

# Converting Colors

XYZ(38.3178, 50.6669,  
138.5007)

Have a look what the booklet for  
XYZ(38.3178, 50.6669, 138.5007)  
contains.

<b>XYZ(40.8505, 52.8209, 102.6502)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(40.8505, 52.8209,  
102.6502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D1FF
RGB	0, 209, 255
RGB Percent	0%, 82%, 100%
CMY	0.9997, 0.1804, 0.0000
CMYK	1.00, 0.18, 0.00, 0.00
HSL	191°, 100%, 50%
HSV	191°, 100%, 100%
XYZ	40.8505, 52.8209, 102.6502
YIQ	151.7530, -139.3300, -30.0020

# Conversions

## Conversions Part 2

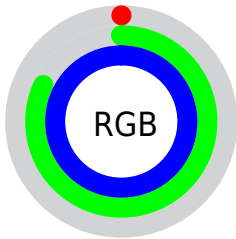
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 115, 255
Decimal	53759
CIELab	77.77, -26.85, -34.44
CIELCh	78, 43.665, 232.062
Yxy	52.8209, 0.2081, 0.2691
Android (android.graphics.Color)	4278243839 (0xFF00D1FF)
YUV	151.7530, 50.9008, -133.0874
Hunter-Lab	72.6780, -26.8560, -32.8664

# Details

The XYZ color **40.8505, 52.8209, 102.6502** 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 **42.2205, 23.2203, 2.2590**, and the grayscale version is **29.5803, 31.1208, 33.8905**.

A 20% lighter version of the original color is **60.8802, 82.3848, 107.3009**, and **21.7486, 27.1884, 57.5277** is the 20% darker color. If you saturate the color by 10%, you get **40.8475, 52.8150, 102.6492**, and if you desaturate by 10%, it is **42.4118, 55.3269, 103.0516**.

# Distribution



- Red (0%)
- Green (82%)
- Blue (100%)



- Red (0%)
- Yellow (45%)
- Blue (100%)



- Cyan (100%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (18%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.8505, 52.8209, 102.6502 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 40.8505, 52.8209, 102.6502 by changing the saturation by 10% instead.



