

# Converting Colors

XYZ(40.4652, 73.8766, 15.2588)

Have a look what the booklet for  
XYZ(40.4652, 73.8766, 15.2588)  
contains.

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# Color

**XYZ(40.4774, 73.8829,  
15.2594)**

# Conversions

## Conversions Part 1

Format	Color
Hex	59FF33
RGB	89, 255, 51
RGB Percent	35%, 100%, 20%
CMY	0.6510, 0.0000, 0.8000
CMYK	0.65, 0.00, 0.80, 0.00
HSL	109°, 100%, 60%
HSV	109°, 80%, 100%
XYZ	40.4774, 73.8829, 15.2594
YIQ	182.1100, -33.4520, -98.6360

# Conversions

## Conversions Part 2

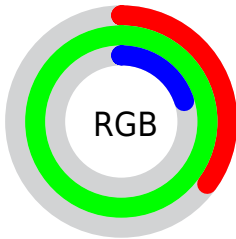
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	51, 255, 217
Decimal	5898035
CIE Lab	88.87, -75.83, 76.92
CIE LCh	89, 108.016, 134.593
Yxy	73.8829, 0.3123, 0.5700
Android (android.graphics.Color)	4284088115 (0xFF59FF33)
YUV	182.1100, -64.6372, -81.6575
Hunter-Lab	85.9552, -66.3636, 49.6430

# Details

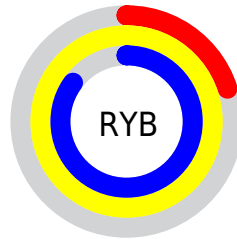
The XYZ color **40.4774, 73.8829, 15.2594** is a dark color, and the websafe version is hex **66FF33**. The color can be described as dark washed green. A complement of this color would be **47.8523, 24.3417, 96.7841**, and the grayscale version is **44.8783, 47.2155, 51.4177**.

A 20% lighter version of the original color is **52.7019, 79.9030, 28.5647**, and **19.9663, 39.9325, 6.6554** is the 20% darker color. If you saturate the color by 10%, you get **38.3423, 72.8303, 12.9856**, and if you desaturate by 10%, it is **43.4818, 75.3480, 19.1826**.

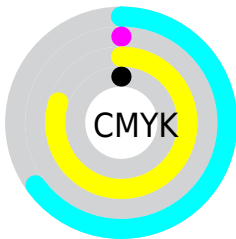
# Distribution



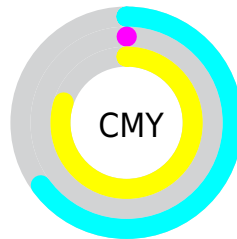
- Red (35%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (85%)



- Cyan (65%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)



- Cyan (65%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.4774, 73.8829, 15.2594 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 40.4774, 73.8829, 15.2594 by changing the saturation by 10% instead.





