

# Converting Colors

XYZ(37.0831, 72.0702, 17.9406)

Have a look what the booklet for  
XYZ(37.0831, 72.0702, 17.9406)  
contains.

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# Color

**XYZ(37.0784, 72.0683,  
17.9176)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0EFF47
RGB	14, 255, 71
RGB Percent	5%, 100%, 28%
CMY	0.9451, 0.0000, 0.7215
CMYK	0.95, 0.00, 0.72, 0.00
HSL	134°, 100%, 53%
HSV	134°, 95%, 100%
XYZ	37.0784, 72.0683, 17.9176
YIQ	161.9650, -84.5720, -108.3160

# Conversions

## Conversions Part 2

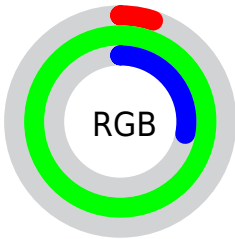
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	14, 209, 255
Decimal	982855
CIE Lab	88.00, -82.94, 69.71
CIE LCh	88, 108.349, 139.952
Yxy	72.0683, 0.2918, 0.5672
Android (android.graphics.Color)	4279172935 (0xFF0EFF47)
YUV	161.9650, -44.8457, -129.7653
Hunter-Lab	84.8931, -70.6001, 46.9113

# Details

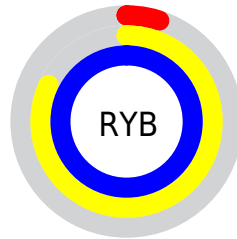
The XYZ color **37.0784, 72.0683, 17.9176** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark saturated green. A complement of this color would be **51.5893, 25.6510, 55.6542**, and the grayscale version is **34.5584, 36.3581, 39.5940**.

A 20% lighter version of the original color is **47.4682, 77.0980, 33.1485**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **36.5841, 71.8496, 16.2594**, and if you desaturate by 10%, it is **38.4815, 72.7075, 21.7850**.

# Distribution



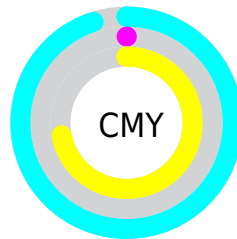
- Red (5%)
- Green (100%)
- Blue (28%)



- Red (5%)
- Yellow (82%)
- Blue (100%)



- Cyan (95%)
- Magenta (0%)
- Yellow (72%)
- Black (0%)




- Cyan (95%)
- Magenta (0%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.0784, 72.0683, 17.9176 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 37.0784, 72.0683, 17.9176 by changing the saturation by 10% instead.





 37.0784, 72.0683,  
17.9176


 37.0784, 72.0683,  
17.9176


324.9995,  
467.7793, 252.6267

 25.4422, 53.2145,  
10.7220


 70.0064, 122.1536,  
40.7089


 16.5373, 37.9740,  
5.7684


 92.0289, 154.1539,  
57.1417


 9.9984, 25.9625,  
2.6383


 118.2441,  
191.3052, 77.4907

 5.4601, 16.7956,  
0.9121

 149.0175,  
233.9917, 102.1743

 2.5572, 10.0889,  
0.0000

 184.7143,  
282.5980, 131.6112

 0.9242, 5.4579,  
0.0000

225.7001,

 0.0000, 2.5184,

337.5085, 166.2199

0.0000

272.3400,  
399.1074, 206.4189

■ 0.0000, 0.8858,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.0784, 72.0683,  
17.9176

