

# Converting Colors

XYZ(38.8685, 73.0721, 14.3413)

Have a look what the booklet for  
XYZ(38.8685, 73.0721, 14.3413)  
contains.

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# Color

**XYZ(38.8685, 73.0721,  
14.3413)**

# Conversions

## Conversions Part 1

Format	Color
Hex	48FF2B
RGB	72, 255, 43
RGB Percent	28%, 100%, 17%
CMY	0.7176, 0.0000, 0.8313
CMYK	0.72, 0.00, 0.83, 0.00
HSL	112°, 100%, 58%
HSV	112°, 83%, 100%
XYZ	38.8685, 73.0721, 14.3413
YIQ	176.1150, -41.0160, -104.7280

# Conversions

## Conversions Part 2

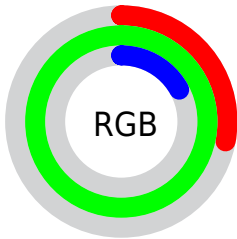
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">43, 255, 226</a>
Decimal	<a href="#">4783915</a>
CIELab	<a href="#">88.48, -79.23, 78.38</a>
CIELCh	<a href="#">88, 111.448, 135.307</a>
Yxy	<a href="#">73.0721, 0.3078, 0.5786</a>
Android (android.graphics.Color)	<a href="#">4282973995 (0xFF48FF2B)</a>
YUV	<a href="#">176.1150, -65.6257, -91.3089</a>
Hunter-Lab	<a href="#">85.4822, -68.4305, 49.8905</a>

# Details

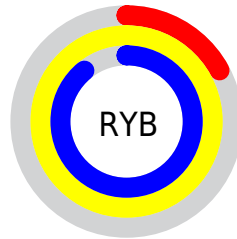
The XYZ color **38.8685, 73.0721, 14.3413** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **50.2824, 25.1195, 96.8061**, and the grayscale version is **41.6747, 43.8450, 47.7472**.

A 20% lighter version of the original color is **50.3744, 78.7351, 27.0104**, and **19.9663, 39.9325, 6.6554** is the 20% darker color. If you saturate the color by 10%, you get **37.1800, 72.2399, 12.5357**, and if you desaturate by 10%, it is **41.4365, 74.3240, 17.7132**.

# Distribution



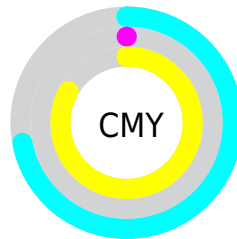
- Red (28%)
- Green (100%)
- Blue (17%)



- Red (17%)
- Yellow (100%)
- Blue (89%)



- Cyan (72%)
- Magenta (0%)
- Yellow (83%)
- Black (0%)



- Cyan (72%)
- Magenta (0%)
- Yellow (83%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.8685, 73.0721, 14.3413 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 38.8685, 73.0721, 14.3413 by changing the saturation by 10% instead.





 38.8685, 73.0721,  
14.3413


 38.8685, 73.0721,  
14.3413


332.5479,  
471.2647, 230.8456


 26.8377, 54.0349,  
8.2170


 72.7327, 123.5796,  
34.4192


 17.5873, 38.6296,  
4.1443


 95.2969, 155.8186,  
49.2099


 10.7520, 26.4717,  
1.7049


 122.1029,  
193.2271, 67.7264

 5.9664, 17.1768,  
0.3641

 153.5161,  
236.1894, 90.3873

 2.8651, 10.3607,  
0.0000

 189.9018,  
285.0899, 117.6111

 1.0828, 5.6387,  
0.0000

231.6255,

 0.0107, 2.6267,

340.3130, 149.8164

0.0000

279.0524,  
402.2432, 187.4218

■ 0.0000, 0.9401,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.8685, 73.0721,  
14.3413

■ 38.8685, 73.0721,  
14.3413

■ 37.1800, 72.2399,  
12.5357


■ 41.4365, 74.3240,  
17.7132


■ 36.4487, 71.8750,  
11.9522


■ 44.9868, 76.0432,  
22.8993

■ 49.6083, 78.2709,  
30.1077

■ 55.3794, 81.0437,  
39.5173

 62.3711, 84.3947,  
51.2873

 70.6485, 88.3545,  
65.5625

 80.2723, 92.9514,  
82.4757

 91.2989, 98.2117,  
102.1505

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.



