

# Converting Colors

XYZ(37.8243, 72.3537, 22.4311)

Have a look what the booklet for  
XYZ(37.8243, 72.3537, 22.4311)  
contains.

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# Color

**XYZ(37.8109, 72.3490,  
22.3279)**

# Conversions

## Conversions Part 1

Format	Color
Hex	06FF5D
RGB	6, 255, 93
RGB Percent	2%, 100%, 36%
CMY	0.9764, 0.0000, 0.6353
CMYK	0.98, 0.00, 0.64, 0.00
HSL	141°, 100%, 51%
HSV	141°, 98%, 100%
XYZ	37.8109, 72.3490, 22.3279
YIQ	162.0810, -96.4020, -103.1700

# Conversions

## Conversions Part 2

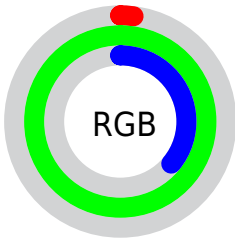
<b>Format</b>	<b>Color</b>
<b>RYB</b>	6, 191, 255
Decimal	458589
CIELab	88.14, -81.13, 61.61
CIELCh	88, 101.872, 142.790
Yxy	72.3490, 0.2854, 0.5461
Android (android.graphics.Color)	4278648669 (0xFF06FF5D)
YUV	162.0810, -34.0569, -136.8830
Hunter-Lab	85.0582, -69.5033, 43.9770

# Details

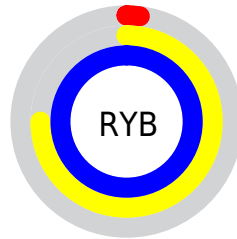
The XYZ color **37.8109, 72.3490, 22.3279** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated green. A complement of this color would be **48.3736, 24.2178, 39.1732**, and the grayscale version is **34.5691, 36.3694, 39.6063**.

A 20% lighter version of the original color is **48.6560, 77.5415, 40.8363**, and **20.0144, 39.5897, 8.0255** is the 20% darker color. If you saturate the color by 10%, you get **37.5672, 72.2429, 21.4364**, and if you desaturate by 10%, it is **39.1331, 72.9363, 26.6523**.

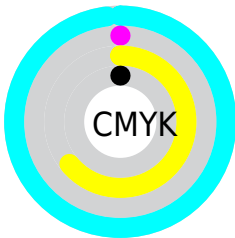
# Distribution



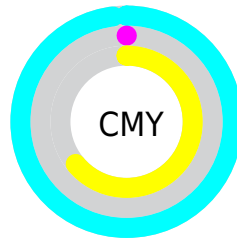
- Red (2%)
- Green (100%)
- Blue (36%)



- Red (2%)
- Yellow (75%)
- Blue (100%)



- Cyan (98%)
- Magenta (0%)
- Yellow (64%)
- Black (0%)




- Cyan (98%)
- Magenta (0%)
- Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8109, 72.3490, 22.3279 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 37.8109, 72.3490, 22.3279 by changing the saturation by 10% instead.





 37.8109, 72.3490,  
22.3279


 37.8109, 72.3490,  
22.3279


328.1030,  
468.7554, 277.2631

 26.0125, 53.4438,  
13.8974


 71.1240, 122.5526,  
48.1965


 16.9657, 38.1572,  
7.9114


 93.3694, 154.6198,  
66.4716


 10.3052, 26.1047,  
3.9514


 119.8278,  
191.8431, 88.8654

 5.6656, 16.9020,  
1.5987

 150.8646,  
234.6069, 115.7964

 2.6815, 10.1646,  
0.2899

 186.8452,  
283.2957, 147.6832

 0.9877, 5.5083,  
0.0000

228.1349,

 0.0000, 2.5484,

338.2938, 184.9441

0.0000

275.0990,  
399.9856, 227.9979

■ 0.0000, 0.9008,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.8109, 72.3490,  
22.3279

■ 37.8109, 72.3490,  
22.3279


■ 37.5672, 72.2429,  
21.4364


■ 39.1331, 72.9363,  
26.6523

■ 41.2259, 73.9013,  
31.8933


■ 44.2252, 75.3132,  
38.1040


■ 48.2355, 77.2248,  
45.3318

 53.3459, 79.6811,  
53.6208

 59.6354, 82.7221,  
63.0121

 67.1755, 86.3838,  
73.5450

 76.0316, 90.6993,  
85.2564

 86.2648, 95.6992,  
98.1816

# Harmonies

## Analogous

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



52.1773, 72.3490, 8.5447



37.8109, 72.3490, 22.3279



31.9894, 72.3490, 63.1165

# Triad

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



37.8109, 72.3490, 22.3279



63.0550, 72.3490, 300.7368



121.5920, 72.3490, 37.4150

# Complementary

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



37.8109, 72.3490, 22.3279



48.3736, 24.2178, 39.1732

# Split Complementary

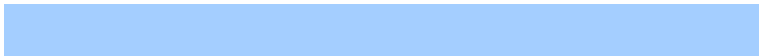
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



