

# Converting Colors

XYZ(21.6694, 44.6921,  
112.8878)

Have a look what the booklet for  
XYZ(21.6694, 44.6921, 112.8878)  
contains.

<b>XYZ(42.0966, 55.3131, 103.0655)</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(42.0966, 55.3131,  
103.0655)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D6FF
RGB	0, 214, 255
RGB Percent	0%, 84%, 100%
CMY	0.9997, 0.1608, 0.0000
CMYK	1.00, 0.16, 0.00, 0.00
HSL	190°, 100%, 50%
HSV	190°, 100%, 100%
XYZ	42.0966, 55.3131, 103.0655
YIQ	154.6880, -140.7050, -32.6170

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 116, 255
Decimal	55039
CIELab	79.22, -29.31, -32.20
CIELCh	79, 43.539, 227.691
Yxy	55.3131, 0.2100, 0.2759
Android (android.graphics.Color)	4278245119 (0xFF00D6FF)
YUV	154.6880, 49.4538, -135.6614
Hunter-Lab	74.3728, -29.1175, -30.1029

# Details

The XYZ color **42.0966, 55.3131, 103.0655** 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 **42.0361, 22.8515, 2.1976**, and the grayscale version is **30.8624, 32.4697, 35.3595**.

A 20% lighter version of the original color is **61.0125, 82.4530, 107.3071**, and **22.5912, 28.8735, 57.8085** is the 20% darker color. If you saturate the color by 10%, you get **42.0939, 55.3078, 103.0646**, and if you desaturate by 10%, it is **43.5637, 57.6307, 103.4355**.

# Distribution



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



- Red (0%)
- Yellow (45%)
- 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 42.0966, 55.3131, 103.0655 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 42.0966, 55.3131, 103.0655 by changing the saturation by 10% instead.