■ 37.0784, 72.0683,  
17.9176

■ 36.5841, 71.8496,  
16.2594

■ 38.4815, 72.7075,  
21.7850

■ 40.7514, 73.7684,  
26.8266

■ 44.0151, 75.3148,  
33.1299

■ 48.3777, 77.3991,  
40.7732

■ 53.9301, 80.0668,  
49.8279

■ 60.7537, 83.3584,  
60.3607

■ 68.9224, 87.3108,  
72.4339

■ 78.5045, 91.9579,  
86.1060

■ 89.5635, 97.3312,  
101.4326

# Harmonies

## Analogous

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



52.9097, 72.0683, 6.3274



37.0784, 72.0683, 17.9176



30.3084, 72.0683, 56.1768

# Triad

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



37.0784, 72.0683, 17.9176



60.1934, 72.0683, 318.3963



126.5957, 72.0683, 39.2514

# Complementary

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



37.0784, 72.0683, 17.9176



51.5893, 25.6510, 55.6542

# 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.



129.9676, 72.0683, 105.9962



37.0784, 72.0683, 17.9176



86.8835, 72.0683, 302.4988

# Square

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



37.0784, 72.0683, 17.9176



41.2532, 72.0683, 245.4936



113.9886, 72.0683, 210.1901



105.6841, 72.0683, 12.1817



# Rectangle

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



37.0784, 72.0683, 17.9176



30.3000, 72.0683, 105.7103



113.9886, 72.0683, 210.1901



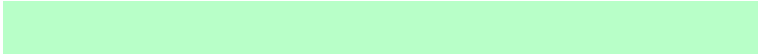
129.9897, 72.0683, 56.3644

# Sweetspot

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



37.0787, 72.0684, 17.9188



65.9141, 85.8541, 68.0412



59.3306, 83.6619, 13.4368



13.3623, 18.0154, 13.4581



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.



37.0787, 72.0684, 17.9188



36.5841, 71.8496, 16.2594



45.3158, 75.3632, 61.2947



17.9476, 20.2386, 20.0272



19.1636, 37.5620, 8.7470



1.9061, 3.6734, 1.0635



# Inverse Universe

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



51.5893, 25.6510, 55.6542



51.0544, 25.1857, 53.6118



42.7818, 22.1280, 9.2743



18.5981, 18.2226, 21.7668



26.7380, 13.1845, 28.3343

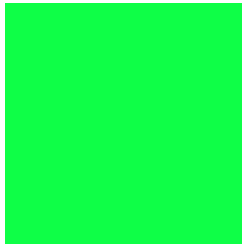


2.6456, 1.3006, 2.9810



# Previews

## White Background



This preview shows how the XYZ color 37.0784, 72.0683, 17.9176 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

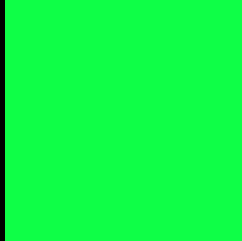
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.0784, 72.0683, 17.9176 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

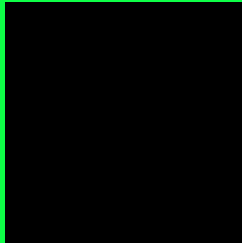
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.0784, 72.0683, 17.9176**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.0784, 72.0683, 17.9176.



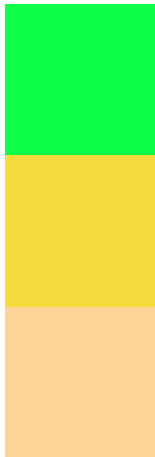
This preview shows how white text looks on a background with the XYZ color 37.0784, 72.0683,



# 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

37.0784, 72.0683, 17.9176

### Protanopia

63.8572, 70.4233, 14.7849

### Deuteranopia

69.9591, 70.0185, 38.2614



## Tritanopia

55.5366, 71.5014, 105.4818

# Trichromacy



## Original Color

37.0784, 72.0683, 17.9176



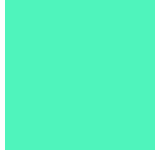
## Protanomaly

44.5087, 65.6719, 15.3311



## Deuteranomaly

46.8566, 64.5341, 28.0759



## Tritanomaly

44.6522, 69.9945, 58.7338

# Monochromacy



## Original Color

37.0784, 72.0683, 17.9176



## Achromatopsia

34.3422, 36.1307, 39.3463



## Achromatomaly

29.8867, 44.2530, 27.7354

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.0784, 72.0683, 17.9176 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(14, 255, 71)` looks like.

```
.text, #text, p{  
    color:rgb(14, 255, 71)  
}
```

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(14, 255, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(14, 255, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 37.0784, 72.0683, 17.9176 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(14, 255, 71) }
```



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

```
.border{ border-color:rgb(14, 255, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(14, 255, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(14, 255, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(14, 255, 71);  
box-shadow:4px 4px 4px 4px rgb(14, 255,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.0784, 72.0683, 17.9176 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(14, 255, 71) }
```

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

```
.background{ background-color: rgb(14, 255,  
71) }
```

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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