

# Converting Colors

XYZ(36.8675, 72.0360, 14.4532)

Have a look what the booklet for  
XYZ(36.8675, 72.0360, 14.4532)  
contains.

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# Color

**XYZ(36.8609, 72.0328,  
14.4436)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21FF2D
RGB	33, 255, 45
RGB Percent	13%, 100%, 18%
CMY	0.8706, 0.0000, 0.8235
CMYK	0.87, 0.00, 0.82, 0.00
HSL	123°, 100%, 56%
HSV	123°, 87%, 100%
XYZ	36.8609, 72.0328, 14.4436
YIQ	164.6820, -64.9020, -112.3740

# Conversions

## Conversions Part 2

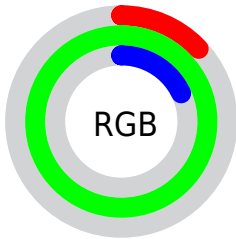
Format	Color
<a href="#">RYB</a>	<a href="#">33, 244, 255</a>
Decimal	<a href="#">2228013</a>
CIELab	<a href="#">87.98, -83.58, 77.28</a>
CIELCh	<a href="#">88, 113.837, 137.243</a>
Yxy	<a href="#">72.0328, 0.2989, 0.5840</a>
Android (android.graphics.Color)	<a href="#">4280418093 (0xFF21FF2D)</a>
YUV	<a href="#">164.6820, -59.0032, -115.4851</a>
Hunter-Lab	<a href="#">84.8721, -71.0017, 49.3205</a>

# Details

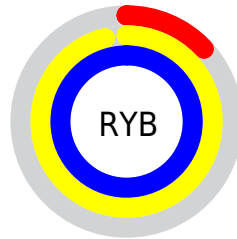
The XYZ color **36.8609, 72.0328, 14.4436** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark washed green. A complement of this color would be **57.9602, 28.8184, 87.2945**, and the grayscale version is **35.9087, 37.7787, 41.1410**.

A 20% lighter version of the original color is **47.1787, 77.0814, 27.1435**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **35.9883, 71.6222, 12.6319**, and if you desaturate by 10%, it is **38.6126, 72.8660, 17.6812**.

# Distribution



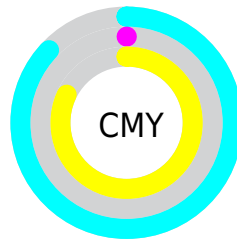
- Red (13%)
- Green (100%)
- Blue (18%)



- Red (13%)
- Yellow (96%)
- Blue (100%)



- Cyan (87%)
- Magenta (0%)
- Yellow (82%)
- Black (0%)




- Cyan (87%)
- Magenta (0%)
- Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.8609, 72.0328, 14.4436 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 36.8609, 72.0328, 14.4436 by changing the saturation by 10% instead.





 36.8609, 72.0328,  
14.4436


 36.8609, 72.0328,  
14.4436

324.0739,  
467.6558, 231.4969


 25.2730, 53.1855,  
8.2876


 69.6740, 122.1032,  
34.6025

 16.4104, 37.9509,  
4.1891


 91.6299, 154.0950,  
49.4424


 9.9077, 25.9445,  
1.7297


 117.7726,  
191.2371, 68.0140

 5.3996, 16.7822,  
0.3809

 148.4673,  
233.9139, 90.7359

 2.5207, 10.0793,  
0.0000

 184.0794,  
282.5098, 118.0266

 0.9057, 5.4516,  
0.0000

224.9743,

 0.0000, 2.5146,

337.4091, 150.3047

0.0000

271.5174,  
398.9963, 187.9886

■ 0.0000, 0.8839,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.8609, 72.0328,  
14.4436

■ 36.8609, 72.0328,  
14.4436

■ 35.9883, 71.6222,  
12.6319


■ 38.6126, 72.8660,  
17.6812


■ 35.8379, 71.5512,  
12.3301


■ 41.4034, 74.1997,  
22.5545


■ 45.3615, 76.0963,  
29.2421

■ 50.5966, 78.6089,  
37.8987

 57.2054, 81.7845,  
48.6621

 65.2756, 85.6655,  
61.6581

 74.8873, 90.2909,  
77.0024

 86.1149, 95.6966,  
94.8029

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.



