

# Converting Colors

XYZ(37.7779, 72.3405, 21.9461)

Have a look what the booklet for  
XYZ(37.7779, 72.3405, 21.9461)  
contains.

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# Color

**XYZ(37.7610, 72.3334,  
21.8691)**

# Conversions

## Conversions Part 1

Format	Color
Hex	09FF5B
RGB	9, 255, 91
RGB Percent	4%, 100%, 36%
CMY	0.9647, 0.0000, 0.6431
CMYK	0.96, 0.00, 0.64, 0.00
HSL	140°, 100%, 52%
HSV	140°, 96%, 100%
XYZ	37.7610, 72.3334, 21.8691
YIQ	162.7500, -93.9720, -103.1560

# Conversions

## Conversions Part 2

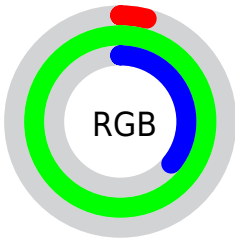
<b>Format</b>	<b>Color</b>
<b>RYB</b>	9, 194, 255
Decimal	655195
CIELab	88.13, -81.26, 62.41
CIELCh	88, 102.461, 142.477
Yxy	72.3334, 0.2861, 0.5481
Android (android.graphics.Color)	4278845275 (0xFF09FF5B)
YUV	162.7500, -35.3727, -134.8388
Hunter-Lab	85.0490, -69.5835, 44.2888

# Details

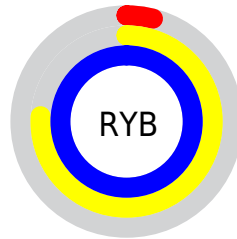
The XYZ color **37.7610, 72.3334, 21.8691** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated green. A complement of this color would be **48.8810, 24.4729, 41.6847**, and the grayscale version is **34.8895, 36.7065, 39.9733**.

A 20% lighter version of the original color is **48.4977, 77.4781, 40.0024**, and **19.9743, 39.5736, 7.8140** is the 20% darker color. If you saturate the color by 10%, you get **37.3997, 72.1759, 20.5543**, and if you desaturate by 10%, it is **39.1437, 72.9516, 26.2069**.

# Distribution



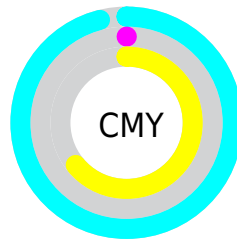
- Red (4%)
- Green (100%)
- Blue (36%)



- Red (4%)
- Yellow (76%)
- Blue (100%)



- Cyan (96%)
- Magenta (0%)
- Yellow (64%)
- Black (0%)



- Cyan (96%)
- Magenta (0%)
- Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7610, 72.3334, 21.8691 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 37.7610, 72.3334, 21.8691 by changing the saturation by 10% instead.



37.7610, 72.3334,  
21.8691

37.7610, 72.3334,  
21.8691

327.8922,  
468.7012, 274.7931

25.9736, 53.4311,  
13.5634

71.0479, 122.5304,  
47.4290

16.9365, 38.1470,  
7.6823

93.2782, 154.5939,  
65.5202

10.2842, 26.0968,  
3.8075

119.7201,  
191.8132, 87.7103

5.6515, 16.8961,  
1.5204

150.7391,  
234.5728, 114.4178

2.6730, 10.1604,  
0.2330

186.7004,  
283.2570, 146.0613

0.9833, 5.5055,  
0.0000

227.9695,

0.0000, 2.5468,

338.2502, 183.0593

0.0000

274.9116,  
399.9368, 225.8304

■ 0.0000, 0.9000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.7610, 72.3334,  
21.8691

■ 37.7610, 72.3334,  
21.8691


■ 37.3997, 72.1759,  
20.5543


■ 39.1437, 72.9516,  
26.2069


■ 41.3261, 73.9618,  
31.5018


■ 44.4356, 75.4284,  
37.8105


■ 48.5752, 77.4035,  
45.1837

 53.8333, 79.9318,  
53.6684

 60.2885, 83.0529,  
63.3088

 68.0120, 86.8026,  
74.1467

 77.0693, 91.2139,  
86.2215

 87.5213, 96.3175,  
99.5712

# Harmonies

## Analogous

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



52.2752, 72.3334, 8.3160



37.7610, 72.3334, 21.8691



31.8394, 72.3334, 62.3910

# Triad

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



37.7610, 72.3334, 21.8691



62.7689, 72.3334, 302.3458



122.0804, 72.3334, 37.6359

# Complementary

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



37.7610, 72.3334, 21.8691



48.8810, 24.4729, 41.6847

# Split Complementary

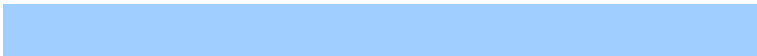
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



