

# Converting Colors

XYZ(27.6955, 40.7494,  
138.1212)

Have a look what the booklet for  
XYZ(27.6955, 40.7494, 138.1212)  
contains.

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# Color

**XYZ(37.7899, 46.6999,  
101.6300)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C4FF
RGB	0, 196, 255
RGB Percent	0%, 77%, 100%
CMY	0.9997, 0.2314, 0.0000
CMYK	1.00, 0.23, 0.00, 0.00
HSL	194°, 100%, 50%
HSV	194°, 100%, 100%
XYZ	37.7899, 46.6999, 101.6300
YIQ	144.1220, -135.7550, -23.2030

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 111, 255
Decimal	50431
CIELab	74.00, -20.26, -40.29
CIELCh	74, 45.095, 243.306
Yxy	46.6999, 0.2030, 0.2509
Android (android.graphics.Color)	4278240511 (0xFF00C4FF)
YUV	144.1220, 54.6629, -126.3950
Hunter-Lab	68.3373, -20.8815, -40.3389

# Details

The XYZ color **37.7899, 46.6999, 101.6300** 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 **42.8079, 24.3951, 2.4545**, and the grayscale version is **26.3934, 27.7679, 30.2392**.

A 20% lighter version of the original color is **60.1147, 81.0480, 107.0832**, and **19.8660, 23.4232, 56.9002** is the 20% darker color. If you saturate the color by 10%, you get **37.7868, 46.6936, 101.6289**, and if you desaturate by 10%, it is **39.5631, 49.6299, 102.1021**.

# Distribution



- Red (0%)
- Green (77%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (23%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (23%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7899, 46.6999, 101.6300 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 37.7899, 46.6999, 101.6300 by changing the saturation by 10% instead.



37.7899, 46.6999,  
101.6300

37.7899, 46.6999,  
101.6300

328.0143,  
373.6154, 586.6973

25.9961, 32.7985,  
77.0381

71.0920, 85.2655,  
165.4667

16.9534, 21.9721,  
56.7724

93.3310, 110.6985,  
205.5486

10.2964, 13.8364,  
40.4144

119.7825,  
140.7441, 251.6309

5.6597, 8.0070,  
27.5455

150.8118,  
175.7867, 304.1322

2.6779, 4.0994,  
17.7473

186.7843,  
216.2107, 363.4709

0.9858, 1.7293,  
10.6012

228.0653,

0.0000, 0.4425,

262.4006, 430.0656

5.6885

275.0202,  
314.7407, 504.3349

■ 0.0000, 0.0000,  
2.5909

■ 0.0000, 0.0000,  
0.8878

■ 37.7899, 46.6999,  
101.6300

■ 37.7899, 46.6999,  
101.6300

■ 37.7868, 46.6936,  
101.6289

■ 39.5631, 49.6299,  
102.1021

■ 41.9272, 52.9425,  
102.6169

■ 45.0484, 56.7247,  
103.1824

■ 49.0279, 61.0298,  
103.8036

■ 53.9508, 65.9022,  
104.4846

■ 59.8912, 71.3812,  
105.2291

■ 66.9160, 77.5019,  
106.0403

■ 75.0858, 84.2965,  
106.9211

■ 84.4567, 91.7945,  
107.8745

# Harmonies

## Analogous

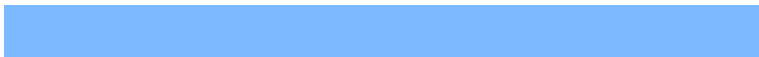
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



