

# Converting Colors

XYZ(38.6609, 72.8084, 21.4124)

Have a look what the booklet for  
XYZ(38.6609, 72.8084, 21.4124)  
contains.

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# Color

**XYZ(38.6899, 72.8221,  
21.4681)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EFF59
RGB	46, 255, 89
RGB Percent	18%, 100%, 35%
CMY	0.8196, 0.0000, 0.6510
CMYK	0.82, 0.00, 0.65, 0.00
HSL	132°, 100%, 59%
HSV	132°, 82%, 100%
XYZ	38.6899, 72.8221, 21.4681
YIQ	173.5850, -71.2780, -95.9340

# Conversions

## Conversions Part 2

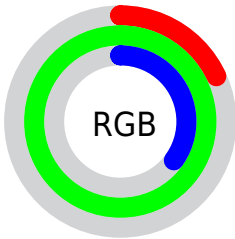
<b>Format</b>	<b>Color</b>
<b>RYB</b>	46, 219, 255
Decimal	3080025
CIELab	88.36, -79.28, 63.53
CIELCh	88, 101.595, 141.294
Yxy	72.8221, 0.2909, 0.5476
Android (android.graphics.Color)	4281270105 (0xFF2EFF59)
YUV	173.5850, -41.7004, -111.8920
Hunter-Lab	85.3359, -68.4088, 44.8194

# Details

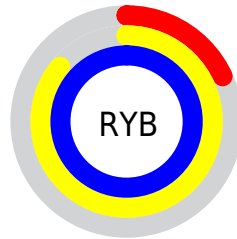
The XYZ color **38.6899, 72.8221, 21.4681** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **54.1004, 27.9675, 64.8324**, and the grayscale version is **40.2528, 42.3491, 46.1182**.

A 20% lighter version of the original color is **49.9241, 78.2315, 39.2570**, and **20.1527, 40.0071, 7.6373** is the 20% darker color. If you saturate the color by 10%, you get **37.1253, 72.1006, 17.5501**, and if you desaturate by 10%, it is **41.1698, 73.9884, 26.6524**.

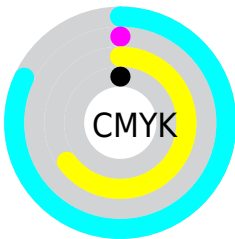
# Distribution



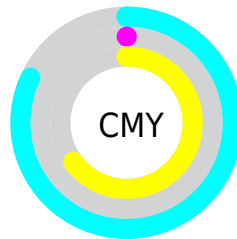
- Red (18%)
- Green (100%)
- Blue (35%)



- Red (18%)
- Yellow (86%)
- Blue (100%)



- Cyan (82%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)




- Cyan (82%)
- Magenta (0%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.6899, 72.8221, 21.4681 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 38.6899, 72.8221, 21.4681 by changing the saturation by 10% instead.





 38.6899, 72.8221,  
21.4681


 38.6899, 72.8221,  
21.4681


331.8002,  
470.3980, 272.6181


 26.6982, 53.8305,  
13.2720


 72.4615, 123.2246,  
46.7562


 17.4821, 38.4662,  
7.4832


 94.9720, 155.4043,  
64.6852

 10.6762, 26.3447,  
3.6831


 121.7196,  
192.7489, 86.6957

 5.9153, 17.0817,  
1.4532

 153.0696,  
235.6427, 113.2061

 2.8338, 10.2928,  
0.1827

189.3873,  
284.4701, 144.6350

 1.0665, 5.5935,  
0.0000

231.0380,

 0.0000, 2.5995,

339.6155, 181.4010

0.0000

278.3872,  
401.4634, 223.9225

■ 0.0000, 0.9264,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.6899, 72.8221,  
21.4681

■ 38.6899, 72.8221,  
21.4681

■ 37.1253, 72.1006,  
17.5501


■ 41.1698, 73.9884,  
26.6524

■ 36.3904, 71.7722,  
15.2398


■ 44.6866, 75.6601,  
33.1963


■ 49.3435, 77.8888,  
41.1883


■ 55.2306, 80.7191,  
50.7085

 62.4289, 84.1912,  
61.8309

 71.0122, 88.3418,  
74.6248

 81.0489, 93.2047,  
89.1553

 92.6027, 98.8114,  
105.4841

 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.



