

# Converting Colors

XYZ(38.8886, 48.8973,  
101.9962)

Have a look what the booklet for  
XYZ(38.8886, 48.8973, 101.9962)  
contains.

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# Color

**XYZ(38.9366, 48.9933,  
102.0122)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C9FF
RGB	0, 201, 255
RGB Percent	0%, 79%, 100%
CMY	0.9997, 0.2118, 0.0000
CMYK	1.00, 0.21, 0.00, 0.00
HSL	193°, 100%, 50%
HSV	193°, 100%, 100%
XYZ	38.9366, 48.9933, 102.0122
YIQ	147.0570, -137.1300, -25.8180

# Conversions

## Conversions Part 2

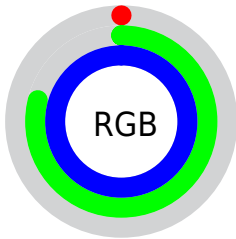
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 112, 255
Decimal	51711
CIELab	75.45, -22.82, -38.03
CIELCh	75, 44.357, 239.031
Yxy	48.9933, 0.2050, 0.2579
Android (android.graphics.Color)	4278241791 (0xFF00C9FF)
YUV	147.0570, 53.2159, -128.9690
Hunter-Lab	69.9952, -23.1965, -37.4136

# Details

The XYZ color **38.9366, 48.9933, 102.0122** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **42.5628, 23.9049, 2.3728**, and the grayscale version is **27.5936, 29.0307, 31.6144**.

A 20% lighter version of the original color is **60.7494, 82.3174, 107.2948**, and **20.6268, 24.9447, 57.1537** is the 20% darker color. If you saturate the color by 10%, you get **38.9337, 48.9874, 102.0112**, and if you desaturate by 10%, it is **40.6338, 51.7713, 102.4590**.

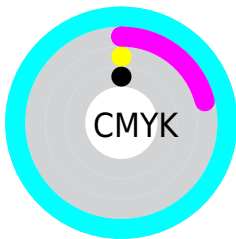
# Distribution



- Red (0%)
- Green (79%)
- Blue (100%)



- Red (0%)
- Yellow (44%)
- Blue (100%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.9366, 48.9933, 102.0122 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 38.9366, 48.9933, 102.0122 by changing the saturation by 10% instead.



