

# Converting Colors

XYZ(38.5128, 72.8700, 15.1707)

Have a look what the booklet for  
XYZ(38.5128, 72.8700, 15.1707)  
contains.

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# Color

**XYZ(38.5375, 72.8828,  
15.1686)**

# Conversions

## Conversions Part 1

Format	Color
Hex	41FF33
RGB	65, 255, 51
RGB Percent	25%, 100%, 20%
CMY	0.7451, 0.0000, 0.8000
CMYK	0.75, 0.00, 0.80, 0.00
HSL	116°, 100%, 60%
HSV	116°, 80%, 100%
XYZ	38.5375, 72.8828, 15.1686
YIQ	174.9340, -47.7560, -103.7240

# Conversions

## Conversions Part 2

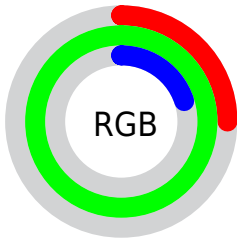
Format	Color
<a href="#">RYB</a>	<a href="#">51, 255, 241</a>
Decimal	<a href="#">4325171</a>
CIELab	<a href="#">88.39, -79.89, 76.31</a>
CIELCh	<a href="#">88, 110.479, 136.316</a>
Yxy	<a href="#">72.8828, 0.3044, 0.5757</a>
Android (android.graphics.Color)	<a href="#">4282515251 (0xFF41FF33)</a>
YUV	<a href="#">174.9340, -61.0995, -96.4121</a>
Hunter-Lab	<a href="#">85.3714, -68.8233, 49.2255</a>

# Details

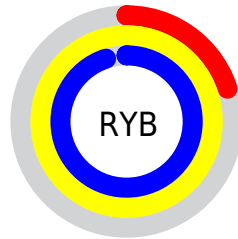
The XYZ color **38.5375, 72.8828, 15.1686** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **55.5131, 28.2909, 97.1426**, and the grayscale version is **41.0380, 43.1751, 47.0177**.

A 20% lighter version of the original color is **49.7818, 78.3976, 28.4281**, and **19.9663, 39.9325, 6.6554** is the 20% darker color. If you saturate the color by 10%, you get **36.8654, 72.0690, 12.9165**, and if you desaturate by 10%, it is **41.1783, 74.1605, 19.0748**.

# Distribution



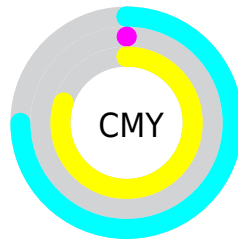
- Red (25%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (95%)



- Cyan (75%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (75%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.5375, 72.8828, 15.1686 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 38.5375, 72.8828, 15.1686 by changing the saturation by 10% instead.





 38.5375, 72.8828,  
15.1686


 38.5375, 72.8828,  
15.1686


331.1612,  
470.6085, 236.0603


 26.5792, 53.8801,  
8.7899


 72.2298, 123.3108,  
35.8952

 17.3924, 38.5058,  
4.5094


 94.6946, 155.5050,  
51.0801

 10.6117, 26.3755,  
1.9088

 121.3923,  
192.8650, 70.0374

 5.8717, 17.1048,  
0.4983

 152.6882,  
235.7755, 93.1858

 2.8072, 10.3092,  
0.0000

 188.9477,  
284.6206, 120.9438

 1.0526, 5.6045,  
0.0000

230.5361,

 0.0000, 2.6061,

339.7849, 153.7298

0.0000

277.8188,  
401.6528, 191.9625

0.0000, 0.9297,  
0.0000

0.0000, 0.0000,  
0.0000

38.5375, 72.8828,  
15.1686

38.5375, 72.8828,  
15.1686

36.8654, 72.0690,  
12.9165

41.1783, 74.1605,  
19.0748

36.0002, 71.6438,  
11.9315

44.9050, 75.9573,  
24.8674

36.0000, 71.6437,  
11.9312

49.8187, 78.3211,  
32.7450

56.0087, 81.2943,  
42.8806

■ 63.5559, 84.9151,  
55.4288

■ 72.5342, 89.2186,  
70.5308

■ 83.0125, 94.2375,  
88.3168

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.