53.5433, 72.8221, 8.4403



38.6899, 72.8221, 21.4681



32.4379, 72.8221, 60.6494

# Triad

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



38.6899, 72.8221, 21.4681



62.3567, 72.8221, 299.9310



122.7495, 72.8221, 39.8339

# Complementary

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



38.6899, 72.8221, 21.4681



54.1004, 27.9675, 64.8324

# Split Complementary

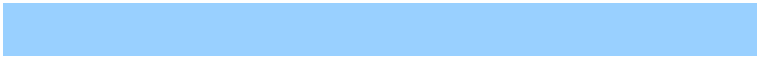
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



126.6901, 72.8221, 101.4072



38.6899, 72.8221, 21.4681



87.6808, 72.8221, 281.8054

# Square

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



38.6899, 72.8221, 21.4681



43.8364, 72.8221, 237.0622



112.6403, 72.8221, 196.4196



102.8772, 72.8221, 13.8793



# Rectangle

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



38.6899, 72.8221, 21.4681



32.6603, 72.8221, 108.6099



112.6403, 72.8221, 196.4196



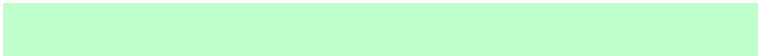
126.1406, 72.8221, 55.7890

# Sweetspot

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



38.6902, 72.8223, 21.4693



68.2520, 87.0061, 70.5544



63.7520, 85.8934, 15.8040



13.9612, 18.3098, 14.1370



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.



38.6902, 72.8223, 21.4693



36.5504, 71.8435, 15.7490



46.4346, 75.9200, 62.2507



17.9244, 20.2293, 19.9049



19.0574, 37.5196, 8.1877



1.8927, 3.6680, 0.9930



# Inverse Universe

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



54.1004, 27.9675, 64.8324



52.1443, 25.7103, 59.0780



44.9614, 24.3119, 16.7069



18.6231, 18.2326, 21.8984



27.2080, 13.3725, 30.8095

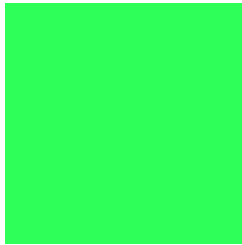


2.6876, 1.3174, 3.2023



# Previews

## White Background



This preview shows how the XYZ color 38.6899, 72.8221, 21.4681 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

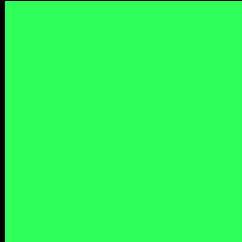
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.6899, 72.8221, 21.4681 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 38.6899, 72.8221, 21.4681**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.6899, 72.8221, 21.4681.



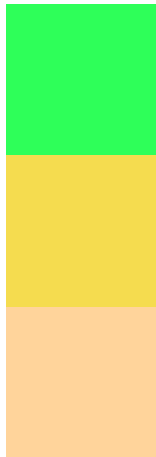
This preview shows how white text looks on a background with the XYZ color 38.6899, 72.8221,



# 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

38.6899, 72.8221, 21.4681

### Protanopia

64.6607, 71.1634, 17.7251

### Deuteranopia

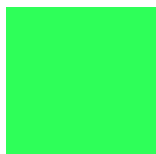
70.6999, 70.7135, 40.9331



## Tritanopia

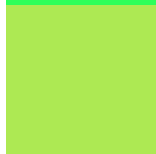
56.6464, 72.0735, 105.5337

# Trichromacy



## Original Color

38.6899, 72.8221, 21.4681



## Protanomaly

47.9338, 67.7866, 18.7414



## Deuteranomaly

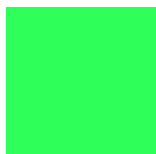
50.4305, 66.7092, 31.6909



## Tritanomaly

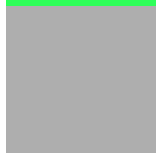
47.0249, 71.1283, 62.8804

# Monochromacy



## Original Color

38.6899, 72.8221, 21.4681



## Achromatopsia

40.2316, 42.3268, 46.0938



## Achromatomaly

35.0663, 49.2071, 33.6363

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.6899, 72.8221, 21.4681 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(46, 255, 89)` looks like.

```
.text, #text, p{  
    color:rgb(46, 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(46, 255, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 255, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 38.6899, 72.8221, 21.4681 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(46, 255, 89) }
```



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

```
.border{ border-color:rgb(46, 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(46, 255, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 255, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 255, 89);  
box-shadow:4px 4px 4px 4px rgb(46, 255,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.6899, 72.8221, 21.4681 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 255, 89) }
```

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

```
.background{ background-color: rgb(46, 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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