■ 38.9366, 48.9933,  
102.0122

■ 38.9366, 48.9933,  
102.0122

■ 332.8327,  
382.7159, 587.9266

■ 26.8909, 34.6142,  
77.3558

■ 72.8361, 88.6815,  
165.9956

■ 17.6275, 23.3658,  
57.0317

■ 95.4207, 114.7594,  
206.1597

■ 10.7809, 14.8639,  
40.6211

■ 122.2490,  
145.5056, 252.3302

■ 5.9859, 8.7239,  
27.7057

■ 153.6862,  
181.3046, 304.9256

■ 2.8771, 4.5615,  
17.8668

■ 190.0979,  
222.5407, 364.3643

■ 1.0891, 1.9924,  
10.6860

231.8493,

■ 0.0160, 0.6030,

269.5984, 431.0651

5.7446

279.3057,  
322.8620, 505.4463

■ 0.0000, 0.0000,  
2.6241

■ 0.0000, 0.0000,  
0.9049

■ 38.9366, 48.9933,  
102.0122

■ 38.9366, 48.9933,  
102.0122

■ 38.9337, 48.9874,  
102.0112

■ 40.6338, 51.7713,  
102.4590

■ 42.9136, 54.9152,  
102.9456

■ 45.9421, 58.5121,  
103.4803

■ 49.8205, 62.6148,  
104.0678

■ 54.6335, 67.2677,  
104.7122

■ 60.4555, 72.5095,  
105.4171

■ 67.3527, 78.3753,  
106.1858

■ 75.3861, 84.8968,  
107.0212

■ 84.6114, 92.1036,  
107.9260

# Harmonies

## Analogous

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



34.1292, 48.9933, 78.3136



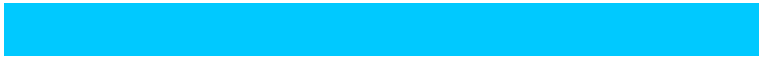
38.9366, 48.9933, 102.0122



46.3014, 48.9933, 112.2126

# Triad

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



38.9366, 48.9933, 102.0122



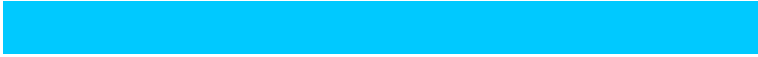
64.1202, 48.9933, 54.1101



39.3465, 48.9933, 22.8685

# Complementary

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



38.9366, 48.9933, 102.0122



42.5628, 23.9049, 2.3728

# 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.



46.8329, 48.9933, 19.8040



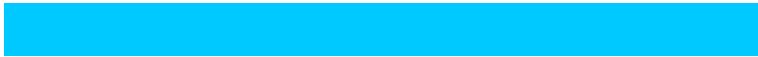
38.9366, 48.9933, 102.0122



61.7091, 48.9933, 34.3433

# Square

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



38.9366, 48.9933, 102.0122



61.3890, 48.9933, 80.0286



55.1336, 48.9933, 23.3040

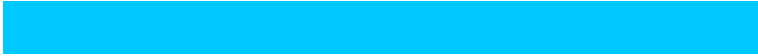


34.3457, 48.9933, 33.3698



# Rectangle

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



38.9366, 48.9933, 102.0122



51.8834, 48.9933, 108.2310



55.1336, 48.9933, 23.3040



41.6261, 48.9933, 21.0992

# Sweetspot

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



38.9381, 48.9949, 102.0125



67.3319, 78.3580, 106.1836



36.3597, 71.7600, 15.0733



13.7607, 16.2259, 22.6566



0.0000, 0.0000, 0.0000

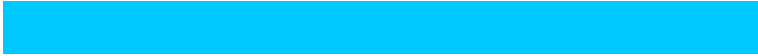


20.3446, 21.4041, 23.3091

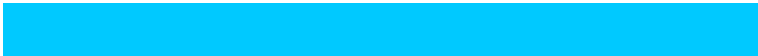


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



38.9381, 48.9949, 102.0125



38.9337, 48.9874, 102.0112



20.6734, 12.4654, 95.9242



18.2091, 19.7898, 23.1100



20.4564, 25.8224, 53.3406



2.0695, 2.6697, 5.2195



# Inverse Universe

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



51.7837, 25.4787, 57.4485



51.7811, 25.4765, 57.4388



57.2647, 53.3088, 7.2735



18.6182, 18.2306, 21.8725



27.1136, 13.3348, 30.3126

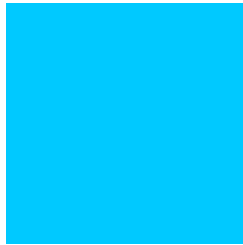


2.6792, 1.3141, 3.1580



# Previews

## White Background



This preview shows how the XYZ color 38.9366, 48.9933, 102.0122 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

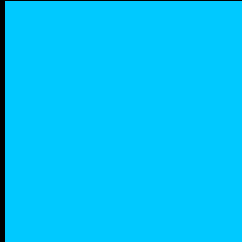
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.9366, 48.9933, 102.0122 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 38.9366, 48.9933, 102.0122

## Background



This preview shows how black text looks on a background with the XYZ color 38.9366, 48.9933, 102.0122.



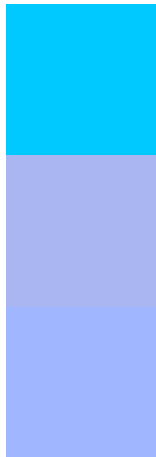
This preview shows how white text looks on a background with the XYZ color 38.9366, 48.9933,



# 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

38.9366, 48.9933, 102.0122

### Protanopia

48.9673, 48.2418, 89.9498

### Deuteranopia

49.4807, 48.5606, 101.3730



## Tritanopia

34.8825, 48.8831, 76.0035

# Trichromacy



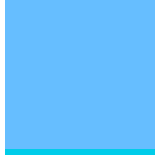
## Original Color

38.9366, 48.9933, 102.0122



## Protanomaly

41.0165, 46.2372, 93.9516



## Deuteranomaly

41.9429, 46.8717, 101.4443



## Tritanomaly

36.3008, 49.0689, 84.6488

# Monochromacy



## Original Color

38.9366, 48.9933, 102.0122



## Achromatopsia

27.7328, 29.1771, 31.7738



## Achromatomaly

27.2977, 33.5623, 51.4938

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.9366, 48.9933, 102.0122 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(0, 201, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 201, 255)  
}
```

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(0, 201, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 201, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 38.9366, 48.9933, 102.0122 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(0, 201, 255) }
```



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

```
.border{ border-color:rgb(0, 201, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 201, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 201, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 201, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 201,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.9366, 48.9933, 102.0122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 201, 255) }
```

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

```
.background{ background-color: rgb(0, 201,  
255) }
```

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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