

# Converting Colors

XYZ(40.0089, 53.9697,  
128.9766)

Have a look what the booklet for  
XYZ(40.0089, 53.9697, 128.9766)  
contains.

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# Color

**XYZ(42.3504, 55.8209,  
103.1501)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D7FF
RGB	0, 215, 255
RGB Percent	0%, 84%, 100%
CMY	0.9997, 0.1569, 0.0000
CMYK	1.00, 0.16, 0.00, 0.00
HSL	189°, 100%, 50%
HSV	189°, 100%, 100%
XYZ	42.3504, 55.8209, 103.1501
YIQ	155.2750, -140.9800, -33.1400

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 117, 255
Decimal	55295
CIELab	79.51, -29.79, -31.75
CIELCh	80, 43.541, 226.821
Yxy	55.8209, 0.2104, 0.2773
Android (android.graphics.Color)	4278245375 (0xFF00D7FF)
YUV	155.2750, 49.1644, -136.1762
Hunter-Lab	74.7134, -29.5678, -29.5570

# Details

The XYZ color **42.3504, 55.8209, 103.1501** 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 **42.0015, 22.7824, 2.1858**, and the grayscale version is **31.1214, 32.7421, 35.6561**.

A 20% lighter version of the original color is **61.0125, 82.4530, 107.3071**, and **22.7638, 29.2188, 57.8661** is the 20% darker color. If you saturate the color by 10%, you get **42.3483, 55.8166, 103.1494**, and if you desaturate by 10%, it is **43.7976, 58.0990, 103.5136**.

# Distribution



- Red (0%)
- Green (84%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (16%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (16%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.3504, 55.8209, 103.1501 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 42.3504, 55.8209, 103.1501 by changing the saturation by 10% instead.



