

# Converting Colors

XYZ(38.1441, 72.6313, 17.3491)

Have a look what the booklet for  
XYZ(38.1441, 72.6313, 17.3491)  
contains.

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# Color

**XYZ(38.1384, 72.6291,  
17.3189)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FF43
RGB	51, 255, 67
RGB Percent	20%, 100%, 26%
CMY	0.8000, 0.0000, 0.7372
CMYK	0.80, 0.00, 0.74, 0.00
HSL	125°, 100%, 60%
HSV	125°, 80%, 100%
XYZ	38.1384, 72.6291, 17.3189
YIQ	172.5720, -61.2360, -101.7160

# Conversions

## Conversions Part 2

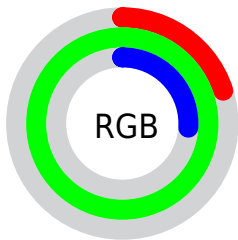
Format	Color
<a href="#">RYB</a>	<a href="#">51, 240, 255</a>
Decimal	<a href="#">3407683</a>
CIELab	<a href="#">88.27, -80.65, 71.41</a>
CIELCh	<a href="#">88, 107.725, 138.477</a>
Yxy	<a href="#">72.6291, 0.2978, 0.5670</a>
Android (android.graphics.Color)	<a href="#">4281597763 (0xFF33FF43)</a>
YUV	<a href="#">172.5720, -52.0470, -106.6186</a>
Hunter-Lab	<a href="#">85.2227, -69.2584, 47.6070</a>

# Details

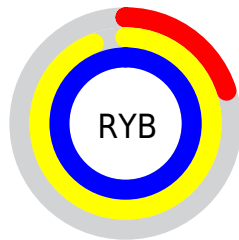
The XYZ color **38.1384, 72.6291, 17.3189** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **58.0030, 29.8594, 84.3632**, and the grayscale version is **39.7818, 41.8535, 45.5785**.

A 20% lighter version of the original color is **49.1988, 78.0129, 32.2036**, and **19.9663, 39.9325, 6.6554** is the 20% darker color. If you saturate the color by 10%, you get **36.6188, 71.9113, 14.2849**, and if you desaturate by 10%, it is **40.6476, 73.8240, 21.8934**.

# Distribution



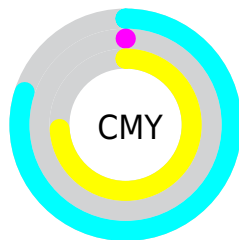
- Red (20%)
- Green (100%)
- Blue (26%)



- Red (20%)
- Yellow (94%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (74%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.1384, 72.6291, 17.3189 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 38.1384, 72.6291, 17.3189 by changing the saturation by 10% instead.





 38.1384, 72.6291,  
17.3189


 38.1384, 72.6291,  
17.3189


329.4839,  
469.7283, 249.1093

 26.2678, 53.6727,  
10.2978


 71.6228, 122.9505,  
39.6714


 17.1578, 38.3401,  
5.4886


 93.9672, 155.0844,  
55.8399


 10.4431, 26.2467,  
2.4730


 120.5337,  
192.3795, 75.8945

 5.7582, 17.0083,  
0.8258

 151.6876,  
235.2203, 100.2538

 2.7379, 10.2404,  
0.0000

 187.7942,  
283.9912, 129.3365

 1.0167, 5.5587,  
0.0000

229.2189,

 0.0000, 2.5786,

339.0766, 163.5609

0.0000

276.3270,  
400.8608, 203.3457

0.0000, 0.9159,  
0.0000

0.0000, 0.0000,  
0.0000

38.1384, 72.6291,  
17.3189

38.1384, 72.6291,  
17.3189

36.6188, 71.9113,  
14.2849

40.6476, 73.8240,  
21.8934

35.8864, 71.5705,  
12.5853

44.2772, 75.5599,  
28.1722

35.8863, 71.5705,  
12.5853

49.1389, 77.8913,  
36.3019

55.3305, 80.8658,  
46.4126

■ 62.9400, 84.5262,  
58.6225

■ 72.0477, 88.9118,  
73.0406

■ 82.7281, 94.0585,  
89.7685

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.



