

Converting Colors

XYZ(37.8235, 72.3738, 21.5042)

Have a look what the booklet for
XYZ(37.8235, 72.3738, 21.5042)
contains.

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Color

**XYZ(37.8126, 72.3699,
21.4270)**

Conversions

Conversions Part 1

Format	Color
Hex	12FF59
RGB	18, 255, 89
RGB Percent	7%, 100%, 35%
CMY	0.9294, 0.0000, 0.6510
CMYK	0.93, 0.00, 0.65, 0.00
HSL	138°, 100%, 54%
HSV	138°, 93%, 100%
XYZ	37.8126, 72.3699, 21.4270
YIQ	165.2130, -87.9660, -101.8700

Conversions

Conversions Part 2

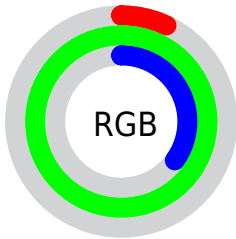
Format	Color
RYB	18, 200, 255
Decimal	1245017
CIELab	88.15, -81.17, 63.23
CIELCh	88, 102.892, 142.082
Yxy	72.3699, 0.2873, 0.5499
Android (android.graphics.Color)	4279435097 (0xFF12FF59)
YUV	165.2130, -37.5730, -129.1058
Hunter-Lab	85.0705, -69.5327, 44.6158

Details

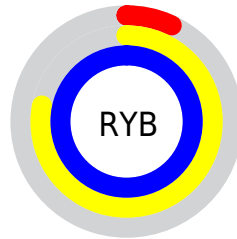
The XYZ color **37.8126, 72.3699, 21.4270** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark washed green. A complement of this color would be **50.1078, 25.1533, 47.5601**, and the grayscale version is **36.0720, 37.9505, 41.3281**.

A 20% lighter version of the original color is **48.6166, 77.5574, 39.1958**, and **19.9264, 39.5544, 7.5618** is the 20% darker color. If you saturate the color by 10%, you get **37.0783, 72.0473, 18.8622**, and if you desaturate by 10%, it is **39.4242, 73.1032, 25.9053**.

Distribution



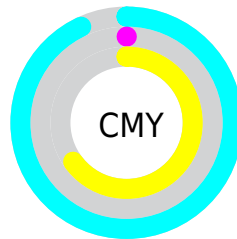
- Red (7%)
- Green (100%)
- Blue (35%)



- Red (7%)
- Yellow (78%)
- Blue (100%)



- Cyan (93%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)





- Cyan (93%)
- Magenta (0%)
- Yellow (65%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 37.8126, 72.3699, 21.4270 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 37.8126, 72.3699, 21.4270 by changing the saturation by 10% instead.


 37.8126, 72.3699,
21.4270


 37.8126, 72.3699,
21.4270


328.1102,
468.8281, 272.3943


 26.0138, 53.4609,
13.2422


 71.1266, 122.5823,
46.6871

 16.9667, 38.1708,
7.4629


 93.3725, 154.6545,
64.5995

 10.3059, 26.1153,
3.6704

 119.8315,
191.8831, 86.5914

 5.6661, 16.9099,
1.4463

 150.8689,
234.6527, 113.0816

 2.6818, 10.1703,
0.1775

186.8501,
283.3476, 144.4884

 0.9878, 5.5120,
0.0000

228.1405,

 0.0000, 2.5507,

338.3522, 181.2304

0.0000

275.1054,
400.0509, 223.7262

■ 0.0000, 0.9019,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 37.8126, 72.3699,
21.4270

■ 37.8126, 72.3699,
21.4270


■ 37.0783, 72.0473,
18.8622


■ 39.4242, 73.1032,
25.9053


■ 41.8986, 74.2590,
31.4355


■ 45.3544, 75.8970,
38.0817


■ 49.8904, 78.0670,
45.9019

 55.5926, 80.8122,
54.9496

 62.5380, 84.1714,
65.2752

 70.7971, 88.1797,
76.9260

 80.4346, 92.8698,
89.9471

 91.5112, 98.2720,
104.3813

Harmonies

Analogous

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



52.4927, 72.3699, 8.1297



37.8126, 72.3699, 21.4270



31.7686, 72.3699, 61.5720

Triad

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



37.8126, 72.3699, 21.4270



62.4732, 72.3699, 303.5187



122.5824, 72.3699, 38.0575

Complementary

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



37.8126, 72.3699, 21.4270



50.1078, 25.1533, 47.5601

Split Complementary

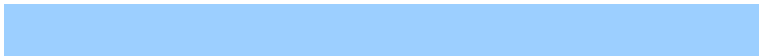
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



