

# Converting Colors

XYZ(36.7434, 71.9133, 17.0984)

Have a look what the booklet for  
XYZ(36.7434, 71.9133, 17.0984)  
contains.

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# Color

**XYZ(36.7434, 71.9133,  
17.0984)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 00FF42                        |
| RGB         | 0, 255, 66                    |
| RGB Percent | 0%, 100%, 26%                 |
| CMY         | 1.0000, 0.0000, 0.7411        |
| CMYK        | 1.00, 0.00, 0.74, 0.00        |
| HSL         | 136°, 100%, 50%               |
| HSV         | 136°, 100%, 100%              |
| XYZ         | 36.7434, 71.9133, 17.0984     |
| YIQ         | 157.2090, -91.3110, -112.8390 |

# Conversions

## Conversions Part 2

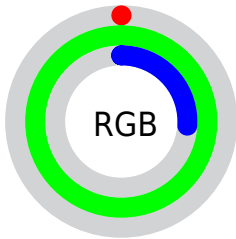
| <b>Format</b>                       | <b>Color</b>                     |
|-------------------------------------|----------------------------------|
| <b>RYB</b>                          | 0, 203, 255                      |
| Decimal                             | 65346                            |
| CIELab                              | 87.93, -83.72, 71.28             |
| CIELCh                              | 88, 109.959, 139.589             |
| Yxy                                 | 71.9133, 0.2922,<br>0.5719       |
| Android<br>(android.graphics.Color) | 4278255426<br>(0xFF00FF42)       |
| YUV                                 | 157.2090, -44.9660,<br>-137.8723 |
| Hunter-Lab                          | 84.8017, -71.0614,<br>47.4067    |

# Details

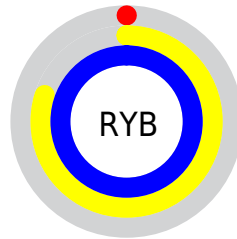
The XYZ color **36.7434, 71.9133, 17.0984** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark saturated green. A complement of this color would be **50.4255, 24.9344, 50.2999**, and the grayscale version is **32.3693, 34.0550, 37.0859**.

A 20% lighter version of the original color is **46.9329, 76.8522, 31.7624**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **36.7434, 71.9134, 17.0985**, and if you desaturate by 10%, it is **37.8096, 72.3876, 20.5546**.

# Distribution



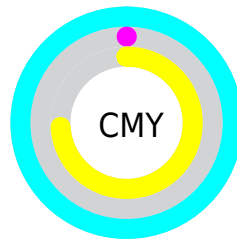
- Red (0%)
- Green (100%)
- Blue (26%)



- Red (0%)
- Yellow (80%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (74%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.7434, 71.9133, 17.0984 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 36.7434, 71.9133, 17.0984 by changing the saturation by 10% instead.





 36.7434, 71.9133,  
17.0984


 36.7434, 71.9133,  
17.0984


323.5731,  
467.2398, 247.8019


 25.1816, 53.0879,  
10.1420


 69.4944, 121.9333,  
39.2878

 16.3419, 37.8729,  
5.3864


 91.4143, 153.8966,  
55.3580


 9.8588, 25.8841,  
2.4130


 117.5176,  
191.0079, 75.3030

 5.3670, 16.7369,  
0.7935

 148.1697,  
233.6518, 99.5416

 2.5011, 10.0471,  
0.0000

 183.7360,  
282.2125, 128.4923

 0.8958, 5.4302,  
0.0000

224.5817,

 0.0000, 2.5018,

337.0745, 162.5735

0.0000

271.0723,  
398.6221, 202.2039

■ 0.0000, 0.8776,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.7434, 71.9133,  
17.0984

