

# Converting Colors

XYZ(37.6207, 72.2643, 21.7182)

Have a look what the booklet for  
XYZ(37.6207, 72.2643, 21.7182)  
contains.

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# Color

**XYZ(37.6055, 72.2582,  
21.6381)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF5A
RGB	0, 255, 90
RGB Percent	0%, 100%, 35%
CMY	1.0000, 0.0000, 0.6470
CMYK	1.00, 0.00, 0.65, 0.00
HSL	141°, 100%, 50%
HSV	141°, 100%, 100%
XYZ	37.6055, 72.2582, 21.6381
YIQ	159.9450, -99.0150, -105.3750

# Conversions

## Conversions Part 2

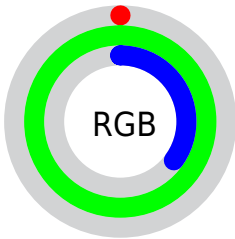
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 188, 255
Decimal	65370
CIELab	88.09, -81.61, 62.76
CIELCh	88, 102.952, 142.441
Yxy	72.2582, 0.2860, 0.5495
Android (android.graphics.Color)	4278255450 (0xFF00FF5A)
YUV	159.9450, -34.4829, -140.2718
Hunter-Lab	85.0048, -69.7914, 44.4110

# Details

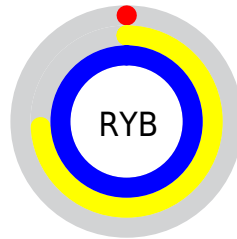
The XYZ color **37.6055, 72.2582, 21.6381** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated green. A complement of this color would be **48.0321, 23.9770, 37.6963**, and the grayscale version is **33.5764, 35.3250, 38.4689**.

A 20% lighter version of the original color is **48.2844, 77.3772, 39.5846**, and **19.9495, 39.5637, 7.6837** is the 20% darker color. If you saturate the color by 10%, you get **37.6054, 72.2582, 21.6377**, and if you desaturate by 10%, it is **38.8015, 72.7844, 25.7776**.

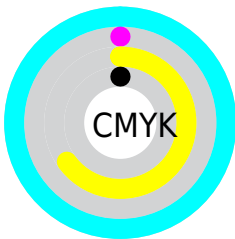
# Distribution



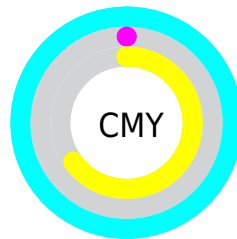
- Red (0%)
- Green (100%)
- Blue (35%)



- Red (0%)
- Yellow (74%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6055, 72.2582, 21.6381 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 37.6055, 72.2582, 21.6381 by changing the saturation by 10% instead.





 37.6055, 72.2582,  
21.6381


 37.6055, 72.2582,  
21.6381


327.2348,  
468.4398, 273.5421

 25.8525, 53.3696,  
13.3955


 70.8109, 122.4236,  
47.0416


 16.8454, 38.0979,  
7.5675


 92.9939, 154.4691,  
65.0396


 10.2190, 26.0587,  
3.7357


 119.3844,  
191.6691, 87.1264

 5.6077, 16.8676,  
1.4815

 150.3476,  
234.4080, 113.7206

 2.6464, 10.1401,  
0.2041

 186.2488,  
283.0701, 145.2407

 0.9697, 5.4920,  
0.0000

227.4536,

 0.0000, 2.5387,

338.0398, 182.1053

0.0000

274.3271,  
399.7016, 224.7329

■ 0.0000, 0.8959,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.6055, 72.2582,  
21.6381

■ 37.6055, 72.2582,  
21.6381


■ 37.6054, 72.2582,  
21.6377


■ 38.8015, 72.7844,  
25.7776

■ 40.7013, 73.6543,  
30.8123


■ 43.4785, 74.9564,  
36.7968


■ 47.2419, 76.7459,  
43.7787

 52.0837, 79.0694,  
51.8019

 58.0849, 81.9677,  
60.9076

 65.3182, 85.4778,  
71.1348

 73.8504, 89.6331,  
82.5204

 83.7435, 94.4650,  
95.0996

# Harmonies

## Analogous

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



52.1671, 72.2582, 8.1578



37.6055, 72.2582, 21.6381



31.6652, 72.2582, 62.1750

# Triad

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



37.6055, 72.2582, 21.6381



62.6456, 72.2582, 303.6913



122.2987, 72.2582, 37.4839

# Complementary

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



37.6055, 72.2582, 21.6381



48.0321, 23.9770, 37.6963

# Split Complementary

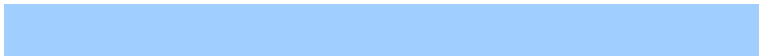
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