127.0729, 72.3699, 98.9712



37.8126, 72.3699, 21.4270



88.1423, 72.3699, 282.7687

Square

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



37.8126, 72.3699, 21.4270



43.6209, 72.3699, 241.2458



113.2520, 72.3699, 194.7974



102.1384, 72.3699, 12.9643

Rectangle

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



37.8126, 72.3699, 21.4270



32.1265, 72.3699, 110.6874



113.2520, 72.3699, 194.7974



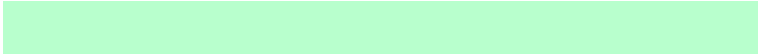
126.1766, 72.3699, 53.7106

Sweetspot

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



37.8129, 72.3700, 21.4282



66.4498, 86.0684, 70.8624



56.5715, 82.2361, 13.4639



13.4878, 18.0656, 14.1190



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.



37.8129, 72.3700, 21.4282



37.0783, 72.0473, 18.8622



46.8667, 75.9915, 69.1049



17.9955, 20.2577, 20.2793



19.4313, 37.6691, 10.1566



1.9377, 3.6860, 1.2299

Inverse Universe

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



50.1078, 25.1533, 47.5601



49.3367, 24.4987, 44.5666



42.5415, 22.1268, 7.7164



18.5472, 18.2022, 21.4988



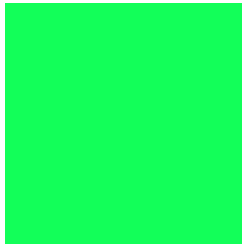
25.8486, 12.8287, 23.6509



2.5651, 1.2684, 2.5572

Previews

White Background



This preview shows how the XYZ color 37.8126, 72.3699, 21.4270 looks on a white background.

Color Contrast Check

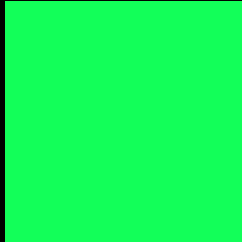
Large Text (above 18pt) WCAG AA × Fail

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 37.8126, 72.3699, 21.4270 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

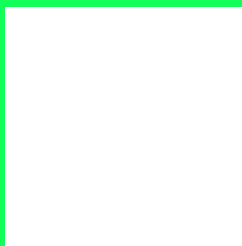
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 37.8126, 72.3699, 21.4270

Background



This preview shows how black text looks on a background with the XYZ color 37.8126, 72.3699, 21.4270.

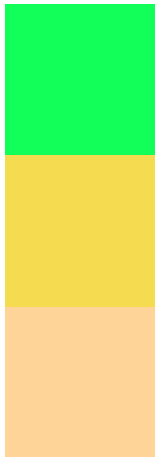


This preview shows how white text looks on a background with the XYZ color 37.8126, 72.3699,

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

37.8126, 72.3699, 21.4270

Protanopia

64.0510, 70.4606, 17.6215

Deuteranopia

70.4510, 70.6140, 39.6225



Tritanopia

55.9419, 71.7103, 105.5008

Trichromacy



Original Color

37.8126, 72.3699, 21.4270



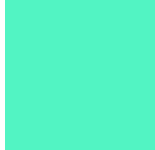
Protanomaly

45.3182, 66.0191, 18.5381



Deuteranomaly

48.0680, 65.5068, 30.8795



Tritanomaly

45.6807, 70.4353, 62.8175

Monochromacy



Original Color

37.8126, 72.3699, 21.4270



Achromatopsia

35.7637, 37.6262, 40.9749



Achromatomaly

31.3915, 45.6391, 30.8216

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.8126, 72.3699, 21.4270 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(18, 255, 89)` looks like.

```
.text, #text, p{  
    color:rgb(18, 255, 89)  
}
```

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(18, 255, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 255, 89) }
```

Border

The CSS property to change the border of an element to XYZ 37.8126, 72.3699, 21.4270 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(18, 255, 89) }
```


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

```
.border{ border-color:rgb(18, 255, 89) }
```

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

Here you see how a box with a 4 pixel rgb(18, 255, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 255, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 255, 89);  
box-shadow:4px 4px 4px 4px rgb(18, 255,  
89) }
```

Background

The CSS property to change the background color of an element to XYZ 37.8126, 72.3699, 21.4270 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 255, 89) }
```

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

```
.background{ background-color: rgb(18, 255,  
89) }
```

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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