

# Converting Colors

XYZ(72.5406, 62.7275,  
298.7459)

Have a look what the booklet for  
XYZ(72.5406, 62.7275, 298.7459)  
contains.

<b>XYZ(39.4059, 49.9319, 102.1686)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(39.4059, 49.9319,  
102.1686)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CBFF
RGB	0, 203, 255
RGB Percent	0%, 80%, 100%
CMY	0.9997, 0.2039, 0.0000
CMYK	1.00, 0.20, 0.00, 0.00
HSL	192°, 100%, 50%
HSV	192°, 100%, 100%
XYZ	39.4059, 49.9319, 102.1686
YIQ	148.2310, -137.6800, -26.8640

# Conversions

## Conversions Part 2

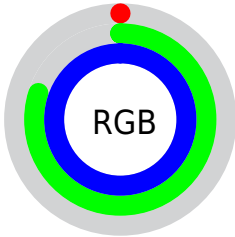
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 113, 255
Decimal	52223
CIELab	76.03, -23.84, -37.13
CIELCh	76, 44.127, 237.299
Yxy	49.9319, 0.2058, 0.2607
Android (android.graphics.Color)	4278242303 (0xFF00CBFF)
YUV	148.2310, 52.6371, -129.9986
Hunter-Lab	70.6625, -24.1165, -36.2617

# Details

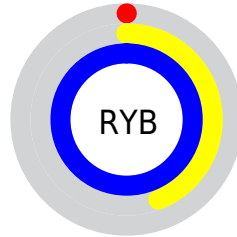
The XYZ color **39.4059, 49.9319, 102.1686** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **42.4715, 23.7223, 2.3424**, and the grayscale version is **28.0825, 29.5450, 32.1745**.

A 20% lighter version of the original color is **60.8802, 82.3848, 107.3009**, and **20.9405, 25.5721, 57.2583** is the 20% darker color. If you saturate the color by 10%, you get **39.4031, 49.9262, 102.1677**, and if you desaturate by 10%, it is **41.0707, 52.6452, 102.6046**.

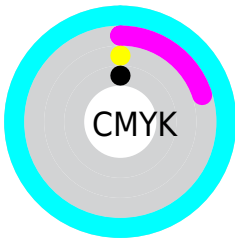
# Distribution



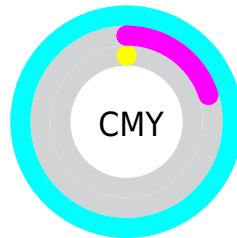
- Red (0%)
- Green (80%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.4059, 49.9319, 102.1686 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 39.4059, 49.9319, 102.1686 by changing the saturation by 10% instead.