126.7905, 72.3334, 97.7647



37.7610, 72.3334, 21.8691



88.3684, 72.3334, 280.6185

# Square

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



37.7610, 72.3334, 21.8691



43.8756, 72.3334, 241.4170



113.2625, 72.3334, 192.7466



101.6007, 72.3334, 12.9161



# Rectangle

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



37.7610, 72.3334, 21.8691



32.2643, 72.3334, 111.6319



113.2625, 72.3334, 192.7466



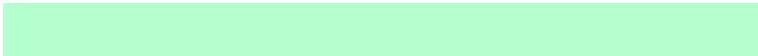
125.7306, 72.3334, 53.0700

# Sweetspot

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



37.7613, 72.3336, 21.8703



65.9319, 85.7915, 71.2859



53.9643, 80.8990, 13.0296



13.4032, 18.0187, 14.2650



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.



37.7613, 72.3336, 21.8703



37.3997, 72.1759, 20.5543



47.4934, 76.2264, 73.1186



18.0213, 20.2680, 20.4150



19.6037, 37.7381, 11.0641



1.9570, 3.6937, 1.3315



# Inverse Universe

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



48.8810, 24.4729, 41.6847



48.4958, 24.1623, 40.1385



42.0062, 21.7229, 5.4823



18.5201, 18.1914, 21.3562



25.4123, 12.6542, 21.3533

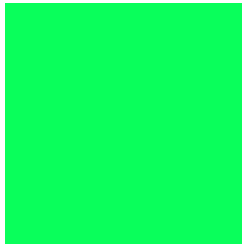


2.5251, 1.2524, 2.3464



# Previews

## White Background



This preview shows how the XYZ color 37.7610, 72.3334, 21.8691 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

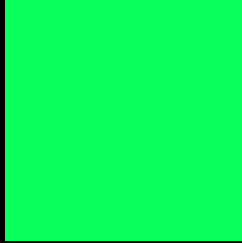
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.7610, 72.3334, 21.8691 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 37.7610, 72.3334, 21.8691**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7610, 72.3334, 21.8691.



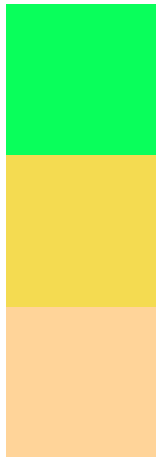
This preview shows how white text looks on a background with the XYZ color 37.7610, 72.3334,



# 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

37.7610, 72.3334, 21.8691

### Protanopia

64.1249, 70.4902, 18.0108

### Deuteranopia

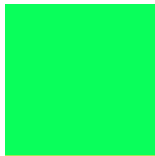
70.5333, 70.6469, 40.0557



## Tritanopia

55.8054, 71.6399, 105.4944

# Trichromacy



## Original Color

37.7610, 72.3334, 21.8691



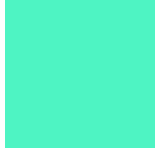
## Protanomaly

44.7944, 65.7400, 18.9225



## Deuteranomaly

47.4986, 65.2055, 31.2016



## Tritanomaly

45.3429, 70.2612, 62.8017

# Monochromacy



## Original Color

37.7610, 72.3334, 21.8691



## Achromatopsia

34.8123, 36.6253, 39.8849



## Achromatomaly

30.3187, 44.4118, 30.6413

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7610, 72.3334, 21.8691 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(9, 255, 91)` looks like.

```
.text, #text, p{  
    color:rgb(9, 255, 91)  
}
```

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(9, 255, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 255, 91) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7610, 72.3334, 21.8691 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(9, 255, 91) }
```



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

```
.border{ border-color:rgb(9, 255, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 255, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 255, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(9, 255, 91);  
box-shadow:4px 4px 4px 4px rgb(9, 255, 91)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 37.7610, 72.3334, 21.8691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 255, 91) }
```

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

```
.background{ background-color: rgb(9, 255,  
91) }
```

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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