

# Converting Colors

XYZ(51.2164, 50.8920,  
176.9030)

Have a look what the booklet for  
XYZ(51.2164, 50.8920, 176.9030)  
contains.

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# Color

**XYZ(37.1200, 45.3599,  
101.4067)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C1FF
RGB	0, 193, 255
RGB Percent	0%, 76%, 100%
CMY	0.9997, 0.2431, 0.0000
CMYK	1.00, 0.24, 0.00, 0.00
HSL	195°, 100%, 50%
HSV	195°, 100%, 100%
XYZ	37.1200, 45.3599, 101.4067
YIQ	142.3610, -134.9300, -21.6340

# Conversions

## Conversions Part 2

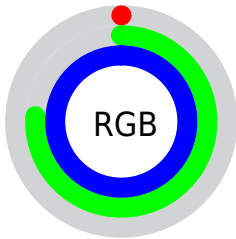
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 110, 255
Decimal	49663
CIELab	73.13, -18.70, -41.64
CIELCh	73, 45.649, 245.822
Yxy	45.3599, 0.2019, 0.2467
Android (android.graphics.Color)	4278239743 (0xFF00C1FF)
YUV	142.3610, 55.5310, -124.8506
Hunter-Lab	67.3498, -19.4813, -42.1265

# Details

The XYZ color **37.1200, 45.3599, 101.4067** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light saturated cyan. A complement of this color would be **42.9674, 24.7140, 2.5080**, and the grayscale version is **25.6892, 27.0271, 29.4325**.

A 20% lighter version of the original color is **58.8651, 78.5488, 106.6667**, and **19.4257, 22.5425, 56.7534** is the 20% darker color. If you saturate the color by 10%, you get **37.1161, 45.3521, 101.4054**, and if you desaturate by 10%, it is **38.9357, 48.3748, 101.8929**.

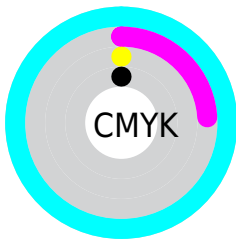
# Distribution



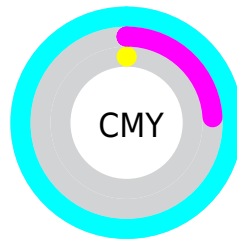
- Red (0%)
- Green (76%)
- Blue (100%)



- Red (0%)
- Yellow (43%)
- Blue (100%)



- Cyan (100%)
- Magenta (24%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (24%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.1200, 45.3599, 101.4067 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 37.1200, 45.3599, 101.4067 by changing the saturation by 10% instead.



