

# Converting Colors

XYZ(77.6967, 80.0096,  
329.1393)

Have a look what the booklet for  
XYZ(77.6967, 80.0096, 329.1393)  
contains.

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# Color

**XYZ(49.8021, 70.7243,  
105.6340)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F2FF
RGB	0, 242, 255
RGB Percent	0%, 95%, 100%
CMY	0.9997, 0.0510, 0.0000
CMYK	1.00, 0.05, 0.00, 0.00
HSL	183°, 100%, 50%
HSV	183°, 100%, 100%
XYZ	49.8021, 70.7243, 105.6340
YIQ	171.1240, -148.4050, -47.2610

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 124, 255
Decimal	62207
CIELab	87.35, -42.38, -19.80
CIELCh	87, 46.780, 205.039
Yxy	70.7243, 0.2202, 0.3127
Android (android.graphics.Color)	4278252287 (0xFF00F2FF)
YUV	171.1240, 41.3509, -150.0757
Hunter-Lab	84.0977, -41.4646, -15.6049

# Details

The XYZ color **49.8021, 70.7243, 105.6340** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **41.3852, 21.5498, 1.9803**, and the grayscale version is **38.6347, 40.6467, 44.2643**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **27.5420, 38.7751, 59.4588** is the 20% darker color. If you saturate the color by 10%, you get **49.8021, 70.7241, 105.6340**, and if you desaturate by 10%, it is **50.6066, 71.7170, 105.7833**.

# Distribution



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



- Red (0%)
- Yellow (49%)
- Blue (100%)



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




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


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.8021, 70.7243, 105.6340 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 49.8021, 70.7243, 105.6340 by changing the saturation by 10% instead.





 49.8021, 70.7243,  
105.6340


 49.8021, 70.7243,  
105.6340


376.3563,  
463.0891, 599.5090

 35.4733, 52.1172,  
80.3710


 89.0752, 120.2411,  
170.9974


 24.1959, 37.0985,  
59.4957


 114.7502,  
151.9196, 211.9349

 15.6046, 25.2838,  
42.5897


 144.9380,  
188.7240, 258.9343

 9.3338, 16.2886,  
29.2343

 180.0039,  
231.0388, 312.4142

 5.0184, 9.7286,  
19.0110

220.3134,  
279.2483, 372.7931

 2.2929, 5.2194,  
11.5013

266.2317,

 0.7910, 2.3766,

333.7369, 440.4894

6.2867

318.1242,  
394.8890, 515.9219

■ 0.0000, 0.8138,  
2.9486

■ 0.0000, 0.0000,  
1.0685

■ 49.8021, 70.7243,  
105.6340

■ 49.8021, 70.7243,  
105.6340

■ 49.8021, 70.7241,  
105.6340

■ 50.6066, 71.7170,  
105.7833

■ 51.9514, 72.9908,  
105.9583

■ 54.0026, 74.6329,  
106.1671

■ 56.8607, 76.6951,  
106.4145

60.6102, 79.2209,  
106.7044

65.3250, 82.2485,  
107.0403

71.0711, 85.8119,  
107.4252

77.9088, 89.9421,  
107.8621

85.8937, 94.6679,  
108.3534

# Harmonies

## Analogous

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



48.2538, 70.7243, 71.8805



49.8021, 70.7243, 105.6340



55.8021, 70.7243, 138.1732

# Triad

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



49.8021, 70.7243, 105.6340



86.1134, 70.7243, 117.2499



69.0692, 70.7243, 31.0098

# Complementary

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



49.8021, 70.7243, 105.6340



41.3852, 21.5498, 1.9803

# 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.



80.1009, 70.7243, 37.2289



49.8021, 70.7243, 105.6340



90.6033, 70.7243, 82.3711

# Square

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



49.8021, 70.7243, 105.6340



76.5886, 70.7243, 146.0627



88.2915, 70.7243, 54.0839



58.6508, 70.7243, 34.0910

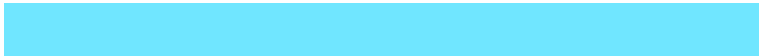


# Rectangle

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



49.8021, 70.7243, 105.6340



61.9012, 70.7243, 151.7182



88.2915, 70.7243, 54.0839



72.8378, 70.7243, 32.0177

# Sweetspot

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



49.8041, 70.7268, 105.6344



71.0535, 85.8011, 107.4241



35.8324, 71.5491, 12.2964



14.6623, 18.0291, 22.9571



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.



49.8041, 70.7268, 105.6344



49.8021, 70.7241, 105.6340



24.1577, 19.4340, 97.0856



18.4709, 20.3133, 23.1973



26.0572, 37.0240, 55.2076



2.5605, 3.6517, 5.3832



# Inverse Universe

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



57.2683, 27.6726, 86.3301



57.2670, 27.6708, 86.3269



50.6598, 40.0989, 5.0719



18.7503, 18.2834, 22.5683



29.9407, 14.4656, 45.1995

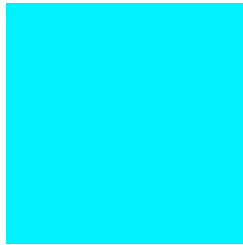


2.9270, 1.4132, 4.4631



# Previews

## White Background



This preview shows how the XYZ color 49.8021, 70.7243, 105.6340 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

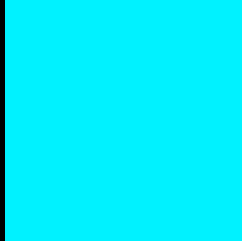
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.8021, 70.7243, 105.6340 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 49.8021, 70.7243, 105.6340

## Background



This preview shows how black text looks on a background with the XYZ color 49.8021, 70.7243, 105.6340.



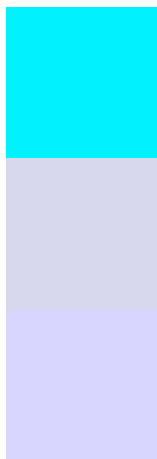
This preview shows how white text looks on a background with the XYZ color 49.8021, 70.7243,



# 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

49.8021, 70.7243, 105.6340

### Protanopia

67.7574, 69.2210, 90.6787

### Deuteranopia

70.1632, 69.4074, 104.3067



## Tritanopia

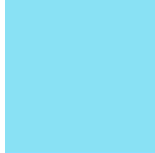
53.0382, 70.6444, 105.4481

# Trichromacy



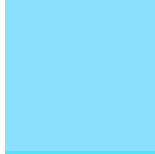
## Original Color

49.8021, 70.7243, 105.6340



## Protanomaly

53.5709, 65.7004, 95.4459



## Deuteranomaly

55.0222, 65.8497, 104.4180



## Tritanomaly

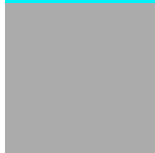
50.7201, 69.8828, 105.4232

# Monochromacy



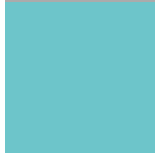
## Original Color

49.8021, 70.7243, 105.6340



## Achromatopsia

38.7082, 40.7240, 44.3485



## Achromatomaly

36.9336, 47.4480, 63.0889

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.8021, 70.7243, 105.6340 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, 242, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 242, 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, 242, 255) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 49.8021, 70.7243, 105.6340 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, 242, 255) }
```



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

```
.border{ border-color:rgb(0, 242, 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, 242, 255) colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to XYZ 49.8021, 70.7243, 105.6340 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

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