127.0139, 72.2582, 97.8672



37.6055, 72.2582, 21.6381



88.3528, 72.2582, 281.9010

# Square

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



37.6055, 72.2582, 21.6381



43.7031, 72.2582, 242.2161



113.3870, 72.2582, 193.4391



101.7176, 72.2582, 12.7544



# Rectangle

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



37.6055, 72.2582, 21.6381



32.0843, 72.2582, 111.5980



113.3870, 72.2582, 193.4391



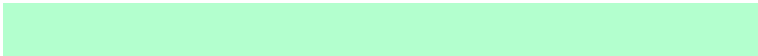
125.9634, 72.2582, 52.9648

# Sweetspot

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



37.6058, 72.2583, 21.6393



65.3149, 85.4762, 71.1304



51.4344, 79.6004, 12.6539



13.2943, 17.9622, 14.2721



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.



37.6058, 72.2583, 21.6393



37.6054, 72.2582, 21.6377



48.2522, 76.5169, 77.7024



18.0363, 20.2741, 20.4942



19.7135, 37.7820, 11.6426



1.9690, 3.6985, 1.3947



# Inverse Universe

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



48.0321, 23.9770, 37.6963



48.0317, 23.9767, 37.6945



41.5942, 21.4018, 3.7944



18.5045, 18.1851, 21.2737



25.1712, 12.5578, 20.0836

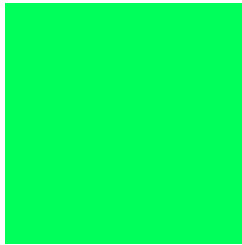


2.5028, 1.2435, 2.2289



# Previews

## White Background



This preview shows how the XYZ color 37.6055, 72.2582, 21.6381 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 37.6055, 72.2582, 21.6381 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

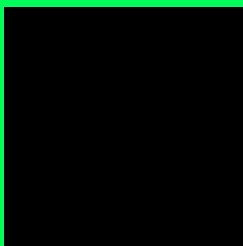
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.6055, 72.2582, 21.6381**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6055, 72.2582, 21.6381.



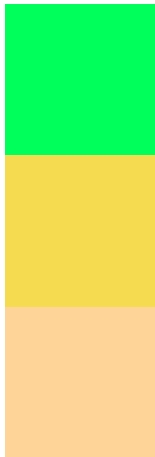
This preview shows how white text looks on a background with the XYZ color 37.6055, 72.2582,



# 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

37.6055, 72.2582, 21.6381

### Protanopia

64.0877, 70.4753, 17.8147

### Deuteranopia

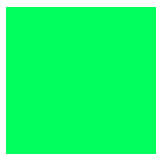
70.4510, 70.6140, 39.6225



## Tritanopia

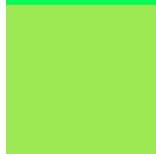
55.8054, 71.6399, 105.4944

# Trichromacy



## Original Color

37.6055, 72.2582, 21.6381



## Protanomaly

43.9744, 65.3219, 18.6782



## Deuteranomaly

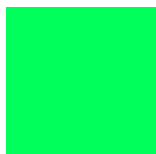
46.6061, 64.7532, 30.8111



## Tritanomaly

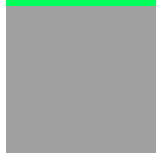
45.1027, 70.1374, 62.7905

# Monochromacy



## Original Color

37.6055, 72.2582, 21.6381



## Achromatopsia

33.4132, 35.1533, 38.2819



## Achromatomaly

29.3678, 43.6043, 29.7903

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6055, 72.2582, 21.6381 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, 90)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 90)  
}
```

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, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 90) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6055, 72.2582, 21.6381 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, 90) }
```



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

```
.border{ border-color:rgb(0, 255, 90) }
```

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, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 90);  
box-shadow:4px 4px 4px 4px rgb(0, 255, 90)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 37.6055, 72.2582, 21.6381 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, 90) }
```

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

```
.background{ background-color: rgb(0, 255,  
90) }
```

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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