39.4059, 49.9319,  
102.1686

39.4059, 49.9319,  
102.1686

334.7907,  
386.3996, 588.4292

27.2578, 35.3593,  
77.4859

73.5481, 90.0740,  
166.2120

17.9045, 23.9398,  
57.1378

96.2729, 116.4122,  
206.4097

10.9807, 15.2889,  
40.7058

123.2539,  
147.4411, 252.6162

6.1211, 9.0224,  
27.7713

154.8566,  
183.5451, 305.2500

2.9602, 4.7558,  
17.9158

191.4463,  
225.1086, 364.7297

1.1327, 2.1047,  
10.7207

233.3883,

0.0523, 0.6673,

272.5158, 431.4738

5.7676

281.0479,  
326.1514, 505.9008

■ 0.0000, 0.0000,  
2.6378

■ 0.0000, 0.0000,  
0.9119

■ 39.4059, 49.9319,  
102.1686

■ 39.4059, 49.9319,  
102.1686

■ 39.4031, 49.9262,  
102.1677

■ 41.0707, 52.6452,  
102.6046

■ 43.3151, 55.7182,  
103.0795

■ 46.3050, 59.2378,  
103.6013

■ 50.1415, 63.2568,  
104.1748

■ 54.9095, 67.8194,  
104.8042

■ 60.6830, 72.9645,  
105.4930

■ 67.5286, 78.7267,  
106.2444

■ 75.5067, 85.1379,  
107.0614

■ 84.6735, 92.2276,  
107.9467

# Harmonies

## Analogous

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



34.7297, 49.9319, 77.9379



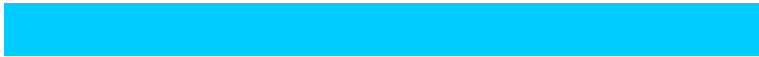
39.4059, 49.9319, 102.1686



46.7164, 49.9319, 113.4305

# Triad

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



39.4059, 49.9319, 102.1686



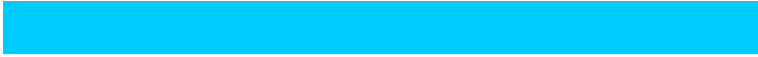
65.1030, 49.9319, 56.5329



40.5589, 49.9319, 23.1999

# Complementary

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



39.4059, 49.9319, 102.1686



42.4715, 23.7223, 2.3424

# 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.



48.2090, 49.9319, 20.4788



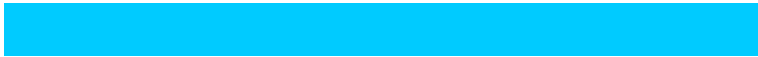
39.4059, 49.9319, 102.1686



62.9705, 49.9319, 36.1041

# Square

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



39.4059, 49.9319, 102.1686



62.0736, 49.9319, 82.7400



56.5402, 49.9319, 24.4326

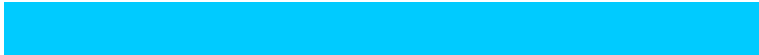


35.3393, 49.9319, 33.3589



# Rectangle

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



39.4059, 49.9319, 102.1686



52.3261, 49.9319, 110.1937



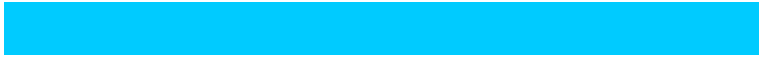
56.5402, 49.9319, 24.4326



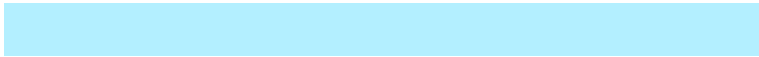
42.9031, 49.9319, 21.5406

# Sweetspot

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



39.4074, 49.9336, 102.1689



67.5077, 78.7096, 106.2422



36.3597, 71.7600, 15.0733



13.8031, 16.3107, 22.6707



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

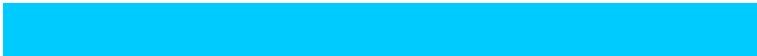


# Same Dimension

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



39.4074, 49.9336, 102.1689



39.4031, 49.9262, 102.1677



20.6734, 12.4655, 95.9242



18.2217, 19.8151, 23.1143



20.6989, 26.3074, 53.4215



2.0911, 2.7129, 5.2267



# Inverse Universe

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



52.0206, 25.5735, 58.6959



52.0181, 25.5712, 58.6865



57.2648, 53.3089, 7.2735



18.6246, 18.2331, 21.9061



27.2360, 13.3837, 30.9572



2.6901, 1.3184, 3.2155



# Previews

## White Background



This preview shows how the XYZ color 39.4059, 49.9319, 102.1686 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

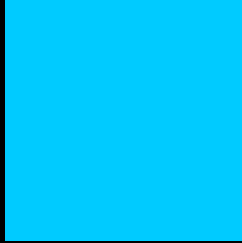
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.4059, 49.9319, 102.1686 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 39.4059, 49.9319, 102.1686**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.4059, 49.9319, 102.1686.



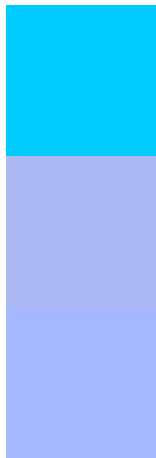
This preview shows how white text looks on a background with the XYZ color 39.4059, 49.9319,



# 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

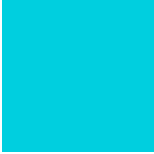
39.4059, 49.9319, 102.1686

### Protanopia

49.8123, 49.2898, 90.1076

### Deuteranopia

50.2947, 49.2875, 101.4704



## **Tritanopia**

35.6321, 49.9534, 77.5760

# Trichromacy



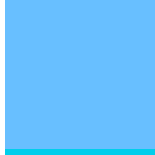
## Original Color

39.4059, 49.9319, 102.1686



## Protanomaly

41.5720, 47.1666, 94.1018



## Deuteranomaly

42.3897, 47.4247, 101.5274



## Tritanomaly

37.0667, 50.1408, 86.3218

# Monochromacy



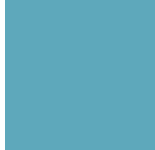
## Original Color

39.4059, 49.9319, 102.1686



## Achromatopsia

28.1479, 29.6138, 32.2495



## Achromatomaly

27.5884, 33.9728, 52.1171

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.4059, 49.9319, 102.1686 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, 203, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 203, 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, 203, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 203, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 39.4059, 49.9319, 102.1686 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, 203, 255) }
```



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

```
.border{ border-color:rgb(0, 203, 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, 203, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 203, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 203, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 203,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.4059, 49.9319, 102.1686 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 203, 255) }
```

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

```
.background{ background-color: rgb(0, 203,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor