

# Converting Colors

XYZ(38.3704, 72.6362, 22.4116)

Have a look what the booklet for  
XYZ(38.3704, 72.6362, 22.4116)  
contains.

<b>XYZ(38.3630, 72.6336, 22.3537)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(38.3630, 72.6336,  
22.3537)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21FF5D
RGB	33, 255, 93
RGB Percent	13%, 100%, 36%
CMY	0.8706, 0.0000, 0.6353
CMYK	0.87, 0.00, 0.64, 0.00
HSL	136°, 100%, 56%
HSV	136°, 87%, 100%
XYZ	38.3630, 72.6336, 22.3537
YIQ	170.1540, -80.3100, -97.4460

# Conversions

## Conversions Part 2

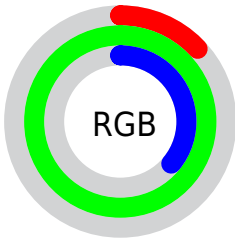
Format	Color
<b>RYB</b>	33, 208, 255
Decimal	2228061
CIELab	88.27, -79.94, 61.80
CIELCh	88, 101.040, 142.295
Yxy	72.6336, 0.2877, 0.5447
Android (android.graphics.Color)	4280418141 (0xFF21FF5D)
YUV	170.1540, -38.0369, -120.2841
Hunter-Lab	85.2253, -68.7951, 44.1066

# Details

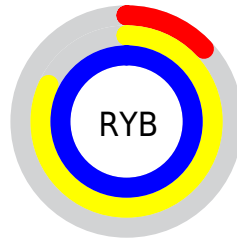
The XYZ color **38.3630, 72.6336, 22.3537** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark washed green. A complement of this color would be **51.6343, 26.2881, 53.9822**, and the grayscale version is **38.4986, 40.5035, 44.1084**.

A 20% lighter version of the original color is **49.4970, 77.9750, 40.8757**, and **20.0144, 39.5897, 8.0255** is the 20% darker color. If you saturate the color by 10%, you get **37.1034, 72.0682, 18.5040**, and if you desaturate by 10%, it is **40.4375, 73.5960, 27.2907**.

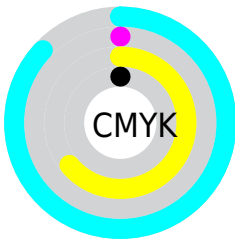
# Distribution



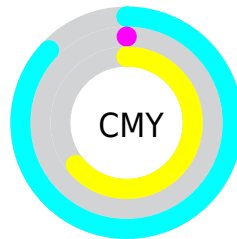
- Red (13%)
- Green (100%)
- Blue (36%)



- Red (13%)
- Yellow (82%)
- Blue (100%)



- Cyan (87%)
- Magenta (0%)
- Yellow (64%)
- Black (0%)




- Cyan (87%)
- Magenta (0%)
- Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.3630, 72.6336, 22.3537 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 38.3630, 72.6336, 22.3537 by changing the saturation by 10% instead.





 38.3630, 72.6336,  
22.3537


 38.3630, 72.6336,  
22.3537


330.4286,  
469.7439, 277.4014


 26.4430, 53.6764,  
13.9162


 71.9645, 122.9569,  
48.2396


 17.2898, 38.3430,  
7.9243


 94.3767, 155.0918,  
66.5250

 10.5379, 26.2490,  
3.9595


 121.0171,  
192.3881, 88.9302

 5.8220, 17.0100,  
1.6031

 152.2510,  
235.2302, 115.8737

 2.7768, 10.2416,  
0.2931

188.4437,  
284.0024, 147.7741

 1.0369, 5.5595,  
0.0000

229.9607,

 0.0000, 2.5791,

339.0892, 185.0497

0.0000

277.1672,  
400.8749, 228.1193

■ 0.0000, 0.9162,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.3630, 72.6336,  
22.3537