54.4650, 72.6291, 6.3611



38.1384, 72.6291, 17.3189



30.9228, 72.6291, 53.9465

# Triad

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



38.1384, 72.6291, 17.3189



59.5833, 72.6291, 316.1665



127.6245, 72.6291, 42.0413

# Complementary

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



38.1384, 72.6291, 17.3189



58.0030, 29.8594, 84.3632

# 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.



129.9863, 72.6291, 111.0134



38.1384, 72.6291, 17.3189



85.9886, 72.6291, 305.0569

# Square

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



38.1384, 72.6291, 17.3189



41.0774, 72.6291, 240.4037



113.2632, 72.6291, 215.7132



107.4432, 72.6291, 13.2558



# Rectangle

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



38.1384, 72.6291, 17.3189



30.6554, 72.6291, 101.9426



113.2632, 72.6291, 215.7132



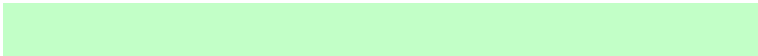
130.6862, 72.6291, 59.9211

# Sweetspot

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



38.1386, 72.6292, 17.3200



68.2194, 87.0679, 67.0010



72.7699, 90.5303, 16.7708



13.9165, 18.3062, 13.2551



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.



38.1386, 72.6292, 17.3200



36.1145, 71.6766, 13.1205



44.0635, 74.9991, 48.5198



17.8294, 20.1913, 19.4046



18.7716, 37.4052, 6.6827



1.8467, 3.6496, 0.7507



# Inverse Universe

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



58.0030, 29.8594, 84.3632



56.4609, 27.5255, 81.5363



47.1134, 25.5036, 27.0194



18.7275, 18.2743, 22.4484



29.4095, 14.2531, 42.4023

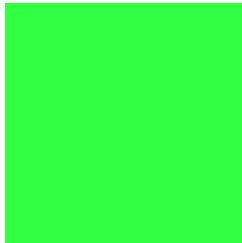


2.8810, 1.3948, 4.2209



# Previews

## White Background



This preview shows how the XYZ color 38.1384, 72.6291, 17.3189 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

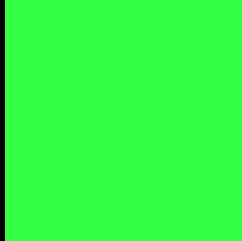
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.1384, 72.6291, 17.3189 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

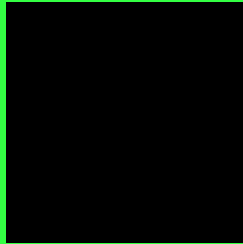
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.1384, 72.6291, 17.3189**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.1384, 72.6291, 17.3189.



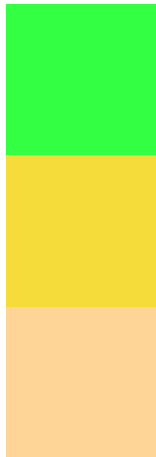
This preview shows how white text looks on a background with the XYZ color 38.1384, 72.6291,



# 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

38.1384, 72.6291, 17.3189

### Protanopia

64.3630, 71.0847, 14.3314

### Deuteranopia

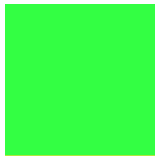
70.3694, 70.5813, 39.1928



## Tritanopia

56.6464, 72.0735, 105.5337

# Trichromacy



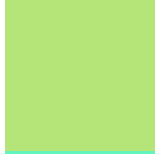
## Original Color

38.1384, 72.6291, 17.3189



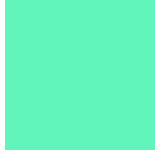
## Protanomaly

47.6604, 67.7287, 14.9759



## Deuteranomaly

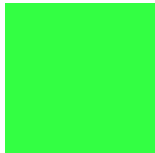
50.1896, 66.6666, 27.9920



## Tritanomaly

46.2501, 70.8306, 58.2478

# Monochromacy



## Original Color

38.1384, 72.6291, 17.3189



## Achromatopsia

39.7200, 41.7885, 45.5077



## Achromatomaly

34.7123, 49.1002, 30.2020

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.1384, 72.6291, 17.3189 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(51, 255, 67)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 67)  
}
```

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(51, 255, 67) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 67) }
```

## Border

The CSS property to change the border of an element to XYZ 38.1384, 72.6291, 17.3189 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(51, 255, 67) }
```



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

```
.border{ border-color:rgb(51, 255, 67) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 67)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 67); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 67);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
67) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.1384, 72.6291, 17.3189 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 67) }
```

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

```
.background{ background-color: rgb(51, 255,  
67) }
```

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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