

# Converting Colors

XYZ(37.9014, 68.9567, 93.4987)

Have a look what the booklet for  
XYZ(37.9014, 68.9567, 93.4987)  
contains.

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# Color

**XYZ(50.2254, 75.2856,  
94.3225)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FBF0
RGB	0, 251, 240
RGB Percent	0%, 98%, 94%
CMY	0.9997, 0.0157, 0.0588
CMYK	1.00, 0.00, 0.04, 0.02
HSL	177°, 100%, 49%
HSV	177°, 100%, 98%
XYZ	50.2254, 75.2856, 94.3225
YIQ	174.6970, -146.0650, -56.6330

# Conversions

## Conversions Part 2

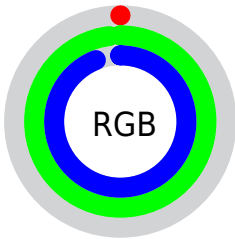
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 128, 251
Decimal	64496
CIELab	89.53, -50.62, -8.71
CIELCh	90, 51.367, 189.765
Yxy	75.2856, 0.2285, 0.3425
Android (android.graphics.Color)	4278254576 (0xFF00FBF0)
YUV	174.6970, 32.1944, -153.2093
Hunter-Lab	86.7673, -48.5177, -3.7156

# Details

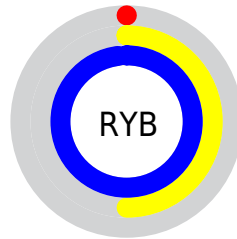
The XYZ color **50.2254, 75.2856, 94.3225** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **39.8466, 20.5358, 2.1825**, and the grayscale version is **40.4961, 42.6051, 46.3969**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **27.7217, 41.6006, 51.9160** is the 20% darker color. If you saturate the color by 10%, you get **50.2263, 75.2878, 94.3218**, and if you desaturate by 10%, it is **50.7959, 75.5624, 95.2070**.

# Distribution



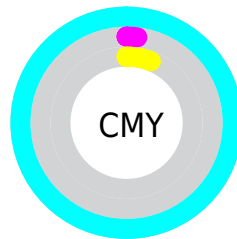
- Red (0%)
- Green (98%)
- Blue (94%)



- Red (0%)
- Yellow (50%)
- Blue (98%)



- Cyan (100%)
- Magenta (0%)
- Yellow (4%)
- Black (2%)




- Cyan (100%)
- Magenta (2%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.2254, 75.2856, 94.3225 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 50.2254, 75.2856, 94.3225 by changing the saturation by 10% instead.




