

# Converting Colors

XYZ(62.6906, 100.0000,  
99.8271)

Have a look what the booklet for  
XYZ(62.6906, 100.0000, 99.8271)  
contains.

<b>XYZ(51.7870, 77.9308, 96.3171)</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(51.7870, 77.9308,  
96.3171)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFF2
RGB	0, 255, 242
RGB Percent	0%, 100%, 95%
CMY	0.9997, 0.0000, 0.0510
CMYK	1.00, 0.00, 0.05, 0.00
HSL	177°, 100%, 50%
HSV	177°, 100%, 100%
XYZ	51.7870, 77.9308, 96.3171
YIQ	177.2730, -147.8070, -58.1030

# Conversions

## Conversions Part 2

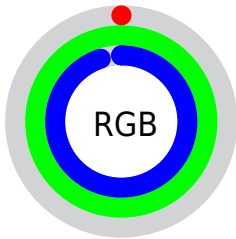
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 131, 255
Decimal	65522
CIELab	90.75, -51.74, -7.94
CIELCh	91, 52.348, 188.725
Yxy	77.9308, 0.2291, 0.3448
Android (android.graphics.Color)	4278255602 (0xFF00FF2)
YUV	177.2730, 31.9104, -155.4684
Hunter-Lab	88.2784, -49.7733, -2.8941

# Details

The XYZ color **51.7870, 77.9308, 96.3171** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **41.3138, 21.2907, 2.3150**, and the grayscale version is **41.8368, 44.0155, 47.9329**.

A 20% lighter version of the original color is **61.5557, 82.7331, 107.3325**, and **28.8292, 43.4777, 53.3269** is the 20% darker color. If you saturate the color by 10%, you get **51.7868, 77.9307, 96.3158**, and if you desaturate by 10%, it is **52.3983, 78.2233, 97.3702**.

# Distribution



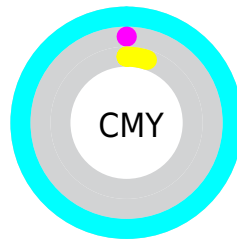
- Red (0%)
- Green (100%)
- Blue (95%)



- Red (0%)
- Yellow (51%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (5%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.7870, 77.9308, 96.3171 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 51.7870, 77.9308, 96.3171 by changing the saturation by 10% instead.