55.9045, 72.8828, 5.5053



38.5375, 72.8828, 15.1686



30.5824, 72.8828, 49.5628

# Triad

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



38.5375, 72.8828, 15.1686



57.8892, 72.8828, 322.8559



130.6895, 72.8828, 44.9764

# Complementary

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



38.5375, 72.8828, 15.1686



55.5131, 28.2909, 97.1426

# 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.



131.6175, 72.8828, 119.1918



38.5375, 72.8828, 15.1686



84.6188, 72.8828, 318.4502

# Square

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



38.5375, 72.8828, 15.1686



39.6690, 72.8828, 238.8834



113.1117, 72.8828, 229.1277



110.8300, 72.8828, 13.6481



# Rectangle

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



38.5375, 72.8828, 15.1686



29.9269, 72.8828, 96.5420



113.1117, 72.8828, 229.1277



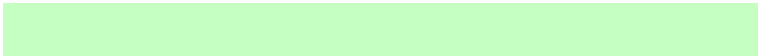
133.3722, 72.8828, 64.3428

# Sweetspot

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



38.5377, 72.8829, 15.1698



68.7632, 87.4115, 64.1691



72.4125, 82.6486, 15.2693



14.0424, 18.3857, 12.5991



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.



38.5377, 72.8829, 15.1698



36.2676, 71.7752, 12.2354



41.5701, 74.0018, 35.3875



17.8869, 20.2276, 19.1059



18.8531, 37.4572, 6.2363



1.8741, 3.6669, 0.6090



# Inverse Universe

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



55.5131, 28.2909, 97.1426



53.4913, 25.6550, 96.7403



49.6803, 26.5309, 40.5347



18.6624, 18.2332, 22.7857



27.8222, 13.2533, 50.5263

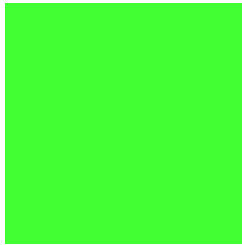


2.7444, 1.3087, 4.9212



# Previews

## White Background



This preview shows how the XYZ color 38.5375, 72.8828, 15.1686 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 38.5375, 72.8828, 15.1686 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

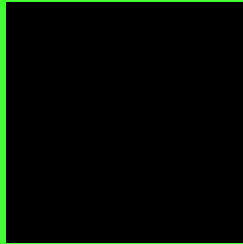
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.5375, 72.8828, 15.1686**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.5375, 72.8828, 15.1686.



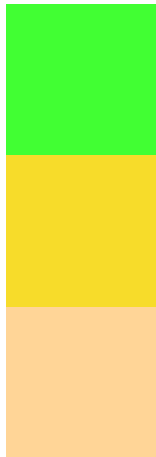
This preview shows how white text looks on a background with the XYZ color 38.5375, 72.8828,



# 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

38.5375, 72.8828, 15.1686

### Protanopia

64.3689, 71.1277, 12.5269

### Deuteranopia

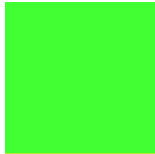
70.6202, 71.0829, 39.2764



## Tritanopia

57.2363, 72.3776, 105.5613

# Trichromacy



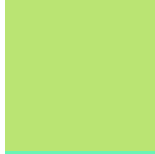
## Original Color

38.5375, 72.8828, 15.1686



## Protanomaly

48.6686, 68.2910, 13.0990



## Deuteranomaly

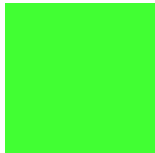
51.0876, 67.1637, 26.4909



## Tritanomaly

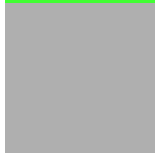
46.5169, 71.0408, 54.9766

# Monochromacy



## Original Color

38.5375, 72.8828, 15.1686



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

35.6138, 49.9483, 28.8830

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.5375, 72.8828, 15.1686 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(65, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(65, 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(65, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 255, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 38.5375, 72.8828, 15.1686 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(65, 255, 51) }
```



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

```
.border{ border-color:rgb(65, 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(65, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(65, 255,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.5375, 72.8828, 15.1686 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 255, 51) }
```

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

```
.background{ background-color: rgb(65, 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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