

# Converting Colors

XYZ(42.1428, 55.2161,  
103.0444)

Have a look what the booklet for  
XYZ(42.1428, 55.2161, 103.0444)  
contains.

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# Color

**XYZ(42.2217, 55.3777,  
103.0714)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0AD6FF
RGB	10, 214, 255
RGB Percent	4%, 84%, 100%
CMY	0.9605, 0.1608, 0.0000
CMYK	0.96, 0.16, 0.00, 0.00
HSL	190°, 100%, 52%
HSV	190°, 96%, 100%
XYZ	42.2217, 55.3777, 103.0714
YIQ	157.6780, -134.7450, -30.4970

# Conversions

## Conversions Part 2

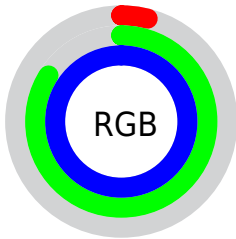
<b>Format</b>	<b>Color</b>
<b>RYB</b>	10, 121, 255
Decimal	710399
CIELab	79.26, -29.09, -32.14
CIELCh	79, 43.348, 227.851
Yxy	55.3777, 0.2104, 0.2760
Android (android.graphics.Color)	4278900479 (0xFF0AD6FF)
YUV	157.6780, 47.9797, -129.5136
Hunter-Lab	74.4162, -28.9524, -30.0293

# Details

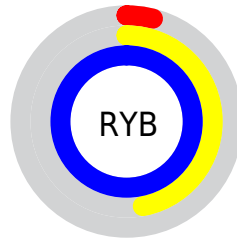
The XYZ color **42.2217, 55.3777, 103.0714** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **42.4819, 23.6556, 2.6161**, and the grayscale version is **32.1972, 33.8739, 36.8887**.

A 20% lighter version of the original color is **61.1461, 82.5219, 107.3133**, and **22.5912, 28.8735, 57.8085** is the 20% darker color. If you saturate the color by 10%, you get **41.6729, 54.4658, 102.9243**, and if you desaturate by 10%, it is **43.9044, 57.8709, 103.4639**.

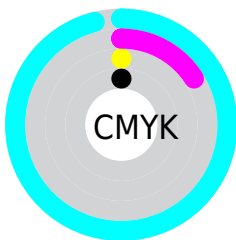
# Distribution



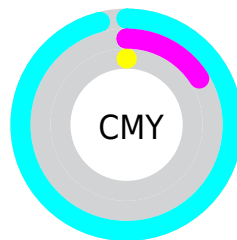
- Red (4%)
- Green (84%)
- Blue (100%)



- Red (4%)
- Yellow (47%)
- Blue (100%)



- Cyan (96%)
- Magenta (16%)
- Yellow (0%)
- Black (0%)



- Cyan (96%)
- Magenta (16%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.2217, 55.3777, 103.0714 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 42.2217, 55.3777, 103.0714 by changing the saturation by 10% instead.