 51.7870, 77.9308,  
96.3171


 51.7870, 77.9308,  
96.3171


383.9512,  
487.9318, 569.4647


 37.0589, 58.0171,  
72.6288


 91.9931, 130.4526,  
158.0942


 25.4270, 41.8224,  
53.1825


 118.2019,  
163.8295, 197.0200

 16.5259, 28.9623,  
37.5597


 148.9682,  
202.4629, 241.8620

 9.9902, 19.0523,  
25.3420

 184.6575,  
246.7372, 293.0388

 5.4547, 11.7081,  
16.1107

225.6351,  
297.0369, 350.9690

 2.5539, 6.5452,  
9.4473

272.2663,

 0.9225, 3.1794,

353.7463, 416.0710

4.9333

324.9166,  
417.2498, 488.7634

■ 0.0000, 1.2261,  
2.1501

■ 0.0000, 0.0828,  
0.6454

■ 51.7870, 77.9308,  
96.3171

■ 51.7870, 77.9308,  
96.3171

■ 51.7868, 77.9307,  
96.3158

■ 52.3983, 78.2233,  
97.3702

■ 53.5493, 78.7938,  
98.4545

■ 55.4053, 79.7276,  
99.5790

■ 58.0668, 81.0766,  
100.7485

■ 61.6184, 82.8842,  
101.9669

■ 66.1338, 85.1885,  
103.2378

■ 71.6792, 88.0237,  
104.5642

■ 78.3147, 91.4206,  
105.9490

■ 86.0961, 95.4081,  
107.3948

# Harmonies

## Analogous

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



52.9219, 77.9308, 61.2002



51.7870, 77.9308, 96.3171



56.0464, 77.9308, 138.6850

# Triad

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



51.7870, 77.9308, 96.3171



91.0387, 77.9308, 154.8006



83.6279, 77.9308, 33.6866

# Complementary

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



51.7870, 77.9308, 96.3171



41.3138, 21.2907, 2.3150

# 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.



95.5966, 77.9308, 47.1404



51.7870, 77.9308, 96.3171



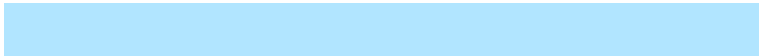
100.2150, 77.9308, 113.9291

# Square

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



51.7870, 77.9308, 96.3171



77.9724, 77.9308, 178.4238



101.9749, 77.9308, 74.3374



70.3017, 77.9308, 31.5219



# Rectangle

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



51.7870, 77.9308, 96.3171



61.7062, 77.9308, 162.9977



101.9749, 77.9308, 74.3374



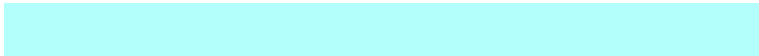
87.9860, 77.9308, 36.7955

# Sweetspot

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



51.7881, 77.9313, 96.3186



71.6633, 88.0155, 104.5607



35.9926, 71.6399, 11.9328



14.8110, 18.5689, 22.2591



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.



51.7881, 77.9313, 96.3186



51.7868, 77.9307, 96.3158



28.1044, 27.3275, 98.4012



18.5125, 20.4645, 23.0018



27.0772, 40.7275, 50.4190



2.6482, 3.9702, 4.9713



# Inverse Universe

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



41.3138, 21.2907, 2.3150



41.3127, 21.2891, 2.3126



46.8745, 32.5284, 3.8100



18.0469, 18.0021, 18.8642



21.6022, 11.1302, 1.2898

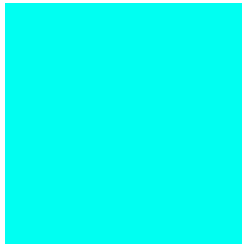


2.1159, 1.0887, 0.1920



# Previews

## White Background



This preview shows how the XYZ color 51.7870, 77.9308, 96.3171 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

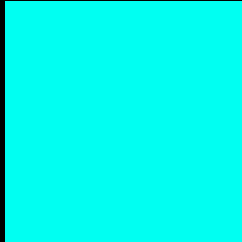
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.7870, 77.9308, 96.3171 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 51.7870, 77.9308, 96.3171

## Background



This preview shows how black text looks on a background with the XYZ color 51.7870, 77.9308, 96.3171.



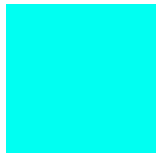
This preview shows how white text looks on a background with the XYZ color 51.7870, 77.9308,



# Color Blindness Simulation

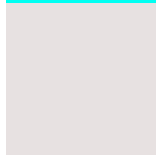
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



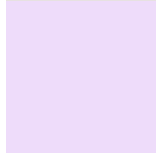
### Original Color

51.7870, 77.9308, 96.3171



### Protanopia

73.4708, 76.2756, 82.0845



### Deuteranopia

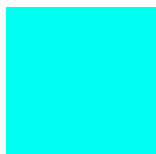
78.1084, 76.2657, 101.0465



## **Tritanopia**

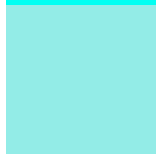
62.7510, 77.3997, 106.2400

# Trichromacy



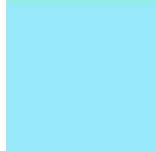
## Original Color

51.7870, 77.9308, 96.3171



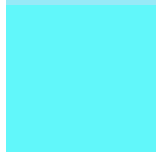
## Protanomaly

56.4519, 71.9635, 86.5163



## Deuteranomaly

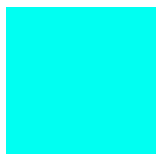
58.6899, 71.5725, 98.7173



## Tritanomaly

55.4458, 75.9650, 102.1829

# Monochromacy



## Original Color

51.7870, 77.9308, 96.3171



## Achromatopsia

41.7894, 43.9657, 47.8787



## Achromatomaly

39.1840, 51.3904, 63.1125

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.7870, 77.9308, 96.3171 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, 255, 242)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 242)  
}
```

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, 255, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 242) }
```

## Border

The CSS property to change the border of an element to XYZ 51.7870, 77.9308, 96.3171 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, 255, 242) }
```



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

```
.border{ border-color:rgb(0, 255, 242) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 255, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 242);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
242) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.7870, 77.9308, 96.3171 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 242) }
```

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

```
.background{ background-color: rgb(0, 255,  
242) }
```

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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