

# Converting Colors

XYZ(37.8597, 70.6739, 17.1614)

Have a look what the booklet for  
XYZ(37.8597, 70.6739, 17.1614)  
contains.

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# Color

**XYZ(37.7873, 70.5700,  
17.0986)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42FB44
RGB	66, 251, 68
RGB Percent	26%, 98%, 27%
CMY	0.7412, 0.0157, 0.7333
CMYK	0.74, 0.00, 0.73, 0.02
HSL	121°, 96%, 62%
HSV	121°, 74%, 98%
XYZ	37.7873, 70.5700, 17.0986
YIQ	174.8230, -51.5170, -96.1330

# Conversions

## Conversions Part 2

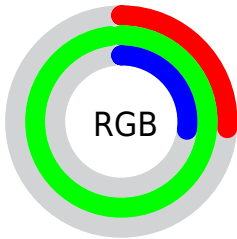
Format	Color
<a href="#">RYB</a>	<a href="#">66, 249, 251</a>
Decimal	<a href="#">4389700</a>
CIELab	<a href="#">87.28, -77.50, 70.16</a>
CIELCh	<a href="#">87, 104.540, 137.846</a>
Yxy	<a href="#">70.5700, 0.3012, 0.5625</a>
Android (android.graphics.Color)	<a href="#">4282579780 (0xFF42FB44)</a>
YUV	<a href="#">174.8230, -52.6637, -95.4378</a>
Hunter-Lab	<a href="#">84.0060, -66.7181, 46.7363</a>

# Details

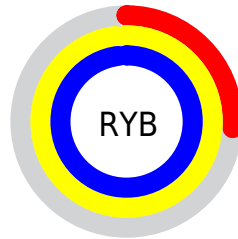
The XYZ color **37.7873, 70.5700, 17.0986** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **58.8320, 31.2459, 92.5507**, and the grayscale version is **40.9405, 43.0726, 46.9060**.

A 20% lighter version of the original color is **50.3411, 78.6018, 32.2571**, and **19.0700, 38.1399, 6.3567** is the 20% darker color. If you saturate the color by 10%, you get **35.8484, 69.6423, 13.8556**, and if you desaturate by 10%, it is **40.7914, 72.0139, 22.0678**.

# Distribution



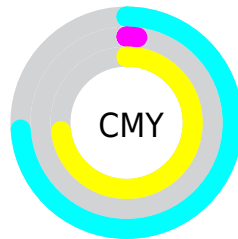
- Red (26%)
- Green (98%)
- Blue (27%)



- Red (26%)
- Yellow (98%)
- Blue (98%)



- Cyan (74%)
- Magenta (0%)
- Yellow (73%)
- Black (2%)




- Cyan (74%)
- Magenta (2%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7873, 70.5700, 17.0986 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 37.7873, 70.5700, 17.0986 by changing the saturation by 10% instead.





 37.7873, 70.5700,  
17.0986


 37.7873, 70.5700,  
17.0986


328.0033,  
462.5489, 247.8031


 25.9941, 51.9914,  
10.1421


 71.0880, 120.0213,  
39.2882


 16.9519, 36.9982,  
5.3865


 93.3262, 151.6627,  
55.3584


 10.2953, 25.2061,  
2.4131


 119.7769,  
188.4271, 75.3036

 5.6589, 16.2307,  
0.7935

 150.8052,  
230.6990, 99.5423

 2.6775, 9.6875,  
0.0000

 186.7767,  
278.8627, 128.4930

 0.9856, 5.1923,  
0.0000

228.0566,

 0.0000, 2.3605,

333.3027, 162.5744

0.0000

275.0104,  
394.4033, 202.2049

■ 0.0000, 0.8055,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.7873, 70.5700,  
17.0986

■ 37.7873, 70.5700,  
17.0986

■ 35.8484, 69.6423,  
13.8556

■ 40.7914, 72.0139,  
22.0678


■ 34.8210, 69.1505,  
12.0995


■ 44.9778, 74.0240,  
28.9522


■ 34.5136, 69.0032,  
11.5781


■ 50.4538, 76.6542,  
37.9215

■ 57.3134, 79.9496,  
49.1253

 65.6417, 83.9511,  
62.6994

 75.5171, 88.6966,  
78.7690

 87.0122, 94.2210,  
97.4504

 93.7886, 97.4773,  
108.4795

# Harmonies

## Analogous

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



53.6101, 70.5700, 6.5969



37.7873, 70.5700, 17.0986



30.6724, 70.5700, 51.7220

# Triad

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



37.7873, 70.5700, 17.0986



57.6093, 70.5700, 299.6017



122.8607, 70.5700, 42.3785

# Complementary

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



37.7873, 70.5700, 17.0986



58.8320, 31.2459, 92.5507

# 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.



124.6879, 70.5700, 108.9995



37.7873, 70.5700, 17.0986



82.6238, 70.5700, 291.0673

# Square

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



37.7873, 70.5700, 17.0986



40.0962, 70.5700, 227.1725



108.5601, 70.5700, 208.1540



104.0500, 70.5700, 13.8410



# Rectangle

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



37.7873, 70.5700, 17.0986



30.3078, 70.5700, 96.8338



108.5601, 70.5700, 208.1540



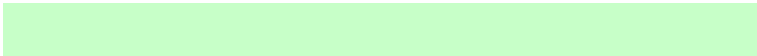
125.6228, 70.5700, 59.8051

# Sweetspot

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



37.7890, 70.5729, 17.1002



69.6546, 87.7956, 67.6181



75.2673, 89.9007, 18.5398



14.3586, 18.5274, 13.5768



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.



37.7890, 70.5729, 17.1002



36.5881, 71.9151, 13.3940



42.9602, 72.6414, 44.3318



17.0251, 19.3123, 18.3325



18.1443, 36.2707, 6.1034



1.6831, 3.3603, 0.5790



# Inverse Universe

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



58.8320, 31.2459, 92.5507



59.3800, 29.2834, 95.0885



47.9484, 26.8924, 35.2384



17.9845, 17.5211, 21.7740



29.8444, 14.3535, 48.0165

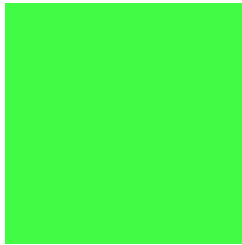


2.7667, 1.3304, 4.4606



# Previews

## White Background



This preview shows how the XYZ color 37.7873, 70.5700, 17.0986 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 37.7873, 70.5700, 17.0986 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

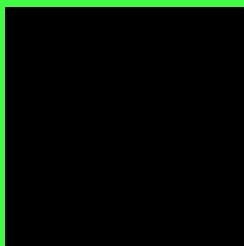
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.7873, 70.5700, 17.0986**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7873, 70.5700, 17.0986.



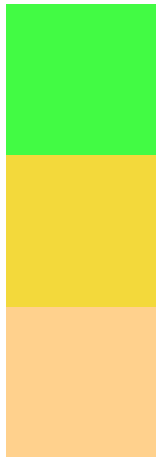
This preview shows how white text looks on a background with the XYZ color 37.7873, 70.5700,



# 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

37.7873, 70.5700, 17.0986

### Protanopia

62.5644, 68.9962, 14.1578

### Deuteranopia

68.8482, 68.7840, 34.8473



## Tritanopia

54.7602, 69.8594, 103.5266

# Trichromacy



## Original Color

37.7873, 70.5700, 17.0986



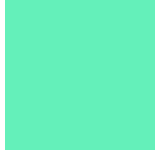
## Protanomaly

47.4792, 65.9701, 14.7885



## Deuteranomaly

49.9426, 64.9653, 25.8269



## Tritanomaly

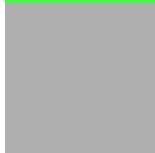
45.2785, 68.5747, 57.3042

# Monochromacy



## Original Color

37.7873, 70.5700, 17.0986



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

35.7915, 49.6403, 30.9877

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7873, 70.5700, 17.0986 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(66, 251, 68)` looks like.

```
.text, #text, p{  
    color:rgb(66, 251, 68)  
}
```

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(66, 251, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 251, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7873, 70.5700, 17.0986 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(66, 251, 68) }
```



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

```
.border{ border-color:rgb(66, 251, 68) }
```

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

Here you see how a box with a 4 pixel rgb(66, 251, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 251, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 251, 68);  
box-shadow:4px 4px 4px 4px rgb(66, 251,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7873, 70.5700, 17.0986 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 251, 68) }
```

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

```
.background{ background-color: rgb(66, 251,  
68) }
```

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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