■ 36.7434, 71.9133,  
17.0984


■ 36.7434, 71.9134,  
17.0985


■ 37.8096, 72.3876,  
20.5546


■ 39.6146, 73.2196,  
25.0904


■ 42.3380, 74.5002,  
30.7916


■ 46.0936, 76.2865,  
37.7323

 50.9781, 78.6271,  
45.9806

 57.0765, 81.5644,  
55.5993

 64.4656, 85.1367,  
66.6473

 73.2156, 89.3792,  
79.1799

 83.3916, 94.3242,  
93.2495

# Harmonies

## Analogous

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



52.8268, 71.9133, 5.8784



36.7434, 71.9133, 17.0984



29.8363, 71.9133, 55.0338

# Triad

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



36.7434, 71.9133, 17.0984



59.6532, 71.9133, 322.8673



127.5835, 71.9133, 39.2332

# Complementary

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



36.7434, 71.9133, 17.0984



50.4255, 24.9344, 50.2999

# 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.



130.7698, 71.9133, 107.3464



36.7434, 71.9133, 17.0984



86.6537, 71.9133, 307.7582

# Square

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



36.7434, 71.9133, 17.0984



40.6387, 71.9133, 247.3329



114.2852, 71.9133, 213.8553



106.4487, 71.9133, 11.8397



# Rectangle

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



36.7434, 71.9133, 17.0984



29.7642, 71.9133, 104.8522



114.2852, 71.9133, 213.8553



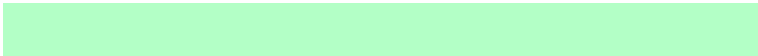
130.9632, 71.9133, 56.6598

# Sweetspot

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



36.7437, 71.9135, 17.0996



64.4628, 85.1353, 66.6431



57.3094, 82.6291, 12.9288



13.0962, 17.8830, 13.2293



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.



36.7437, 71.9135, 17.0996



36.7434, 71.9134, 17.0985



45.1919, 75.2928, 61.5870



17.9645, 20.2453, 20.1160



19.2504, 37.5967, 9.2038



1.9166, 3.6776, 1.1189



# Inverse Universe

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



50.4255, 24.9344, 50.2999



50.4252, 24.9341, 50.2985



42.1586, 21.6276, 6.7668



18.5801, 18.2153, 21.6718



26.4125, 13.0543, 26.6202

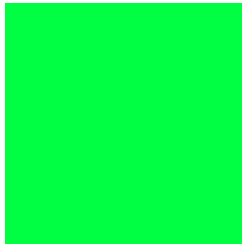


2.6163, 1.2889, 2.8267



# Previews

## White Background



This preview shows how the XYZ color 36.7434, 71.9133, 17.0984 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 36.7434, 71.9133, 17.0984 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

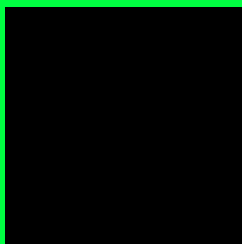
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

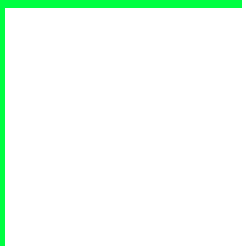
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 36.7434, 71.9133, 17.0984**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7434, 71.9133, 17.0984.



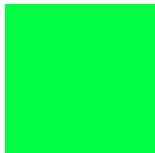
This preview shows how white text looks on a background with the XYZ color 36.7434, 71.9133,



# Color Blindness Simulation

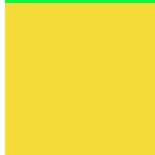
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

36.7434, 71.9133, 17.0984



### Protanopia

63.7262, 70.3709, 14.0951



### Deuteranopia

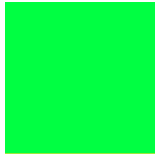
69.8796, 69.9866, 37.8427



## Tritanopia

55.5366, 71.5014, 105.4818

# Trichromacy



## Original Color

36.7434, 71.9133, 17.0984



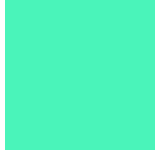
## Protanomaly

43.3825, 65.1074, 14.5555



## Deuteranomaly

45.6394, 63.9276, 27.0733



## Tritanomaly

44.0376, 69.7024, 57.5873

# Monochromacy



## Original Color

36.7434, 71.9133, 17.0984



## Achromatopsia

32.0474, 33.7164, 36.7171



## Achromatomaly

27.9636, 42.3045, 25.7605

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7434, 71.9133, 17.0984 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(0, 255, 66)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 66)  
}
```

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(0, 255, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 66) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7434, 71.9133, 17.0984 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(0, 255, 66) }
```



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

```
.border{ border-color:rgb(0, 255, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 66);  
box-shadow:4px 4px 4px 4px rgb(0, 255, 66)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 36.7434, 71.9133, 17.0984 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 66) }
```

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

```
.background{ background-color: rgb(0, 255,  
66) }
```

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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