56.7110, 73.0721, 5.2182



38.8685, 73.0721, 14.3413



30.5634, 73.0721, 47.6777

# Triad

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



38.8685, 73.0721, 14.3413



57.1782, 73.0721, 324.9361



132.0008, 73.0721, 46.6004

# Complementary

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



38.8685, 73.0721, 14.3413



50.2824, 25.1195, 96.8061

# 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.



132.2202, 73.0721, 123.2036



38.8685, 73.0721, 14.3413



83.9731, 73.0721, 323.8916

# Square

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



38.8685, 73.0721, 14.3413



39.1342, 73.0721, 237.4754



112.9337, 73.0721, 235.1652



112.3947, 73.0721, 13.9875



# Rectangle

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



38.8685, 73.0721, 14.3413



29.7236, 73.0721, 94.0171



112.9337, 73.0721, 235.1652



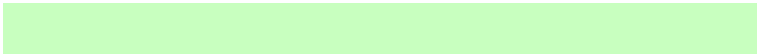
134.4836, 73.0721, 66.6720

# Sweetspot

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



38.8687, 73.0722, 14.3424



69.0022, 87.5674, 62.7000



68.1179, 74.3178, 13.0413



14.1333, 18.4389, 12.3205



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.



38.8687, 73.0722, 14.3424



36.4487, 71.8750, 11.9522



39.9799, 73.3231, 28.9394



18.0025, 20.2872, 19.1113



19.1153, 37.5924, 6.2486



1.9284, 3.6949, 0.6115



# Inverse Universe

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



50.2824, 25.1195, 96.8061



47.6049, 22.4561, 96.4331



50.4247, 26.3168, 46.0328



18.5340, 18.1670, 22.7797



24.9690, 11.7825, 50.3928

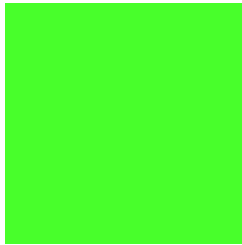


2.4957, 1.1805, 4.9096



# Previews

## White Background



This preview shows how the XYZ color 38.8685, 73.0721, 14.3413 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

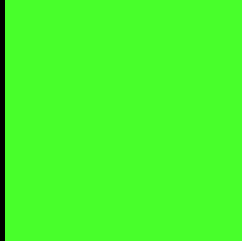
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.8685, 73.0721, 14.3413 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 38.8685, 73.0721, 14.3413**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.8685, 73.0721, 14.3413.



This preview shows how white text looks on a background with the XYZ color 38.8685, 73.0721,



# 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

38.8685, 73.0721, 14.3413

### Protanopia

64.5791, 71.2527, 11.7883

### Deuteranopia

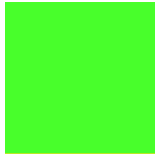
70.7017, 71.1155, 39.7060



## Tritanopia

57.6943, 72.6137, 105.5828

# Trichromacy



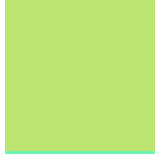
## Original Color

38.8685, 73.0721, 14.3413



## Protanomaly

49.2400, 68.6017, 12.3965



## Deuteranomaly

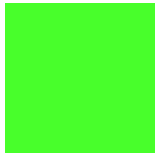
51.4071, 67.3480, 25.6193



## Tritanomaly

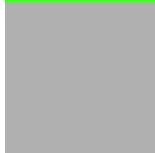
46.8170, 71.2307, 53.4009

# Monochromacy



## Original Color

38.8685, 73.0721, 14.3413



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

36.2088, 50.6244, 28.2852

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.8685, 73.0721, 14.3413 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(72, 255, 43)` looks like.

```
.text, #text, p{  
    color:rgb(72, 255, 43)  
}
```

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(72, 255, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 255, 43) }
```

## Border

The CSS property to change the border of an element to XYZ 38.8685, 73.0721, 14.3413 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(72, 255, 43) }
```



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

```
.border{ border-color:rgb(72, 255, 43) }
```

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

Here you see how a box with a 4 pixel rgb(72, 255, 43) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 255, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 255, 43);  
box-shadow:4px 4px 4px 4px rgb(72, 255,  
43) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.8685, 73.0721, 14.3413 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 255, 43) }
```

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

```
.background{ background-color: rgb(72, 255,  
43) }
```

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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