42.2217, 55.3777,  
103.0714

42.2217, 55.3777,  
103.0714

346.3772,  
407.3421, 591.3262

29.4668, 39.7042,  
78.2369

77.7981, 98.0941,  
167.4602

19.5803, 27.3080,  
57.7510

101.3503,  
125.9058, 207.8516

12.1968, 17.8047,  
41.1951

129.2324,  
158.5324, 254.2657

6.9510, 10.8098,  
28.1508

161.8096,  
196.3583, 307.1211

3.4775, 5.9391,  
18.1993

199.4473,  
239.7677, 366.8363

1.4110, 2.8081,  
10.9222

242.5109,

0.2641, 1.0324,

289.1453, 433.8299

5.9011

291.3657,  
344.8753, 508.5203

■ 0.0000, 0.0000,  
2.7172

■ 0.0000, 0.0000,  
0.9521

■ 42.2217, 55.3777,  
103.0714

■ 42.2217, 55.3777,  
103.0714

■ 41.6729, 54.4658,  
102.9243

■ 43.9044, 57.8709,  
103.4639

■ 46.2435, 60.7439,  
103.8952

■ 49.3569, 64.0586,  
104.3709

■ 53.3381, 67.8636,  
104.8955

■ 58.2671, 72.2006,  
105.4728

■ 64.2146, 77.1061,  
106.1062

■ 71.2445, 82.6135,  
106.7988

■ 79.4151, 88.7531,  
107.5532

■ 88.7808, 95.5532,  
108.3721

# Harmonies

## Analogous

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



38.3081, 55.3777, 76.1477



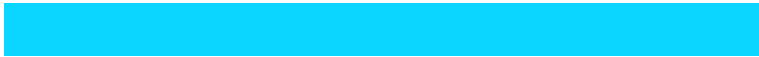
42.2217, 55.3777, 103.0714



49.2037, 55.3777, 120.0489

# Triad

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



42.2217, 55.3777, 103.0714



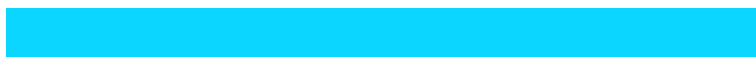
70.6717, 55.3777, 70.9135



47.6884, 55.3777, 25.3132

# Complementary

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



42.2217, 55.3777, 103.0714



42.4819, 23.6556, 2.6161

# 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.



56.2219, 55.3777, 24.6303



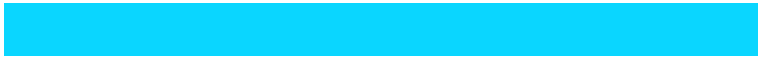
42.2217, 55.3777, 103.0714



70.1507, 55.3777, 46.8141

# Square

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



42.2217, 55.3777, 103.0714



65.9869, 55.3777, 98.3452



64.6331, 55.3777, 31.3750

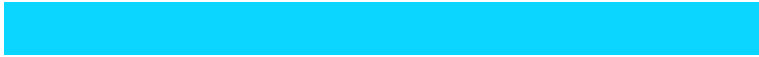


41.2176, 55.3777, 33.5978



# Rectangle

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



42.2217, 55.3777, 103.0714



54.9448, 55.3777, 121.0358



64.6331, 55.3777, 31.3750



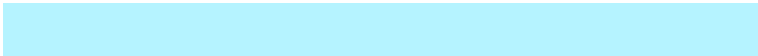
50.3905, 55.3777, 24.2896

# Sweetspot

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



42.2233, 55.3796, 103.0717



69.0554, 80.9250, 106.5882



36.4812, 71.8230, 15.0599



14.1398, 16.8190, 22.7511



0.0000, 0.0000, 0.0000

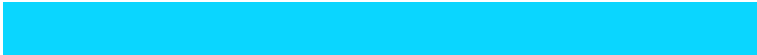


20.3446, 21.4041, 23.3091



# Same Dimension

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



42.2233, 55.3796, 103.0717



41.6729, 54.4658, 102.9243



21.9784, 14.8897, 96.3233



18.2809, 19.9333, 23.1340



21.8706, 28.6508, 53.8120



2.1950, 2.9208, 5.2613



# Inverse Universe

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



53.4873, 26.3338, 65.8841



53.1638, 26.0295, 64.7196



56.3072, 51.3061, 7.2245



18.6544, 18.2451, 22.0633



27.8275, 13.6203, 34.0716

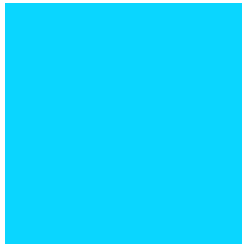


2.7426, 1.3394, 3.4917



# Previews

## White Background



This preview shows how the XYZ color 42.2217, 55.3777, 103.0714 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

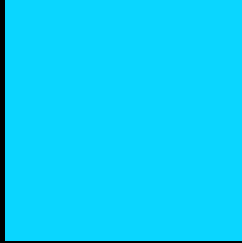
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.2217, 55.3777, 103.0714 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 42.2217, 55.3777, 103.0714

## Background



This preview shows how black text looks on a background with the XYZ color 42.2217, 55.3777, 103.0714.



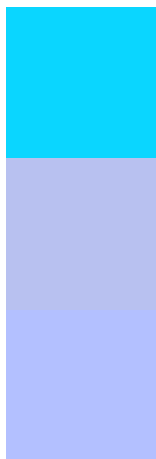
This preview shows how white text looks on a background with the XYZ color 42.2217, 55.3777,



# 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

42.2217, 55.3777, 103.0714

### Protanopia

54.5653, 54.6215, 90.1052

### Deuteranopia

55.4900, 54.5030, 102.2032



## Tritanopia

39.6641, 55.5662, 86.4767

# Trichromacy



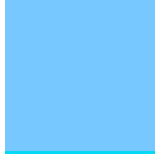
## Original Color

42.2217, 55.3777, 103.0714



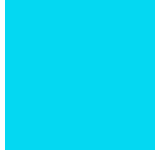
## Protanomaly

45.2532, 52.4308, 94.1213



## Deuteranomaly

46.1755, 52.3801, 102.2844



## Tritanomaly

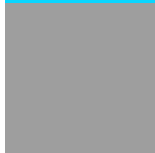
40.6329, 55.5484, 92.5847

# Monochromacy



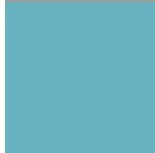
## Original Color

42.2217, 55.3777, 103.0714



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

31.2550, 38.6341, 56.2619

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.2217, 55.3777, 103.0714 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(10, 214, 255)` looks like.

```
.text, #text, p{  
    color:rgb(10, 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(10, 214, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 214, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.2217, 55.3777, 103.0714 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(10, 214, 255) }
```



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

```
.border{ border-color:rgb(10, 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(10, 214, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 214, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 214, 255);  
box-shadow:4px 4px 4px 4px rgb(10, 214,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.2217, 55.3777, 103.0714 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 214, 255) }
```

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

```
.background{ background-color: rgb(10, 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](#).

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