

# Converting Colors

XYZ(78.3921, 82.0733,  
305.3664)

Have a look what the booklet for  
XYZ(78.3921, 82.0733, 305.3664)  
contains.

<b>XYZ(50.4007, 71.9214, 105.8336)</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(50.4007, 71.9214,  
105.8336)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F4FF
RGB	0, 244, 255
RGB Percent	0%, 96%, 100%
CMY	0.9997, 0.0431, 0.0000
CMYK	1.00, 0.04, 0.00, 0.00
HSL	183°, 100%, 50%
HSV	183°, 100%, 100%
XYZ	50.4007, 71.9214, 105.8336
YIQ	172.2980, -148.9550, -48.3070

# Conversions

## Conversions Part 2

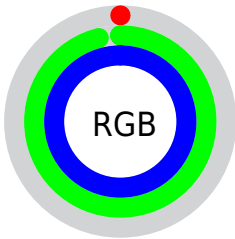
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 125, 255
Decimal	62719
CIELab	87.93, -43.27, -18.92
CIELCh	88, 47.232, 203.620
Yxy	71.9214, 0.2209, 0.3152
Android (android.graphics.Color)	4278252799 (0xFF00F4FF)
YUV	172.2980, 40.7721, -151.1053
Hunter-Lab	84.8065, -42.3284, -14.6260

# Details

The XYZ color **50.4007, 71.9214, 105.8336** 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 **41.3609, 21.5012, 1.9724**, and the grayscale version is **39.2298, 41.2728, 44.9460**.

A 20% lighter version of the original color is **61.5557, 82.7331, 107.3325**, and **27.9634, 39.6179, 59.5993** is the 20% darker color. If you saturate the color by 10%, you get **50.4007, 71.9215, 105.8336**, and if you desaturate by 10%, it is **51.1490, 72.8015, 105.9640**.

# Distribution



- Red (0%)
- Green (96%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (4%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.4007, 71.9214, 105.8336 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 50.4007, 71.9214, 105.8336 by changing the saturation by 10% instead.




