

# Converting Colors

XYZ(66.8643, 66.8460,  
272.4666)

Have a look what the booklet for  
XYZ(66.8643, 66.8460, 272.4666)  
contains.

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# Color

**XYZ(43.6432, 58.4064,  
103.5811)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00DCFF
RGB	0, 220, 255
RGB Percent	0%, 86%, 100%
CMY	0.9997, 0.1372, 0.0000
CMYK	1.00, 0.14, 0.00, 0.00
HSL	188°, 100%, 50%
HSV	188°, 100%, 100%
XYZ	43.6432, 58.4064, 103.5811
YIQ	158.2100, -142.3550, -35.7550

# Conversions

## Conversions Part 2

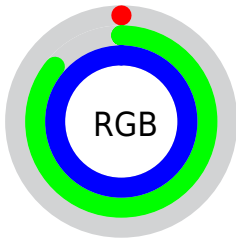
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 118, 255
Decimal	56575
CIELab	80.96, -32.21, -29.52
CIELCh	81, 43.690, 222.507
Yxy	58.4064, 0.2122, 0.2840
Android (android.graphics.Color)	4278246655 (0xFF00DCFF)
YUV	158.2100, 47.7175, -138.7502
Hunter-Lab	76.4241, -31.8068, -26.8616

# Details

The XYZ color **43.6432, 58.4064, 103.5811** 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 **41.8436, 22.4665, 2.1332**, and the grayscale version is **32.4421, 34.1316, 37.1693**.

A 20% lighter version of the original color is **61.0125, 82.4530, 107.3071**, and **23.6482, 30.9875, 58.1609** is the 20% darker color. If you saturate the color by 10%, you get **43.6412, 58.4024, 103.5804**, and if you desaturate by 10%, it is **44.9877, 60.4789, 103.9102**.

# Distribution



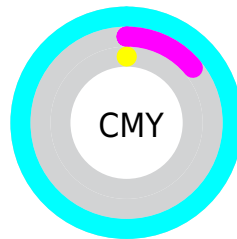
- Red (0%)
- Green (86%)
- Blue (100%)



- Red (0%)
- Yellow (46%)
- Blue (100%)



- Cyan (100%)
- Magenta (14%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (14%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 43.6432, 58.4064, 103.5811 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 43.6432, 58.4064, 103.5811 by changing the saturation by 10% instead.