42.3504, 55.8209,  
103.1501

42.3504, 55.8209,  
103.1501

346.9004,  
409.0162, 591.5784

29.5681, 40.0593,  
78.3024

77.9915, 98.7427,  
167.5690

19.6574, 27.5848,  
57.8045

101.5810,  
126.6717, 207.9772

12.2531, 18.0129,  
41.2379

129.5036,  
159.4253, 254.4094

6.9897, 10.9593,  
28.1839

162.1246,  
197.3879, 307.2841

3.5019, 6.0395,  
18.2241

199.8095,  
240.9439, 367.0198

1.4244, 2.8691,  
10.9399

242.9235,

0.2735, 1.0638,

290.4777, 434.0350

5.9128

291.8320,  
346.3736, 508.7484

■ 0.0000, 0.0000,  
2.7242

■ 0.0000, 0.0000,  
0.9556

■ 42.3504, 55.8209,  
103.1501

■ 42.3504, 55.8209,  
103.1501

■ 42.3483, 55.8166,  
103.1494

■ 43.7976, 58.0990,  
103.5136

■ 45.8077, 60.7034,  
103.9104

■ 48.5467, 63.7211,  
104.3485

■ 52.1153, 67.2043,  
104.8327

■ 56.5982, 71.1968,  
105.3671

■ 62.0692, 75.7369,  
105.9550

■ 68.5948, 80.8592,  
106.5998

■ 76.2352, 86.5949,  
107.3042

■ 85.0463, 92.9731,  
108.0709

# Harmonies

## Analogous

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



38.5186, 55.8209, 75.8254



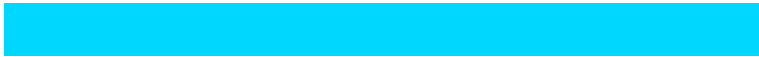
42.3504, 55.8209, 103.1501



49.3098, 55.8209, 120.8428

# Triad

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



42.3504, 55.8209, 103.1501



71.1925, 55.8209, 72.4476



48.3323, 55.8209, 25.3254

# Complementary

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



42.3504, 55.8209, 103.1501



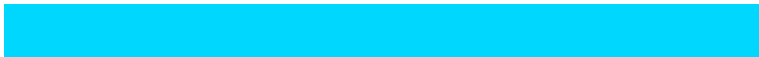
42.0015, 22.7824, 2.1858

# 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.



56.9875, 55.8209, 24.8856



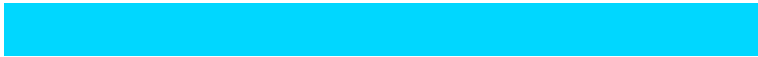
42.3504, 55.8209, 103.1501



70.8562, 55.8209, 47.8684

# Square

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



42.3504, 55.8209, 103.1501



66.3028, 55.8209, 100.0986



65.4291, 55.8209, 31.9658



41.7029, 55.8209, 33.3981



# Rectangle

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



42.3504, 55.8209, 103.1501



55.0806, 55.8209, 122.3170



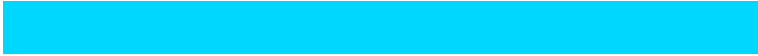
65.4291, 55.8209, 31.9658



51.0818, 55.8209, 24.3771

# Sweetspot

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



42.3521, 55.8228, 103.1504



68.5749, 80.8439, 106.5979



36.1158, 71.6624, 13.7889



14.0609, 16.8262, 22.7566



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

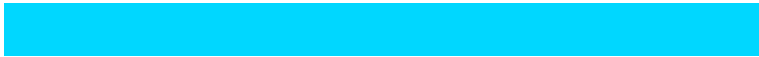


# Same Dimension

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



42.3521, 55.8228, 103.1504



42.3483, 55.8166, 103.1494



21.6480, 14.4147, 96.2491



18.2979, 19.9673, 23.1396



22.2190, 29.3476, 53.9282



2.2258, 2.9823, 5.2716



# Inverse Universe

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



53.5069, 26.1680, 66.5227



53.5047, 26.1659, 66.5148



54.8358, 48.4509, 6.4639



18.6630, 18.2485, 22.1085



28.0033, 13.6906, 34.9976



2.7581, 1.3456, 3.5734



# Previews

## White Background



This preview shows how the XYZ color 42.3504, 55.8209, 103.1501 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

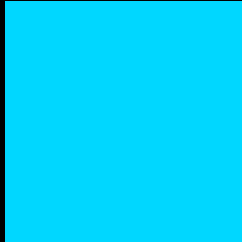
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.3504, 55.8209, 103.1501 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 42.3504, 55.8209, 103.1501

## Background



This preview shows how black text looks on a background with the XYZ color 42.3504, 55.8209, 103.1501.



This preview shows how white text looks on a background with the XYZ color 42.3504, 55.8209,



# 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

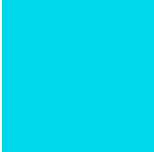
42.3504, 55.8209, 103.1501

### Protanopia

55.0275, 55.1891, 90.1904

### Deuteranopia

55.9424, 55.0632, 102.2875



## **Tritanopia**

39.8083, 55.6239, 87.2356

# Trichromacy



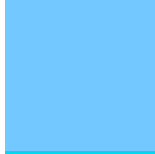
## Original Color

42.3504, 55.8209, 103.1501



## Protanomaly

45.0732, 52.6852, 94.1799



## Deuteranomaly

46.0069, 52.6381, 102.3431



## Tritanomaly

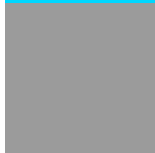
40.5829, 55.5225, 92.5824

# Monochromacy



## Original Color

42.3504, 55.8209, 103.1501



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

30.2717, 37.8585, 55.0022

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.3504, 55.8209, 103.1501 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, 215, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 215, 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, 215, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 215, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.3504, 55.8209, 103.1501 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, 215, 255) }
```



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

```
.border{ border-color:rgb(0, 215, 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, 215, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 215, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 215, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 215,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.3504, 55.8209, 103.1501 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 215, 255) }
```

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

```
.background{ background-color: rgb(0, 215,  
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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