126.4589, 72.3490, 96.8319



37.8109, 72.3490, 22.3279



88.5425, 72.3490, 278.3370

# Square

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



37.8109, 72.3490, 22.3279



44.1599, 72.3490, 241.0932



113.2002, 72.3490, 190.8703



101.1433, 72.3490, 12.9724



# Rectangle

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



37.8109, 72.3490, 22.3279



32.4670, 72.3490, 112.3445



113.2002, 72.3490, 190.8703



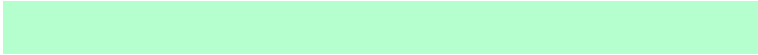
125.2747, 72.3490, 52.6640

# Sweetspot

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



37.8113, 72.3492, 22.3291



66.0765, 85.8493, 72.0474



52.8069, 80.3042, 12.8896



13.4371, 18.0322, 14.4435



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.



37.8113, 72.3492, 22.3291



37.5672, 72.2429, 21.4364



47.9093, 76.3884, 75.5045



18.0336, 20.2730, 20.4799



19.6931, 37.7738, 11.5353



1.9668, 3.6976, 1.3830



# Inverse Universe

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



48.3736, 24.2178, 39.1732



48.1142, 24.0097, 38.1292



41.8286, 21.5998, 4.7080



18.5073, 18.1862, 21.2886



25.2141, 12.5749, 20.3095

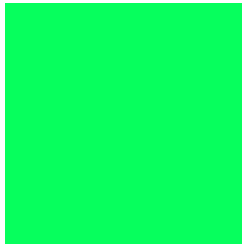


2.5067, 1.2451, 2.2499



# Previews

## White Background



This preview shows how the XYZ color 37.8109, 72.3490, 22.3279 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

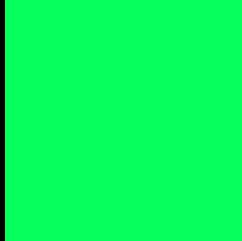
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.8109, 72.3490, 22.3279 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 37.8109, 72.3490, 22.3279**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.8109, 72.3490, 22.3279.



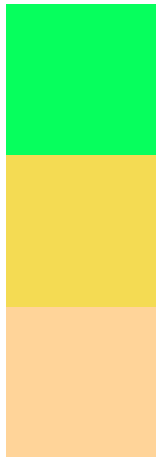
This preview shows how white text looks on a background with the XYZ color 37.8109, 72.3490,



# 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

37.8109, 72.3490, 22.3279

### Protanopia

64.2011, 70.5207, 18.4117

### Deuteranopia

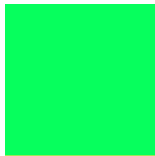
70.5333, 70.6469, 40.0557



## Tritanopia

55.8054, 71.6399, 105.4944

# Trichromacy



## Original Color

37.8109, 72.3490, 22.3279



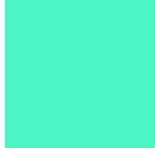
## Protanomaly

44.4815, 65.5694, 19.3286



## Deuteranomaly

47.1500, 65.0180, 31.5374



## Tritanomaly

45.3751, 70.2647, 63.3955

# Monochromacy



## Original Color

37.8109, 72.3490, 22.3279



## Achromatopsia

34.3422, 36.1307, 39.3463



## Achromatomaly

30.0810, 44.2893, 30.6302

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8109, 72.3490, 22.3279 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(6, 255, 93)` looks like.

```
.text, #text, p{  
    color:rgb(6, 255, 93)  
}
```

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(6, 255, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(6, 255, 93) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8109, 72.3490, 22.3279 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(6, 255, 93) }
```



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

```
.border{ border-color:rgb(6, 255, 93) }
```

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

Here you see how a box with a 4 pixel `rgb(6, 255, 93)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(6, 255, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(6, 255, 93);  
box-shadow:4px 4px 4px 4px rgb(6, 255, 93)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 37.8109, 72.3490, 22.3279 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(6, 255, 93) }
```

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

```
.background{ background-color: rgb(6, 255,  
93) }
```

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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