 50.2254, 75.2856,  
94.3225


 50.2254, 75.2856,  
94.3225

377.9842,  
478.8986, 562.9226


 35.8111, 55.8469,  
70.9774


 89.6986, 126.7166,  
155.3158


 24.4577, 40.0802,  
51.8421


 115.4881,  
159.4776, 193.8011

 15.8001, 27.6011,  
36.4978


 145.8001,  
197.4482, 238.1703

 9.4728, 18.0252,  
24.5262

 180.9999,  
241.0128, 288.8418

 5.1104, 10.9680,  
15.5086

221.4528,  
290.5557, 346.2343

 2.3476, 6.0454,  
9.0265

267.5243,

 0.8188, 2.8727,

346.4614, 410.7662

4.6614

319.5796,  
409.1143, 482.8561

■ 0.0000, 1.0656,  
1.9948

■ 0.0000, 0.0000,  
0.5521

■ 50.2254, 75.2856,  
94.3225

■ 50.2254, 75.2856,  
94.3225

■ 50.2263, 75.2878,  
94.3218

■ 50.7959, 75.5624,  
95.2070

■ 51.8847, 76.1047,  
96.1192

■ 53.6528, 76.9970,  
97.0684

■ 56.1969, 78.2892,  
98.0592

■ 59.5984, 80.0233,  
99.0952

■ 63.9281, 82.2358,  
100.1800

■ 69.2496, 84.9595,  
101.3164

■ 75.6208, 88.2243,  
102.5071

■ 83.0954, 92.0577,  
103.7547

# Harmonies

## Analogous

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



51.1351, 75.2856, 60.2284



50.2254, 75.2856, 94.3225



54.4927, 75.2856, 134.8867

# Triad

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



50.2254, 75.2856, 94.3225



88.2107, 75.2856, 147.7617



80.2732, 75.2856, 32.5615

# Complementary

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



50.2254, 75.2856, 94.3225



39.8466, 20.5358, 2.1825

# 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.



91.8560, 75.2856, 45.0999



50.2254, 75.2856, 94.3225



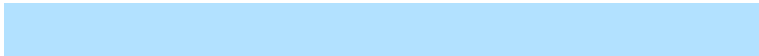
96.7989, 75.2856, 108.4078

# Square

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



50.2254, 75.2856, 94.3225



75.7479, 75.2856, 171.2010



98.2061, 75.2856, 70.7518



67.5230, 75.2856, 30.8216



# Rectangle

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



50.2254, 75.2856, 94.3225



60.0304, 75.2856, 157.7803



98.2061, 75.2856, 70.7518



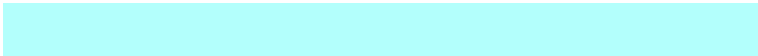
84.4714, 75.2856, 35.4299

# Sweetspot

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



50.2276, 75.2884, 94.3243



71.7497, 88.0501, 105.0153



34.6591, 69.0794, 11.5090



14.8320, 18.5773, 22.3698



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.



50.2276, 75.2884, 94.3243



52.0618, 78.0407, 97.7640



26.5147, 25.1670, 94.7300



17.7310, 19.5947, 22.0500



26.4149, 39.5790, 49.6556



2.4564, 3.6697, 4.6511



# Inverse Universe

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



39.8466, 20.5358, 2.1825



41.3015, 21.2846, 2.2536



45.6895, 32.3184, 3.8321



17.2754, 17.2375, 18.0403



20.9572, 10.7986, 1.2173

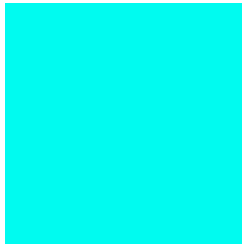


1.9515, 1.0043, 0.1681



# Previews

## White Background



This preview shows how the XYZ color 50.2254, 75.2856, 94.3225 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

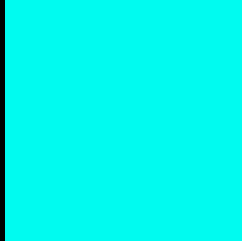
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.2254, 75.2856, 94.3225 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

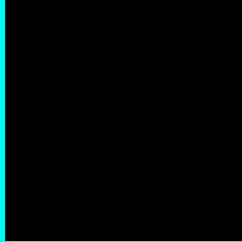
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 50.2254, 75.2856, 94.3225

## Background



This preview shows how black text looks on a background with the XYZ color 50.2254, 75.2856, 94.3225.



This preview shows how white text looks on a background with the XYZ color 50.2254, 75.2856,



# Color Blindness Simulation

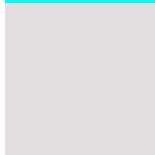
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



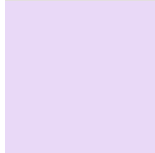
### Original Color

50.2254, 75.2856, 94.3225



### Protanopia

71.1191, 73.9012, 80.3280



### Deuteranopia

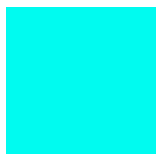
75.2056, 73.6647, 98.2506



## Tritanopia

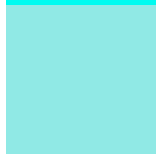
59.0416, 74.6085, 105.8968

# Trichromacy



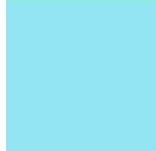
## Original Color

50.2254, 75.2856, 94.3225



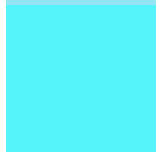
## Protanomaly

54.7834, 69.8643, 84.7265



## Deuteranomaly

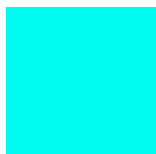
56.5612, 68.8662, 95.8994



## Tritanomaly

53.3523, 73.5348, 101.8242

# Monochromacy



## Original Color

50.2254, 75.2856, 94.3225



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

38.2203, 50.2149, 61.7109

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.2254, 75.2856, 94.3225 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, 251, 240)` looks like.

```
.text, #text, p{  
    color:rgb(0, 251, 240)  
}
```

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, 251, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 251, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 50.2254, 75.2856, 94.3225 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, 251, 240) }
```



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

```
.border{ border-color:rgb(0, 251, 240) }
```

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

Here you see how a box with a 4 pixel rgb(0, 251, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 251, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 251, 240);  
box-shadow:4px 4px 4px 4px rgb(0, 251,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.2254, 75.2856, 94.3225 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 251, 240) }
```

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

```
.background{ background-color: rgb(0, 251,  
240) }
```

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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