 50.4007, 71.9214,  
105.8336


 50.4007, 71.9214,  
105.8336

378.6570,  
467.2680, 600.1439


 35.9510, 53.0945,  
80.5373


 89.9566, 121.9448,  
171.2726


 24.5663, 37.8782,  
59.6319


 115.7934,  
153.9100, 212.2524

 15.8812, 25.8882,  
42.6986


 146.1567,  
191.0235, 259.2972

 9.5305, 16.7400,  
29.3191

 181.4118,  
233.6696, 312.8254

 5.1486, 10.0493,  
19.0747

221.9240,  
282.2327, 373.2556

 2.3704, 5.4316,  
11.5469

268.0587,

 0.8303, 2.5027,

337.0972, 441.0064

6.3172

320.1812,  
398.6475, 516.4963

■ 0.0000, 0.8780,  
2.9670

■ 0.0000, 0.0000,  
1.0778

■ 50.4007, 71.9214,  
105.8336

■ 50.4007, 71.9214,  
105.8336

■ 50.4007, 71.9215,  
105.8336

■ 51.1490, 72.8015,  
105.9640

■ 52.4367, 73.9611,  
106.1200

■ 54.4301, 75.4874,  
106.3095

■ 57.2296, 77.4323,  
106.5374

■ 60.9199, 79.8393,  
106.8075

■ 65.5746, 82.7465,  
107.1233

■ 71.2598, 86.1878,  
107.4879

■ 78.0358, 90.1945,  
107.9041

■ 85.9583, 94.7951,  
108.3745

# Harmonies

## Analogous

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



49.0440, 71.9214, 71.6287



50.4007, 71.9214, 105.8336



56.3197, 71.9214, 139.4931

# Triad

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



50.4007, 71.9214, 105.8336



87.2864, 71.9214, 121.0809



70.7900, 71.9214, 31.4829

# Complementary

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



50.4007, 71.9214, 105.8336



41.3609, 21.5012, 1.9724

# 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.



82.0026, 71.9214, 38.2867



50.4007, 71.9214, 105.8336



92.1773, 71.9214, 85.3947

# Square

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



50.4007, 71.9214, 105.8336



77.3935, 71.9214, 149.8507



90.1450, 71.9214, 56.0273



60.0567, 71.9214, 34.1731



# Rectangle

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



50.4007, 71.9214, 105.8336



62.4411, 71.9214, 154.0109



90.1450, 71.9214, 56.0273



74.6397, 71.9214, 32.6574

# Sweetspot

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



50.4027, 71.9239, 105.8340



71.2413, 86.1768, 107.4867



35.8079, 71.5393, 12.1674



14.7081, 18.1206, 22.9724



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.



50.4027, 71.9239, 105.8340



50.4007, 71.9215, 105.8336



24.6526, 20.4238, 97.2506



18.4838, 20.3391, 23.2016



26.3650, 37.6396, 55.3102



2.5871, 3.7048, 5.3920



# Inverse Universe

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



57.5705, 27.7935, 87.9211



57.5692, 27.7917, 87.9182



50.0496, 38.8784, 4.8686



18.7568, 18.2860, 22.6026



30.0960, 14.5277, 46.0177

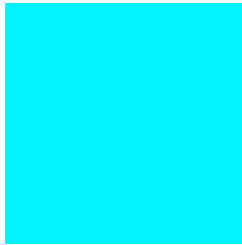


2.9404, 1.4185, 4.5337



# Previews

## White Background



This preview shows how the XYZ color 50.4007, 71.9214, 105.8336 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

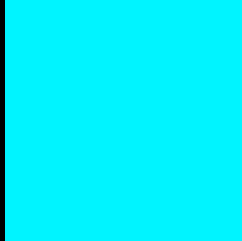
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.4007, 71.9214, 105.8336 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

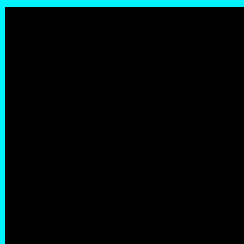
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 50.4007, 71.9214, 105.8336

## Background



This preview shows how black text looks on a background with the XYZ color 50.4007, 71.9214, 105.8336.



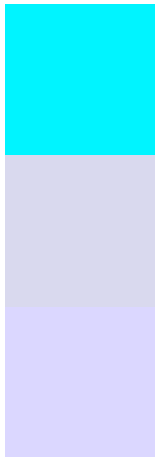
This preview shows how white text looks on a background with the XYZ color 50.4007, 71.9214,



# 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

50.4007, 71.9214, 105.8336

### Protanopia

68.8607, 70.5505, 90.8772

### Deuteranopia

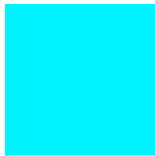
71.5639, 70.8809, 104.5173



## Tritanopia

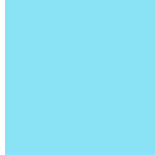
54.4502, 71.3723, 105.5142

# Trichromacy



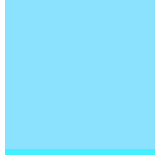
## Original Color

50.4007, 71.9214, 105.8336



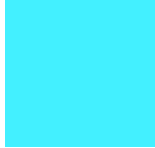
## Protanomaly

54.2795, 66.8731, 95.6349



## Deuteranomaly

55.8938, 67.1017, 104.6137



## Tritanomaly

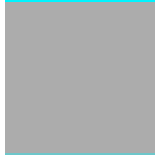
51.5248, 70.7335, 105.5450

# Monochromacy



## Original Color

50.4007, 71.9214, 105.8336



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

37.1614, 47.9036, 63.1648

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.4007, 71.9214, 105.8336 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, 244, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 244, 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, 244, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 244, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 50.4007, 71.9214, 105.8336 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, 244, 255) }
```



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

```
.border{ border-color:rgb(0, 244, 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, 244, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 244, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 244, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 244,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.4007, 71.9214, 105.8336 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 244, 255) }
```

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

```
.background{ background-color: rgb(0, 244,  
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