865, -63.9037, 44.8570</a>

# Details

The XYZ color **37.0498, 67.8754, 17.8051** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **56.9378, 31.0838, 89.3844**, and the grayscale version is **41.0547, 43.1928, 47.0369**.

A 20% lighter version of the original color is **51.4265, 79.1152, 34.3901**, and **17.9832, 35.9664, 5.9944** is the 20% darker color. If you saturate the color by 10%, you get **34.8308, 66.8123, 14.1404**, and if you desaturate by 10%, it is **40.3335, 69.4542, 23.2008**.

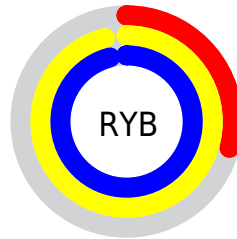
# Distribution



Red (29%)

Green (96%)

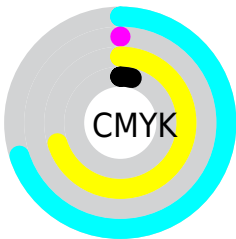
Blue (29%)



Red (29%)

Yellow (96%)

Blue (96%)

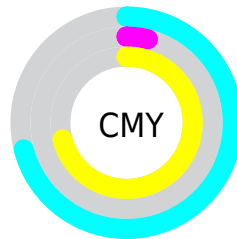


Cyan (70%)

Magenta (0%)

Yellow (70%)

Black (4%)



Cyan (71%)

Magenta (4%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.0498, 67.8754, 17.8051 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 37.0498, 67.8754, 17.8051 by changing the saturation by 10% instead.





 37.0498, 67.8754,  
17.8051


 37.0498, 67.8754,  
17.8051


324.8779,  
453.0544, 251.9693


 25.4199, 49.7964,  
10.6422


 69.9627, 116.1739,  
40.5144


 16.5206, 35.2516,  
5.7156

 91.9764, 147.1621,  
56.8978


 9.9864, 23.8568,  
2.6070


 118.1821,  
183.2222, 77.1918

 5.4522, 15.2274,  
0.8960

 148.9452,  
224.7386, 101.8149

 2.5524, 8.9791,  
0.0000

 184.6309,  
272.0956, 131.1857

 0.9217, 4.7276,  
0.0000

225.6047,

 0.0000, 2.0883,

325.6776, 165.7226

0.0000

272.2319,  
385.8691, 205.8443

0.0000, 0.6580,  
0.0000

0.0000, 0.0000,  
0.0000

37.0498, 67.8754,  
17.8051

37.0498, 67.8754,  
17.8051

34.8308, 66.8123,  
14.1404

40.3335, 69.4542,  
23.2008

33.5406, 66.1934,  
11.9915


44.7873, 71.5933,  
30.5003


32.9686, 65.9192,  
11.0330


50.5091, 74.3418,  
39.8604


32.9650, 65.9174,  
11.0272

57.5854, 77.7412,  
51.4207

 66.0950, 81.8294,  
65.3082

 76.1107, 86.6416,  
81.6407

 87.7003, 92.2102,  
100.5278

 92.2471, 94.3943,  
107.9657

# Harmonies

## Analogous

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



51.7877, 67.8754, 7.2814



37.0498, 67.8754, 17.8051



30.4121, 67.8754, 51.0253

# Triad

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



37.0498, 67.8754, 17.8051



55.9319, 67.8754, 277.5184



115.7850, 67.8754, 41.2642

# Complementary

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



37.0498, 67.8754, 17.8051



56.9378, 31.0838, 89.3844

# 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.



117.6450, 67.8754, 102.7680



37.0498, 67.8754, 17.8051



79.1699, 67.8754, 268.9407

# Square

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



37.0498, 67.8754, 17.8051



39.4651, 67.8754, 212.4928



103.0050, 67.8754, 193.2832



98.4000, 67.8754, 14.2732



# Rectangle

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



37.0498, 67.8754, 17.8051



30.1176, 67.8754, 93.2095



103.0050, 67.8754, 193.2832



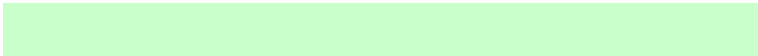
118.3746, 67.8754, 57.4684

# Sweetspot

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



37.0514, 67.8782, 17.8066



70.6012, 88.2530, 69.0435



72.2008, 86.0024, 19.2734



14.5413, 18.6158, 13.8476



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.



37.0514, 67.8782, 17.8066



37.0853, 72.1549, 14.1680



42.1266, 69.9083, 44.5322



16.2862, 18.4736, 17.5254



17.5965, 35.1834, 5.8949



1.5479, 3.0928, 0.5252



# Inverse Universe

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



56.9378, 31.0838, 89.3844



59.8751, 29.9717, 96.1840



46.8018, 27.0294, 36.0093



17.2093, 16.7666, 20.8485



29.0497, 13.9633, 47.0974

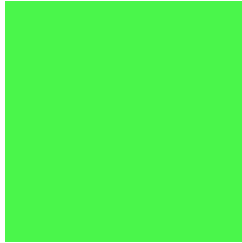


2.5545, 1.2278, 4.1464



# Previews

## White Background



This preview shows how the XYZ color 37.0498, 67.8754, 17.8051 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 37.0498, 67.8754, 17.8051 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

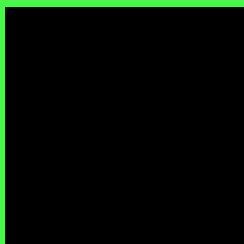
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 37.0498, 67.8754, 17.8051

## Background



This preview shows how black text looks on a background with the XYZ color 37.0498, 67.8754, 17.8051.



This preview shows how white text looks on a background with the XYZ color 37.0498, 67.8754,



# 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

37.0498, 67.8754, 17.8051

### Protanopia

60.0375, 66.1590, 14.7599

### Deuteranopia

66.9021, 66.4549, 29.3796



## **Tritanopia**

53.1252, 67.4359, 99.0234

# Trichromacy



## Original Color

37.0498, 67.8754, 17.8051



## Protanomaly

46.3595, 63.7451, 15.4909



## Deuteranomaly

49.2862, 63.0879, 23.7669



## Tritanomaly

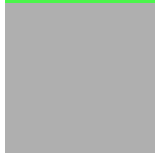
44.4613, 66.4367, 56.3792

# Monochromacy



## Original Color

37.0498, 67.8754, 17.8051



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

36.0281, 49.0406, 31.9930

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.0498, 67.8754, 17.8051 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(74, 246, 75)` looks like.

```
.text, #text, p{  
    color:rgb(74, 246, 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(74, 246, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 246, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 37.0498, 67.8754, 17.8051 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(74, 246, 75) }
```



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

```
.border{ border-color:rgb(74, 246, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(74, 246, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 246, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 246, 75);  
box-shadow:4px 4px 4px 4px rgb(74, 246,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.0498, 67.8754, 17.8051 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 246, 75) }
```

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

```
.background{ background-color: rgb(74, 246,  
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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