40.8505, 52.8209,  
102.6502

40.8505, 52.8209,  
102.6502

340.7687,  
397.5976, 589.9755

28.3894, 37.6598,  
77.8865

75.7330, 94.3408,  
166.8780

18.7614, 25.7188,  
57.4648

98.8852, 121.4683,  
207.1791

11.6010, 16.6134,  
40.9667

126.3318,  
153.3535, 253.4965

6.5428, 9.9592,  
27.9736

158.4382,  
190.3808, 306.2486

3.2216, 5.3719,  
18.0669

195.5697,  
232.9344, 365.8540

1.2720, 2.4671,  
10.8281

238.0918,

0.1621, 0.8601,

281.3988, 432.7313

5.8386

286.3696,  
336.1584, 507.2990

■ 0.0000, 0.0000,  
2.6800

■ 0.0000, 0.0000,  
0.9333

■ 40.8505, 52.8209,  
102.6502

■ 40.8505, 52.8209,  
102.6502

■ 40.8475, 52.8150,  
102.6492

■ 42.4118, 55.3269,  
103.0516

■ 44.5439, 58.1750,  
103.4889

■ 47.4127, 61.4522,  
103.9703

■ 51.1193, 65.2108,  
104.5004

■ 55.7482, 69.4948,  
105.0833

■ 61.3734, 74.3428,  
105.7226

■ 68.0614, 79.7894,  
106.4214

■ 75.8727, 85.8661,  
107.1826

■ 84.8630, 92.6021,  
108.0090

# Harmonies

## Analogous

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



36.5840, 52.8209, 76.8521



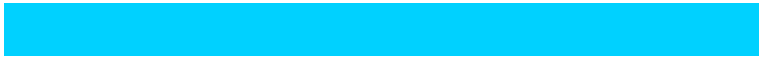
40.8505, 52.8209, 102.6502



47.9909, 52.8209, 117.1140

# Triad

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



40.8505, 52.8209, 102.6502



68.1062, 52.8209, 64.1918



44.3376, 52.8209, 24.2331

# Complementary

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



40.8505, 52.8209, 102.6502



42.2205, 23.2203, 2.2590

# 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.



52.4856, 52.8209, 22.6043



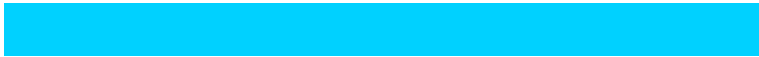
40.8505, 52.8209, 102.6502



66.8451, 52.8209, 41.7251

# Square

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



40.8505, 52.8209, 102.6502



64.1621, 52.8209, 91.1843



60.8878, 52.8209, 28.0332

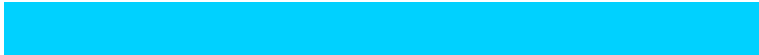


38.4341, 52.8209, 33.3566



# Rectangle

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



40.8505, 52.8209, 102.6502



53.6822, 52.8209, 116.1810



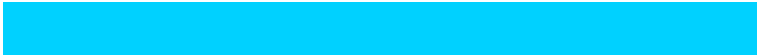
60.8878, 52.8209, 28.0332



46.8807, 52.8209, 22.9181

# Sweetspot

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



40.8521, 52.8227, 102.6504



68.0385, 79.7711, 106.4191



36.1892, 71.6918, 14.1746



13.9312, 16.5669, 22.7134



0.0000, 0.0000, 0.0000

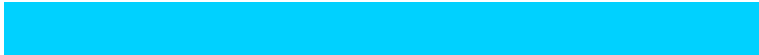


20.3446, 21.4041, 23.3091

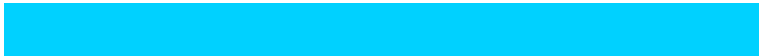


# Same Dimension

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



40.8521, 52.8227, 102.6504



40.8475, 52.8150, 102.6492



21.3038, 13.7260, 96.1343



18.2597, 19.8911, 23.1269



21.4447, 27.7990, 53.6701



2.1574, 2.8454, 5.2488



# Inverse Universe

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



52.7498, 25.8653, 62.5355



52.7471, 25.8628, 62.5257



55.6202, 50.0197, 6.7256



18.6437, 18.2408, 22.0071



27.6125, 13.5343, 32.9395



2.7235, 1.3318, 3.3916



# Previews

## White Background



This preview shows how the XYZ color 40.8505, 52.8209, 102.6502 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

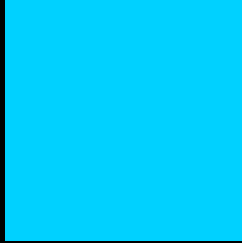
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.8505, 52.8209, 102.6502 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 40.8505, 52.8209, 102.6502

## Background



This preview shows how black text looks on a background with the XYZ color 40.8505, 52.8209, 102.6502.



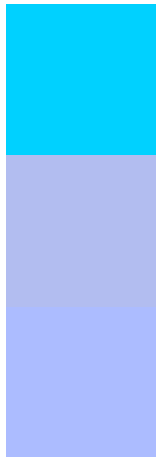
This preview shows how white text looks on a background with the XYZ color 40.8505, 52.8209,



# 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

40.8505, 52.8209, 102.6502

### Protanopia

52.2859, 52.1514, 89.7485

### Deuteranopia

53.0465, 51.9571, 101.8406



## Tritanopia

37.6863, 52.7441, 82.3231

# Trichromacy



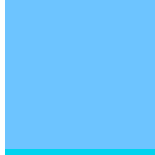
## Original Color

40.8505, 52.8209, 102.6502



## Protanomaly

43.0314, 49.5831, 93.6887



## Deuteranomaly

44.0966, 49.9511, 101.9251



## Tritanomaly

38.7269, 52.7616, 89.0318

# Monochromacy



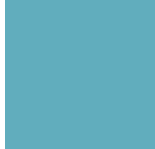
## Original Color

40.8505, 52.8209, 102.6502



## Achromatopsia

29.8446, 31.3989, 34.1934



## Achromatomaly

29.0586, 36.1027, 53.5811

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.8505, 52.8209, 102.6502 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, 209, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 209, 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, 209, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 209, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 40.8505, 52.8209, 102.6502 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, 209, 255) }
```



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

```
.border{ border-color:rgb(0, 209, 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, 209, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 209, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 209, 255); box-shadow:4px 4px 4px 4px rgb(0, 209, 255) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.8505, 52.8209, 102.6502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 209, 255) }
```

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

```
.background{ background-color: rgb(0, 209,  
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