32.6660, 46.6999, 79.2835



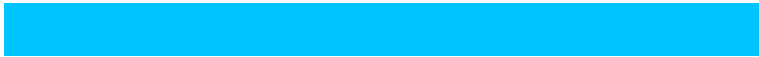
37.7899, 46.6999, 101.6300



45.2856, 46.6999, 109.1900

# Triad

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



37.7899, 46.6999, 101.6300



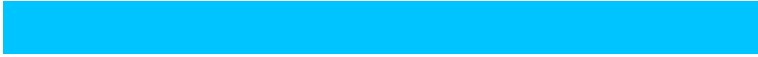
61.7036, 46.6999, 48.3340



36.4178, 46.6999, 22.0680

# Complementary

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



37.7899, 46.6999, 101.6300



42.8079, 24.3951, 2.4545

# 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.



43.5000, 46.6999, 18.1887



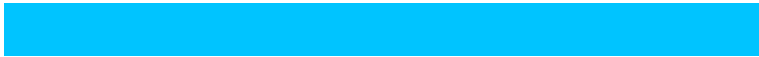
37.7899, 46.6999, 101.6300



58.6215, 46.6999, 30.1827

# Square

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



37.7899, 46.6999, 101.6300



59.7028, 46.6999, 73.4764



51.7101, 46.6999, 20.6345

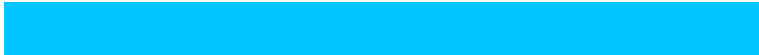


31.9436, 46.6999, 33.4200



# Rectangle

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



37.7899, 46.6999, 101.6300



50.7974, 46.6999, 103.3974



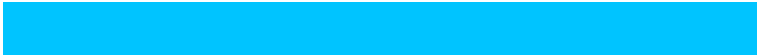
51.7101, 46.6999, 20.6345



38.5397, 46.6999, 20.0334

# Sweetspot

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



37.7914, 46.7014, 101.6302



66.8950, 77.4841, 106.0379



36.4578, 71.7992, 15.5900



13.6555, 16.0154, 22.6215



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

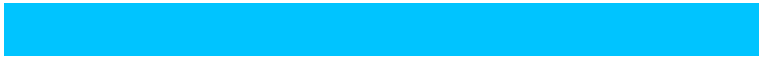


# Same Dimension

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



37.7914, 46.7014, 101.6302



37.7868, 46.6936, 101.6289



20.3877, 11.8942, 95.8290



18.1775, 19.7267, 23.0995



19.8636, 24.6368, 53.1430



2.0165, 2.5637, 5.2018



# Inverse Universe

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



51.2049, 25.2472, 54.4004



51.2022, 25.2449, 54.3903



58.1265, 55.0323, 7.5607



18.6023, 18.2242, 21.7886



26.8144, 13.2151, 28.7370

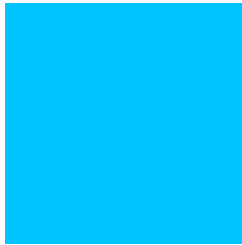


2.6524, 1.3033, 3.0171



# Previews

## White Background



This preview shows how the XYZ color 37.7899, 46.6999, 101.6300 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

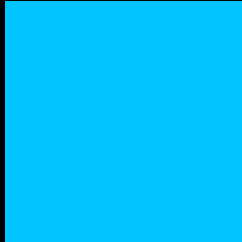
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.7899, 46.6999, 101.6300 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

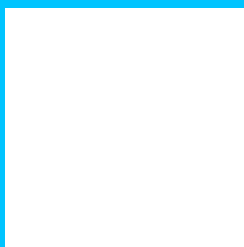
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 37.7899, 46.6999, 101.6300

## Background



This preview shows how black text looks on a background with the XYZ color 37.7899, 46.6999, 101.6300.



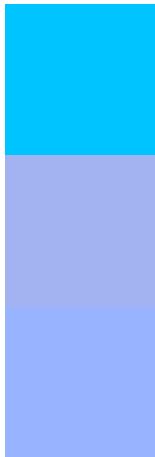
This preview shows how white text looks on a background with the XYZ color 37.7899, 46.6999,



# 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

37.7899, 46.6999, 101.6300

### Protanopia

46.9018, 45.9782, 89.6218

### Deuteranopia

47.1190, 46.1356, 101.0294



## Tritanopia

33.2813, 46.7312, 72.2317

# Trichromacy



## Original Color

37.7899, 46.6999, 101.6300

## Protanomaly

39.6924, 44.2948, 93.6465

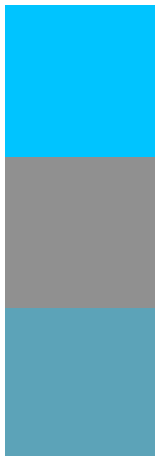
## Deuteranomaly

40.3287, 44.4593, 101.0637

## Tritanomaly

34.7064, 46.5600, 82.0207

# Monochromacy



## Original Color

37.7899, 46.6999, 101.6300

## Achromatopsia

26.5089, 27.8894, 30.3716

## Achromatomaly

26.1626, 31.9304, 50.1317

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7899, 46.6999, 101.6300 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, 196, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 196, 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, 196, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 196, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7899, 46.6999, 101.6300 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, 196, 255) }
```



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

```
.border{ border-color:rgb(0, 196, 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, 196, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 196, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 196, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 196,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7899, 46.6999, 101.6300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 196, 255) }
```

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

```
.background{ background-color: rgb(0, 196,  
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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