

# Converting Colors

XYZ(37.8011, 67.5702, 16.9954)

Have a look what the booklet for  
XYZ(37.8011, 67.5702, 16.9954)  
contains.

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# Color

**XYZ(37.7045, 67.3300,  
16.9700)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5AF447
RGB	90, 244, 71
RGB Percent	35%, 96%, 28%
CMY	0.6471, 0.0431, 0.7215
CMYK	0.63, 0.00, 0.71, 0.04
HSL	113°, 89%, 62%
HSV	113°, 71%, 96%
XYZ	37.7045, 67.3300, 16.9700
YIQ	178.2320, -36.2510, -86.4510

# Conversions

## Conversions Part 2

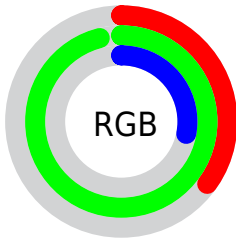
Format	Color
<a href="#">RYB</a>	<a href="#">71, 244, 225</a>
Decimal	<a href="#">5960775</a>
CIELab	<a href="#">85.67, -70.85, 67.66</a>
CIELCh	<a href="#">86, 97.968, 136.318</a>
Yxy	<a href="#">67.3300, 0.3090, 0.5519</a>
Android (android.graphics.Color)	<a href="#">4284150855 (0xFF5AF447)</a>
YUV	<a href="#">178.2320, -52.8654, -77.3795</a>
Hunter-Lab	<a href="#">82.0549, -61.5746, 45.1765</a>

# Details

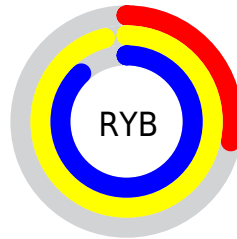
The XYZ color **37.7045, 67.3300, 16.9700** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle washed green. A complement of this color would be **49.6380, 27.0484, 88.1963**, and the grayscale version is **42.7266, 44.9518, 48.9525**.

A 20% lighter version of the original color is **53.3666, 80.1464, 33.0792**, and **17.5589, 35.1178, 5.8530** is the 20% darker color. If you saturate the color by 10%, you get **35.2606, 66.1452, 13.5567**, and if you desaturate by 10%, it is **41.0829, 68.9643, 22.0698**.

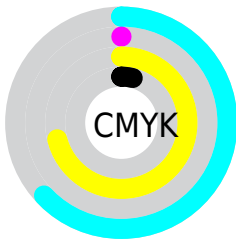
# Distribution



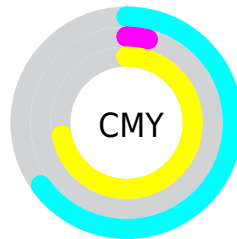
- Red (35%)
- Green (96%)
- Blue (28%)



- Red (28%)
- Yellow (96%)
- Blue (88%)



- Cyan (63%)
- Magenta (0%)
- Yellow (71%)
- Black (4%)




- Cyan (65%)
- Magenta (4%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7045, 67.3300, 16.9700 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 37.7045, 67.3300, 16.9700 by changing the saturation by 10% instead.