54.1364, 72.0328, 4.7818



36.8609, 72.0328, 14.4436



29.1486, 72.0328, 49.8505

# Triad

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



36.8609, 72.0328, 14.4436



57.5797, 72.0328, 333.0118



131.3498, 72.0328, 41.9574

# Complementary

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



36.8609, 72.0328, 14.4436



57.9602, 28.8184, 87.2945

# 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.



132.9883, 72.0328, 116.2634



36.8609, 72.0328, 14.4436



85.1221, 72.0328, 325.1381

# Square

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



36.8609, 72.0328, 14.4436



38.8051, 72.0328, 247.2182



114.3550, 72.0328, 229.8633



110.3381, 72.0328, 11.9288



# Rectangle

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



36.8609, 72.0328, 14.4436



28.6582, 72.0328, 98.8161



114.3550, 72.0328, 229.8633



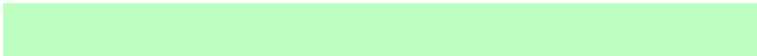
134.3496, 72.0328, 61.0627

# Sweetspot

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



36.8611, 72.0329, 14.4447



66.2181, 86.1190, 63.1684



73.3081, 90.8451, 15.1101



13.5265, 18.1218, 12.4831



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.



36.8611, 72.0329, 14.4447



35.8379, 71.5512, 12.3301



42.3122, 74.2133, 43.1494



17.8114, 20.1841, 19.3098



18.7421, 37.3934, 6.5270



1.8382, 3.6462, 0.7059



# Inverse Universe

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



57.9602, 28.8184, 87.2945



57.1479, 27.6232, 85.7000



46.0107, 24.0386, 24.3694



18.7477, 18.2824, 22.5547



29.8794, 14.4411, 44.8771

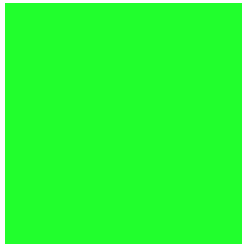


2.9217, 1.4111, 4.4352



# Previews

## White Background



This preview shows how the XYZ color 36.8609, 72.0328, 14.4436 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

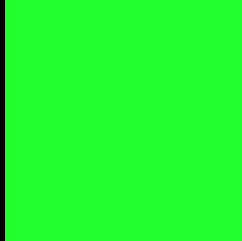
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.8609, 72.0328, 14.4436 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 36.8609, 72.0328, 14.4436**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.8609, 72.0328, 14.4436.



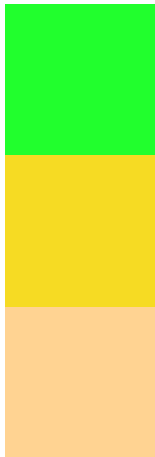
This preview shows how white text looks on a background with the XYZ color 36.8609, 72.0328,



# 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

36.8609, 72.0328, 14.4436

### Protanopia

63.6409, 70.3772, 11.8200

### Deuteranopia

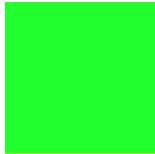
69.7226, 69.9239, 37.0160



## Tritanopia

55.6703, 71.5703, 105.4881

# Trichromacy



## Original Color

36.8609, 72.0328, 14.4436



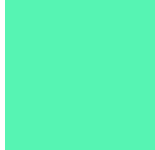
## Protanomaly

45.5850, 66.2947, 12.3130



## Deuteranomaly

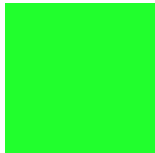
47.6850, 65.0410, 24.5089



## Tritanomaly

44.3251, 69.9345, 53.8104

# Monochromacy



## Original Color

36.8609, 72.0328, 14.4436



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

30.9814, 45.5506, 25.2484

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.8609, 72.0328, 14.4436 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(33, 255, 45)` looks like.

```
.text, #text, p{  
    color:rgb(33, 255, 45)  
}
```

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(33, 255, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 255, 45) }
```

## Border

The CSS property to change the border of an element to XYZ 36.8609, 72.0328, 14.4436 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(33, 255, 45) }
```



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

```
.border{ border-color:rgb(33, 255, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 255, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 255, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 255, 45);  
box-shadow:4px 4px 4px 4px rgb(33, 255,  
45) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.8609, 72.0328, 14.4436 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 255, 45) }
```

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

```
.background{ background-color: rgb(33, 255,  
45) }
```

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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