 42.0966, 55.3131,  
103.0655


 42.0966, 55.3131,  
103.0655


345.8680,  
407.0977, 591.3073

 29.3684, 39.6525,  
78.2320


 77.6101, 97.9995,  
167.4520


 19.5054, 27.2677,  
57.7470

 101.1260,  
125.7941, 207.8422

 12.1422, 17.7744,  
41.1919


 128.9685,  
158.4022, 254.2550

 6.9135, 10.7881,  
28.1483

 161.5031,  
196.2080, 307.1089

 3.4539, 5.9245,  
18.1974

 199.0949,  
239.5961, 366.8226

 1.3981, 2.7992,  
10.9209

242.1095,

 0.2549, 1.0278,

288.9508, 433.8145

5.9002

290.9121,  
344.6565, 508.5032

■ 0.0000, 0.0000,  
2.7167

■ 0.0000, 0.0000,  
0.9518

■ 42.0966, 55.3131,  
103.0655

■ 42.0966, 55.3131,  
103.0655

■ 42.0939, 55.3078,  
103.0646

■ 43.5637, 57.6307,  
103.4355

■ 45.5950, 60.2773,  
103.8393

■ 48.3565, 63.3396,  
104.2849

■ 51.9489, 66.8699,  
104.7769

■ 56.4569, 70.9121,  
105.3195

■ 61.9545, 75.5045,  
105.9162

■ 68.5078, 80.6817,  
106.5701

■ 76.1773, 86.4750,  
107.2841

■ 85.0188, 92.9134,  
108.0608

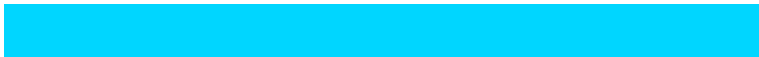
# Harmonies

## Analogous

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



38.1906, 55.3131, 75.9927



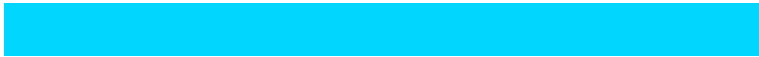
42.0966, 55.3131, 103.0655



49.0869, 55.3131, 120.2179

# Triad

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



42.0966, 55.3131, 103.0655



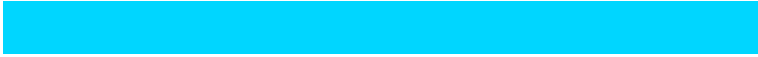
70.6723, 55.3131, 71.0294



47.6513, 55.3131, 25.1393

# Complementary

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



42.0966, 55.3131, 103.0655



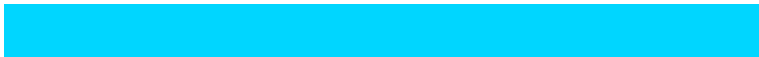
42.0361, 22.8515, 2.1976

# 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.



56.2213, 55.3131, 24.4944



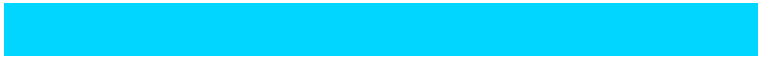
42.0966, 55.3131, 103.0655



70.1781, 55.3131, 46.8074

# Square

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



42.0966, 55.3131, 103.0655



65.9424, 55.3131, 98.5797



64.6586, 55.3131, 31.2867



41.1458, 55.3131, 33.3884

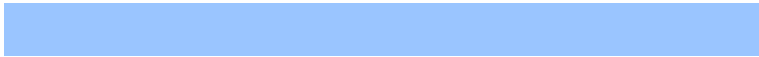


# Rectangle

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



42.0966, 55.3131, 103.0655



54.8446, 55.3131, 121.2837



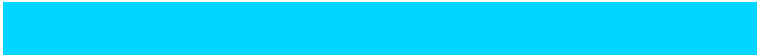
64.6586, 55.3131, 31.2867



50.3659, 55.3131, 24.1282

# Sweetspot

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



42.0982, 55.3150, 103.0658



68.4850, 80.6641, 106.5679



36.1161, 71.6625, 13.7896



14.0391, 16.7827, 22.7494



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

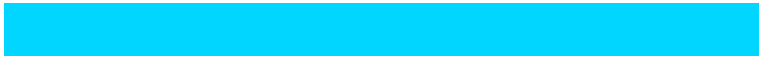


# Same Dimension

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



42.0982, 55.3150, 103.0658



42.0939, 55.3078, 103.0646



21.6487, 14.4159, 96.2493



18.2915, 19.9546, 23.1375



22.0878, 29.0852, 53.8844



2.2142, 2.9591, 5.2677



# Inverse Universe

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



53.3788, 26.1169, 65.8477



53.3762, 26.1145, 65.8386



54.8365, 48.4522, 6.4644



18.6598, 18.2472, 22.0915



27.9371, 13.6641, 34.6488

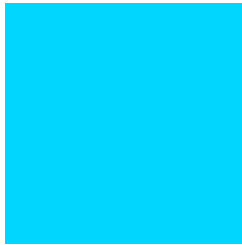


2.7522, 1.3433, 3.5427



# Previews

## White Background



This preview shows how the XYZ color 42.0966, 55.3131, 103.0655 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

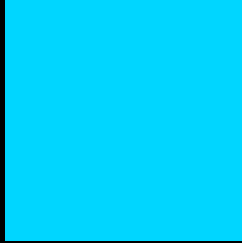
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.0966, 55.3131, 103.0655 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 42.0966, 55.3131, 103.0655

## Background



This preview shows how black text looks on a background with the XYZ color 42.0966, 55.3131, 103.0655.



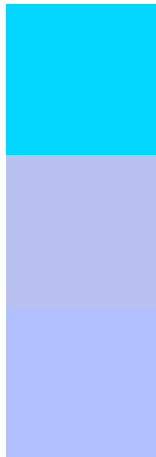
This preview shows how white text looks on a background with the XYZ color 42.0966, 55.3131,



# 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

42.0966, 55.3131, 103.0655

### Protanopia

54.5653, 54.6215, 90.1052

### Deuteranopia

55.4900, 54.5030, 102.2032



## Tritanopia

39.6641, 55.5662, 86.4767

# Trichromacy



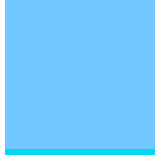
## Original Color

42.0966, 55.3131, 103.0655



## Protanomaly

44.7042, 52.1478, 94.0956



## Deuteranomaly

45.6437, 52.1060, 102.2595



## Tritanomaly

40.5829, 55.5225, 92.5824

# Monochromacy



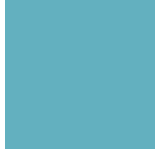
## Original Color

42.0966, 55.3131, 103.0655



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

30.0749, 37.4649, 54.9366

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.0966, 55.3131, 103.0655 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, 214, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 214, 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, 214, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 214, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.0966, 55.3131, 103.0655 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, 214, 255) }
```



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

```
.border{ border-color:rgb(0, 214, 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, 214, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 214, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 214, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 214,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.0966, 55.3131, 103.0655 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 214, 255) }
```

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

```
.background{ background-color: rgb(0, 214,  
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