43.6432, 58.4064,  
103.5811

43.6432, 58.4064,  
103.5811

352.1271,  
418.6986, 592.9585

30.5868, 42.1355,  
78.6611

79.9303, 102.5144,  
168.1644

20.4347, 29.2074,  
58.0976

103.8916,  
131.1203, 208.6649

12.8215, 19.2378,  
41.4719

132.2187,  
164.6066, 255.1959

7.3819, 11.8422,  
28.3655

165.2769,  
203.3578, 308.1760

3.7505, 6.6363,  
18.3599

203.4314,  
247.7582, 368.0238

1.5620, 3.2357,  
11.0366

247.0477,

0.3674, 1.2560,

298.1921, 435.1578

5.9770

296.4912,  
355.0442, 509.9965

■ 0.0000, 0.1067,  
2.7625

■ 0.0000, 0.0000,  
0.9747

■ 43.6432, 58.4064,  
103.5811

■ 43.6432, 58.4064,  
103.5811

■ 43.6412, 58.4024,  
103.5804

■ 44.9877, 60.4789,  
103.9102

■ 46.8893, 62.8663,  
104.2708

■ 49.5140, 65.6554,  
104.6708

■ 52.9626, 68.8982,  
105.1150

■ 57.3195, 72.6385,  
105.6073

■ 62.6587, 76.9146,  
106.1513

■ 69.0463, 81.7608,  
106.7500

■ 76.5427, 87.2083,  
107.4064

■ 85.2037, 93.2861,  
108.1230

# Harmonies

## Analogous

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



40.1931, 58.4064, 75.0140



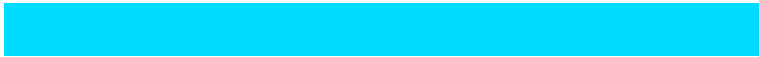
43.6432, 58.4064, 103.5811



50.4431, 58.4064, 123.9839

# Triad

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



43.6432, 58.4064, 103.5811



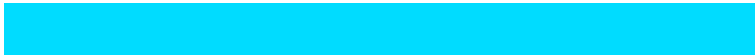
73.8278, 58.4064, 79.7900



51.8283, 58.4064, 26.2820

# Complementary

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



43.6432, 58.4064, 103.5811



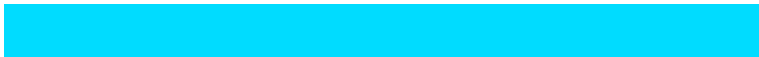
41.8436, 22.4665, 2.1332

# 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.



60.9128, 58.4064, 26.9099



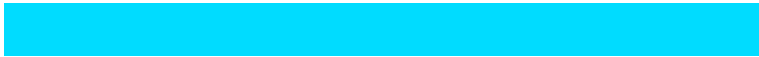
43.6432, 58.4064, 103.5811



74.3029, 58.4064, 53.3973

# Square

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



43.6432, 58.4064, 103.5811



68.1267, 58.4064, 107.8859



69.3619, 58.4064, 35.5051

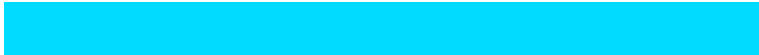


44.5620, 58.4064, 33.4656

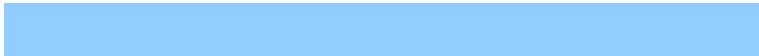


# Rectangle

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



43.6432, 58.4064, 103.5811



56.2784, 58.4064, 127.5415



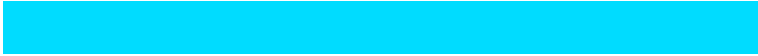
69.3619, 58.4064, 35.5051



54.7556, 58.4064, 25.6571

# Sweetspot

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



43.6449, 58.4084, 103.5814



69.0257, 81.7456, 106.7482



36.0506, 71.6364, 13.4455



14.1700, 17.0444, 22.7930



0.0000, 0.0000, 0.0000

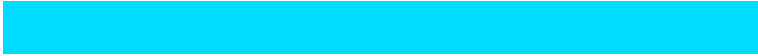


20.3446, 21.4041, 23.3091

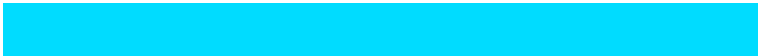


# Same Dimension

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



43.6449, 58.4084, 103.5814



43.6412, 58.4024, 103.5804



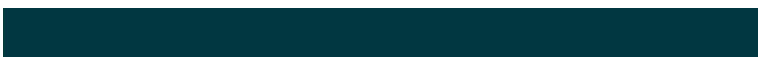
22.0136, 15.1457, 96.3709



18.3297, 20.0310, 23.1502



22.8856, 30.6808, 54.1504



2.2844, 3.0995, 5.2911



# Inverse Universe

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



54.1595, 26.4291, 69.9589



54.1573, 26.4269, 69.9514



54.0777, 46.9348, 6.2113



18.6791, 18.2549, 22.1931



28.3398, 13.8252, 36.7695

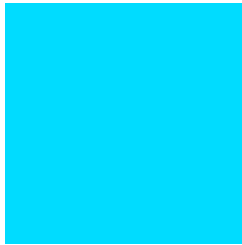


2.7877, 1.3574, 3.7293



# Previews

## White Background



This preview shows how the XYZ color 43.6432, 58.4064, 103.5811 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

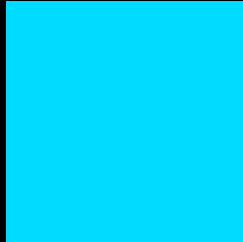
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 43.6432, 58.4064, 103.5811 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 43.6432, 58.4064, 103.5811

## Background



This preview shows how black text looks on a background with the XYZ color 43.6432, 58.4064, 103.5811.



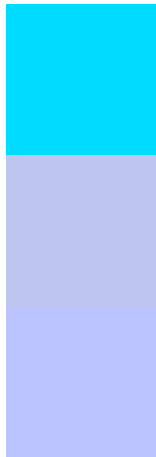
This preview shows how white text looks on a background with the XYZ color 43.6432, 58.4064,



# 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

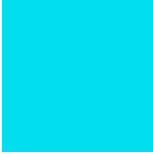
43.6432, 58.4064, 103.5811

### Protanopia

57.0093, 57.5673, 89.7682

### Deuteranopia

58.2834, 57.2647, 102.5891



## **Tritanopia**

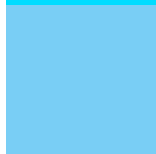
41.7013, 58.4745, 90.7502

# Trichromacy



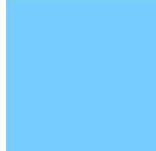
## Original Color

43.6432, 58.4064, 103.5811



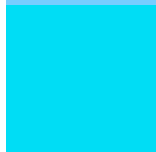
## Protanomaly

46.4379, 54.8001, 94.5161



## Deuteranomaly

47.4891, 54.8046, 102.6831



## Tritanomaly

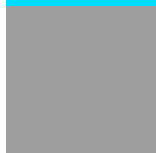
42.3379, 58.3055, 95.4088

# Monochromacy



## Original Color

43.6432, 58.4064, 103.5811



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

31.5163, 39.6647, 56.4470

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 43.6432, 58.4064, 103.5811 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, 220, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 220, 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, 220, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 220, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 43.6432, 58.4064, 103.5811 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, 220, 255) }
```



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

```
.border{ border-color:rgb(0, 220, 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, 220, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 220, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 220, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 220,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 43.6432, 58.4064, 103.5811 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 220, 255) }
```

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

```
.background{ background-color: rgb(0, 220,  
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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