 37.7045, 67.3300,  
16.9700


 37.7045, 67.3300,  
16.9700


327.6535,  
451.1185, 247.0375

 25.9296, 49.3529,  
10.0514


 70.9618, 115.3931,  
39.0641

 16.9034, 34.8995,  
5.3270

 93.1749, 146.2479,  
55.0767


 10.2605, 23.5854,  
2.3783


 119.5982,  
182.1640, 74.9577

 5.6356, 15.0264,  
0.7746

 150.5969,  
223.5259, 99.1256

 2.6633, 8.8379,  
0.0000

 186.5364,  
270.7179, 127.9990

 0.9783, 4.6356,  
0.0000

227.7821,

 0.0000, 2.0351,

324.1244, 161.9965

0.0000

274.6993,  
384.1298, 201.5364

0.0000, 0.6277,  
0.0000

0.0000, 0.0000,  
0.0000

37.7045, 67.3300,  
16.9700

37.7045, 67.3300,  
16.9700

35.2606, 66.1452,  
13.5567

41.0829, 68.9643,  
22.0698


33.6509, 65.3567,  
11.6110


45.4735, 71.0782,  
29.0308


32.7985, 64.9343,  
10.8049


50.9512, 73.7090,  
38.0107

57.5823, 76.8878,  
49.1494

 65.4279, 80.6433,  
62.5744

 74.5446, 85.0022,  
78.4031

 84.9857, 89.9897,  
96.7449

 91.6421, 93.1841,  
107.7640

# Harmonies

## Analogous

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



52.6780, 67.3300, 7.3061



37.7045, 67.3300, 16.9700



30.6962, 67.3300, 47.9108

# Triad

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



37.7045, 67.3300, 16.9700



54.3706, 67.3300, 269.3304



114.6544, 67.3300, 43.9148

# Complementary

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



37.7045, 67.3300, 16.9700



49.6380, 27.0484, 88.1963

# 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.



115.4097, 67.3300, 106.3980



37.7045, 67.3300, 16.9700



76.8271, 67.3300, 265.8615

# Square

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



37.7045, 67.3300, 16.9700



38.6941, 67.3300, 202.9695



100.3216, 67.3300, 195.1888



98.4497, 67.3300, 15.5070



# Rectangle

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



37.7045, 67.3300, 16.9700



30.1133, 67.3300, 87.6859



100.3216, 67.3300, 195.1888



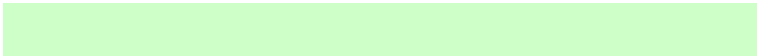
116.8338, 67.3300, 60.5996

# Sweetspot

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



37.7061, 67.3328, 16.9715



72.1799, 89.0712, 68.9245



65.0550, 72.9043, 16.6055



14.9074, 18.8055, 13.8202



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.



37.7061, 67.3328, 16.9715



38.1035, 72.6872, 13.8767



39.4896, 67.8594, 34.8052



16.4511, 18.5591, 17.5128



17.8880, 35.3344, 5.8774



1.6266, 3.1336, 0.5191



# Inverse Universe

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



49.6380, 27.0484, 88.1963



51.7714, 25.6448, 96.8290



47.5681, 26.9430, 44.6491



17.0239, 16.6705, 20.8630



24.5444, 11.6274, 47.4887

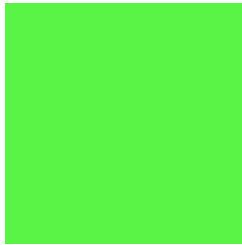


2.2074, 1.0478, 4.1761



# Previews

## White Background



This preview shows how the XYZ color 37.7045, 67.3300, 16.9700 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 37.7045, 67.3300, 16.9700 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

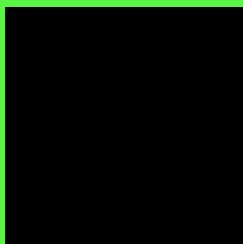
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

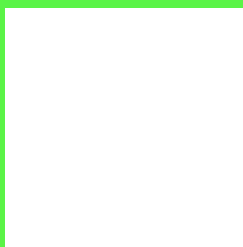
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.7045, 67.3300, 16.9700**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7045, 67.3300, 16.9700.



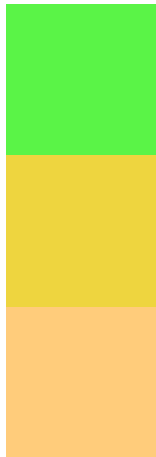
This preview shows how white text looks on a background with the XYZ color 37.7045, 67.3300,



# 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

37.7045, 67.3300, 16.9700

### Protanopia

59.9513, 66.1245, 14.3062

### Deuteranopia

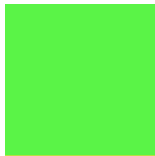
66.4080, 65.8758, 27.9541



## Tritanopia

53.5839, 66.8865, 97.2750

# Trichromacy



## Original Color

37.7045, 67.3300, 16.9700



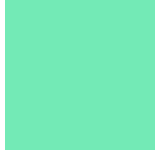
## Protanomaly

47.4062, 63.8950, 14.9887



## Deuteranomaly

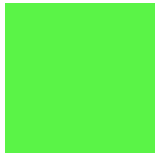
50.3359, 63.2646, 22.6550



## Tritanomaly

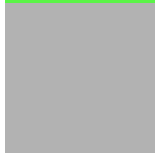
44.9365, 65.8679, 54.6013

# Monochromacy



## Original Color

37.7045, 67.3300, 16.9700



## Achromatopsia

42.3164, 44.5201, 48.4824



## Achromatomaly

37.6348, 50.2161, 32.1352

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7045, 67.3300, 16.9700 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(90, 244, 71)` looks like.

```
.text, #text, p{  
    color:rgb(90, 244, 71)  
}
```

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(90, 244, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 244, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7045, 67.3300, 16.9700 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(90, 244, 71) }
```



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

```
.border{ border-color:rgb(90, 244, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 244, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 244, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 244, 71);  
box-shadow:4px 4px 4px 4px rgb(90, 244,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7045, 67.3300, 16.9700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 244, 71) }
```

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

```
.background{ background-color: rgb(90, 244,  
71) }
```

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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