 40.4774, 73.8829,  
15.2594


 40.4774, 73.8829,  
15.2594


339.2317,  
474.0691, 236.6256


 28.0968, 54.6982,  
8.8530


 75.1697, 124.7298,  
36.0563


 18.5395, 39.1601,  
4.5499


 98.2121, 157.1608,  
51.2839


 11.4400, 26.8843,  
1.9316


 125.5391,  
194.7760, 70.2890

 6.4331, 17.4864,  
0.5127

 157.5162,  
237.9598, 93.4901

 3.1533, 10.5819,  
0.0000

 194.5086,  
287.0966, 121.3058

 1.2354, 5.7864,  
0.0000


236.8818,

 0.1340, 2.7157,


342.5709, 154.1546


0.0000


285.0010,  
404.7669, 192.4550

 0.0000, 0.9851,  
0.0000

 0.0000, 0.0000,  
0.0000


 40.4774, 73.8829,  
15.2594


 40.4774, 73.8829,  
15.2594


 38.3423, 72.8303,  
12.9856


 43.4818, 75.3480,  
19.1826

 36.9554, 72.1363,  
11.9762

 47.4419, 77.2651,  
24.9861

 36.9550, 72.1361,  
11.9759

 52.4336, 79.6692,  
32.8674

 58.5247, 82.5913,  
42.9984

■ 65.7771, 86.0602,  
55.5328

■ 74.2478, 90.1020,  
70.6110

■ 83.9903, 94.7416,  
88.3626

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



58.2879, 73.8829, 6.0394



40.4774, 73.8829, 15.2594



32.0121, 73.8829, 47.8991

# Triad

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



40.4774, 73.8829, 15.2594



57.6797, 73.8829, 314.8679



131.0778, 73.8829, 49.3135

# Complementary

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



40.4774, 73.8829, 15.2594



47.8523, 24.3417, 96.7841

# 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.



130.7973, 73.8829, 125.1522



40.4774, 73.8829, 15.2594



83.6864, 73.8829, 316.1868

# Square

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



40.4774, 73.8829, 15.2594



40.1280, 73.8829, 230.0600



111.8289, 73.8829, 232.9914



112.5202, 73.8829, 15.7427



# Rectangle

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



40.4774, 73.8829, 15.2594



31.0461, 73.8829, 92.5522



111.8289, 73.8829, 232.9914



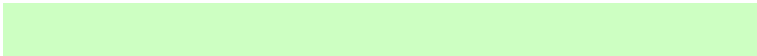
133.3073, 73.8829, 69.4443

# Sweetspot

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



40.4776, 73.8830, 15.2605



70.7066, 88.4133, 64.2601



65.9355, 69.6945, 13.1103



14.4957, 18.6194, 12.6203



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.



40.4776, 73.8830, 15.2605



37.4351, 72.3771, 12.2901



40.0619, 73.3985, 27.4455



18.0871, 20.3308, 19.1153



19.3997, 37.7390, 6.2619



1.9692, 3.7159, 0.6135



# Inverse Universe

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



47.8523, 24.3417, 96.7841



44.5711, 21.0565, 96.3229



52.1397, 27.5147, 53.4858



18.4415, 18.1193, 22.7754



23.0707, 10.8039, 50.3040

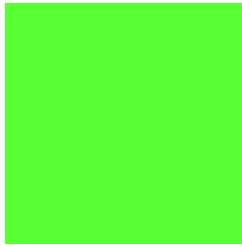


2.3282, 1.0941, 4.9018



# Previews

## White Background



This preview shows how the XYZ color 40.4774, 73.8829, 15.2594 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

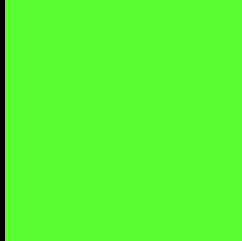
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.4774, 73.8829, 15.2594 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

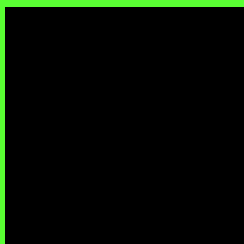
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

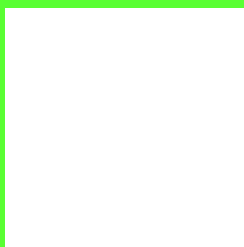
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.4774, 73.8829, 15.2594**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.4774, 73.8829, 15.2594.



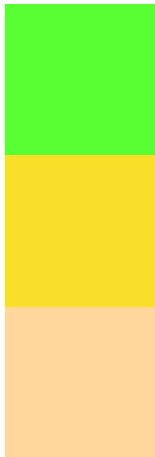
This preview shows how white text looks on a background with the XYZ color 40.4774, 73.8829,



# 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

40.4774, 73.8829, 15.2594

### Protanopia

65.6061, 72.5495, 12.7361

### Deuteranopia

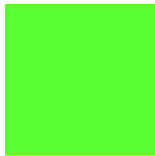
71.6262, 72.2952, 42.0775



## Tritanopia

59.1494, 73.3638, 105.6509

# Trichromacy



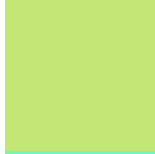
## Original Color

40.4774, 73.8829, 15.2594



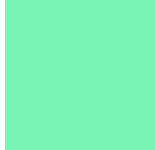
## Protanomaly

51.3823, 70.1115, 13.3074



## Deuteranomaly

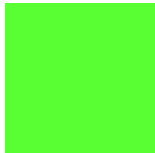
54.0725, 69.5037, 27.7052



## Tritanomaly

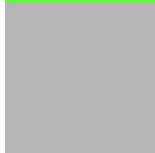
48.5763, 72.1025, 55.0730

# Monochromacy



## Original Color

40.4774, 73.8829, 15.2594



## Achromatopsia

44.4628, 46.7784, 50.9417



## Achromatomaly

39.3163, 53.6181, 30.8314

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.4774, 73.8829, 15.2594 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(89, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(89, 255, 51)  
}
```

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(89, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 255, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 40.4774, 73.8829, 15.2594 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(89, 255, 51) }
```



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

```
.border{ border-color:rgb(89, 255, 51) }
```

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

Here you see how a box with a 4 pixel rgb(89, 255, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(89, 255,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.4774, 73.8829, 15.2594 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 255, 51) }
```

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

```
.background{ background-color: rgb(89, 255,  
51) }
```

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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