■ 38.3630, 72.6336,  
22.3537

■ 37.1034, 72.0682,  
18.5040


■ 40.4375, 73.5960,  
27.2907


■ 36.8317, 71.9487,  
17.5636


■ 43.4607, 75.0227,  
33.3871


■ 47.5401, 76.9678,  
40.7128

■ 52.7679, 79.4775,  
49.3308

 59.2260, 82.5928,  
59.2997

 66.9884, 86.3507,  
70.6747

 76.1232, 90.7853,  
83.5075

 86.6939, 95.9282,  
97.8476

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



52.8362, 72.6336, 8.7461



38.3630, 72.6336, 22.3537



32.4125, 72.6336, 62.5212

# Triad

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



38.3630, 72.6336, 22.3537



62.9799, 72.6336, 298.4805



121.6965, 72.6336, 38.5182

# Complementary

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



38.3630, 72.6336, 22.3537



51.6343, 26.2881, 53.9822

# 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.



126.2171, 72.6336, 98.3443



38.3630, 72.6336, 22.3537



88.2488, 72.6336, 277.7351

# Square

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



38.3630, 72.6336, 22.3537



44.2962, 72.6336, 238.4441



112.8126, 72.6336, 191.8809



101.6062, 72.6336, 13.5455



# Rectangle

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



38.3630, 72.6336, 22.3537



32.8052, 72.6336, 111.0140



112.8126, 72.6336, 191.8809



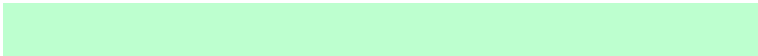
125.2514, 72.6336, 53.9537

# Sweetspot

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



38.3634, 72.6338, 22.3549



67.8879, 86.7869, 71.9613



58.7479, 83.3390, 14.4289



13.9120, 18.2760, 14.5132



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.



38.3634, 72.6338, 22.3549



36.8317, 71.9487, 17.5636



47.1908, 76.1648, 68.8397



17.9732, 20.2488, 20.1618



19.2983, 37.6159, 9.4559



1.9223, 3.6799, 1.1488



# Inverse Universe

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



51.6343, 26.2881, 53.9822



50.1113, 24.8085, 48.6458



43.4159, 23.0007, 10.7048



18.5708, 18.2116, 21.6231



26.2500, 12.9893, 25.7646

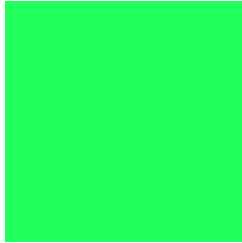


2.6016, 1.2830, 2.7493



# Previews

## White Background



This preview shows how the XYZ color 38.3630, 72.6336, 22.3537 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 38.3630, 72.6336, 22.3537 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

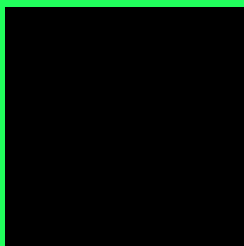
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.3630, 72.6336, 22.3537**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.3630, 72.6336, 22.3537.



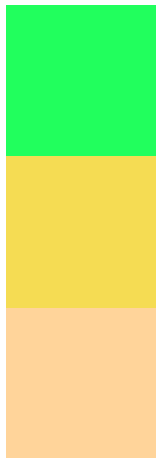
This preview shows how white text looks on a background with the XYZ color 38.3630, 72.6336,



# 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

38.3630, 72.6336, 22.3537

### Protanopia

64.8107, 71.2234, 18.5152

### Deuteranopia

70.6162, 70.6801, 40.4926



## Tritanopia

56.2193, 71.8533, 105.5137

# Trichromacy



## Original Color

38.3630, 72.6336, 22.3537



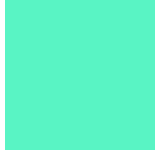
## Protanomaly

47.0077, 67.2908, 19.5277



## Deuteranomaly

49.3638, 66.1514, 31.9965



## Tritanomaly

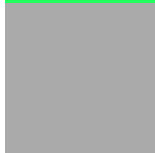
46.4343, 70.8107, 63.4450

# Monochromacy



## Original Color

38.3630, 72.6336, 22.3537



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

33.5149, 47.7194, 33.0355

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.3630, 72.6336, 22.3537 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(33, 255, 93)` looks like.

```
.text, #text, p{  
    color:rgb(33, 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(33, 255, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 255, 93) }
```

## Border

The CSS property to change the border of an element to XYZ 38.3630, 72.6336, 22.3537 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(33, 255, 93) }
```



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

```
.border{ border-color:rgb(33, 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(33, 255, 93)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 255, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 255, 93);  
box-shadow:4px 4px 4px 4px rgb(33, 255,  
93) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.3630, 72.6336, 22.3537 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 255, 93) }
```

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

```
.background{ background-color: rgb(33, 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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