■ 37.1200, 45.3599,  
101.4067

■ 37.1200, 45.3599,  
101.4067

■ 325.1763,  
368.2292, 585.9785

■ 25.4745, 31.7410,  
76.8524

■ 70.0699, 83.2602,  
165.1577

■ 16.5615, 21.1637,  
56.6209

■ 92.1051, 108.3104,  
205.1915

■ 10.0157, 13.2438,  
40.2936

■ 118.3342,  
137.9399, 251.2222

■ 5.4717, 7.5966,  
27.4520

■ 149.1226,  
172.5329, 303.6683

■ 2.5642, 3.8379,  
17.6776

■ 184.8357,  
212.4740, 362.9485

■ 0.9277, 1.5833,  
10.5517

225.8387,

■ 0.0000, 0.3463,

258.1475, 429.4812

5.6559

272.4971,  
309.9377, 503.6851

■ 0.0000, 0.0000,  
2.5716

■ 0.0000, 0.0000,  
0.8778

■ 37.1200, 45.3599,  
101.4067

■ 37.1200, 45.3599,  
101.4067

■ 37.1161, 45.3521,  
101.4054

■ 38.9357, 48.3748,  
101.8929

■ 41.3478, 51.7828,  
102.4236

■ 44.5223, 55.6713,  
103.0068

■ 48.5606, 60.0934,  
103.6475

■ 53.5477, 65.0939,  
104.3499

■ 59.5582, 70.7122,  
105.1175

■ 66.6586, 76.9836,  
105.9538

■ 74.9098, 83.9405,  
106.8617

■ 84.3682, 91.6126,  
107.8441

# Harmonies

## Analogous

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



31.8138, 45.3599, 79.8873



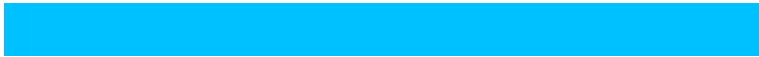
37.1200, 45.3599, 101.4067



44.6910, 45.3599, 107.3914

# Triad

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



37.1200, 45.3599, 101.4067



60.2810, 45.3599, 45.0579



34.7296, 45.3599, 21.6066

# Complementary

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



37.1200, 45.3599, 101.4067



42.9674, 24.7140, 2.5080

# 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.



41.5731, 45.3599, 17.2675



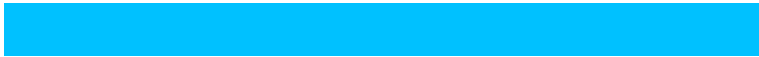
37.1200, 45.3599, 101.4067



56.8138, 45.3599, 27.8482

# Square

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



37.1200, 45.3599, 101.4067



58.7082, 45.3599, 69.6988



49.7191, 45.3599, 19.1346

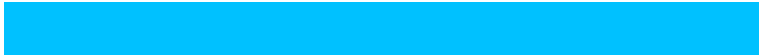


30.5578, 45.3599, 33.4664



# Rectangle

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



37.1200, 45.3599, 101.4067



50.1598, 45.3599, 100.5473



49.7191, 45.3599, 19.1346



36.7596, 45.3599, 19.4195

# Sweetspot

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



37.1214, 45.3614, 101.4069



66.6343, 76.9627, 105.9510



36.5651, 71.8422, 16.1543



13.5927, 15.8899, 22.6006



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

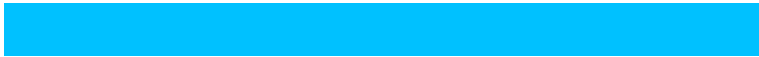


# Same Dimension

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



37.1214, 45.3614, 101.4069



37.1161, 45.3521, 101.4054



20.1217, 11.3619, 95.7403



18.1586, 19.6888, 23.0932



19.5167, 23.9431, 53.0274



1.9853, 2.5014, 5.1914



# Inverse Universe

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



50.8667, 25.1121, 52.6194



50.8637, 25.1095, 52.6076



59.0153, 56.8100, 7.8573



18.5927, 18.2204, 21.7383



26.6393, 13.1450, 27.8150



2.6367, 1.2971, 2.9343



# Previews

## White Background



This preview shows how the XYZ color 37.1200, 45.3599, 101.4067 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 37.1200, 45.3599, 101.4067 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 37.1200, 45.3599, 101.4067

## Background



This preview shows how black text looks on a background with the XYZ color 37.1200, 45.3599, 101.4067.



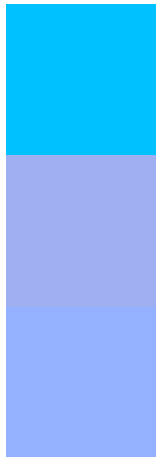
This preview shows how white text looks on a background with the XYZ color 37.1200, 45.3599,



# 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

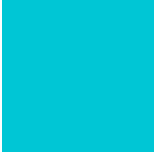
37.1200, 45.3599, 101.4067

### Protanopia

45.8504, 44.8324, 90.2413

### Deuteranopia

45.9849, 44.9602, 100.8623



## **Tritanopia**

32.2043, 45.1923, 69.9764

# Trichromacy



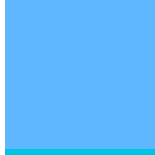
## Original Color

37.1200, 45.3599, 101.4067



## Protanomaly

38.8833, 42.9380, 94.2342



## Deuteranomaly

39.5996, 43.4667, 100.9105



## Tritanomaly

33.7435, 45.0813, 80.3219

# Monochromacy



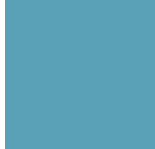
## Original Color

37.1200, 45.3599, 101.4067



## Achromatopsia

25.7108, 27.0498, 29.4572



## Achromatomaly

25.5086, 31.0823, 49.4548

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.1200, 45.3599, 101.4067 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, 193, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 193, 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, 193, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 193, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 37.1200, 45.3599, 101.4067 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, 193, 255) }
```



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

```
.border{ border-color:rgb(0, 193, 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, 193, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 193, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 193, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 193,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.1200, 45.3599, 101.4067 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 193, 255) }
```

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

```
.background{ background-color: rgb(0, 193,  
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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