

# Converting Colors

XYZ(42.0010, 100.0000,  
54.9093)

Have a look what the booklet for  
XYZ(42.0010, 100.0000, 54.9093)  
contains.

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# Color

**XYZ(43.0157, 74.4223,  
50.1280)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFAA
RGB	0, 255, 170
RGB Percent	0%, 100%, 67%
CMY	0.9999, 0.0000, 0.3333
CMYK	1.00, 0.00, 0.33, 0.00
HSL	160°, 100%, 50%
HSV	160°, 100%, 100%
XYZ	43.0157, 74.4223, 50.1280
YIQ	169.0650, -124.6950, -80.4950

# Conversions

## Conversions Part 2

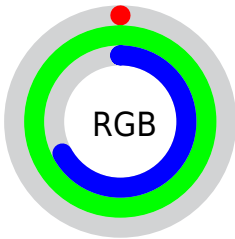
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 153, 255
Decimal	65450
CIELab	89.12, -69.23, 26.81
CIELCh	89, 74.238, 158.828
Yxy	74.4223, 0.2567, 0.4441
Android (android.graphics.Color)	4278255530 (0xFF00FFAA)
YUV	169.0650, 0.4610, -148.2700
Hunter-Lab	86.2684, -61.9648, 25.9362

# Details

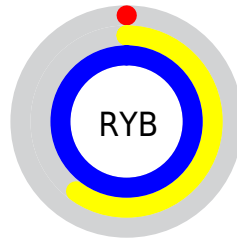
The XYZ color **43.0157, 74.4223, 50.1280** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **42.8811, 21.9169, 10.5703**, and the grayscale version is **37.7903, 39.7584, 43.2969**.

A 20% lighter version of the original color is **56.6899, 80.7240, 84.5449**, and **23.1771, 41.2169, 23.5637** is the 20% darker color. If you saturate the color by 10%, you get **43.0150, 74.4220, 50.1244**, and if you desaturate by 10%, it is **44.2606, 74.9681, 54.5224**.

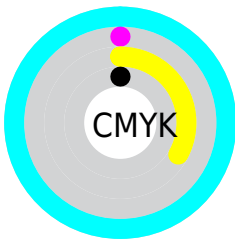
# Distribution



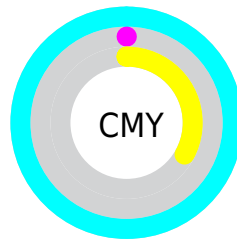
- Red (0%)
- Green (100%)
- Blue (67%)



- Red (0%)
- Yellow (60%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (33%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 43.0157, 74.4223, 50.1280 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 43.0157, 74.4223, 50.1280 by changing the saturation by 10% instead.





 43.0157, 74.4223,  
50.1280


 43.0157, 74.4223,  
50.1280


349.5967,  
475.9296, 403.9157


 30.0920, 55.1397,  
35.1432


 78.9901, 125.4943,  
91.7628


 20.0569, 39.5136,  
23.4888


 102.7716,  
158.0525, 119.2498


 12.5449, 27.1595,  
14.7462


 130.9029,  
195.8047, 151.7414

 7.1907, 17.6931,  
8.4968

 163.7497,  
239.1353, 189.6560

 3.6291, 10.7299,  
4.3221

 201.6770,  
288.4287, 233.4122

 1.4945, 5.8855,  
1.8037


245.0504,

 0.3221, 2.7756,


344.0693, 283.4285


0.4304


294.2352,  
406.4414, 340.1235


 0.0000, 1.0157,  
0.0000


 0.0000, 0.0000,  
0.0000


 43.0157, 74.4223,  
50.1280

 43.0157, 74.4223,  
50.1280

 43.0150, 74.4220,  
50.1244

 44.2606, 74.9681,  
54.5224

 46.0968, 75.8126,  
59.2197

 48.6903, 77.0413,  
64.2337

 52.1426, 78.7064,  
69.5738

■ 56.5391, 80.8519,  
75.2487

■ 61.9545, 83.5160,  
81.2663

■ 68.4557, 86.7333,  
87.6341

■ 76.1038, 90.5351,  
94.3593

■ 84.9552, 94.9504,  
101.4487

# Harmonies

## Analogous

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



51.0995, 74.4223, 25.5815



43.0157, 74.4223, 50.1280



41.6417, 74.4223, 97.2956

# Triad

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



43.0157, 74.4223, 50.1280



76.2074, 74.4223, 224.6264



101.4261, 74.4223, 33.2624

# Complementary

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



43.0157, 74.4223, 50.1280



42.8811, 21.9169, 10.5703

# 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.



110.9553, 74.4223, 66.6921



43.0157, 74.4223, 50.1280



94.8515, 74.4223, 185.9902

# Square

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



43.0157, 74.4223, 50.1280



58.9073, 74.4223, 213.8676



108.3635, 74.4223, 122.5789



84.0512, 74.4223, 19.1304



# Rectangle

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



43.0157, 74.4223, 50.1280



44.4394, 74.4223, 139.1533



108.3635, 74.4223, 122.5789



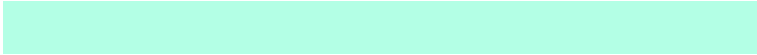
105.7771, 74.4223, 41.8787

# Sweetspot

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



43.0163, 74.4226, 50.1293



68.4475, 86.7292, 87.6265



39.9059, 73.6573, 12.1149



14.0348, 18.2585, 18.1718



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.



43.0163, 74.4226, 50.1293



43.0150, 74.4220, 50.1244



42.8000, 56.7194, 103.2999



18.2823, 20.3725, 21.7896



22.5485, 38.9160, 26.5712



2.2462, 3.8094, 2.8544



# Inverse Universe

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



42.8811, 21.9169, 10.5703



42.8800, 21.9160, 10.5660



41.9421, 22.6640, 2.1648



18.2591, 18.0870, 19.9817



22.4673, 11.4762, 5.8451

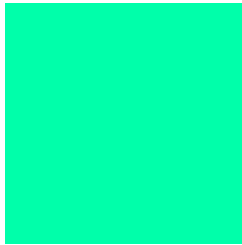


2.2358, 1.1367, 0.8233



# Previews

## White Background



This preview shows how the XYZ color 43.0157, 74.4223, 50.1280 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 43.0157, 74.4223, 50.1280 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

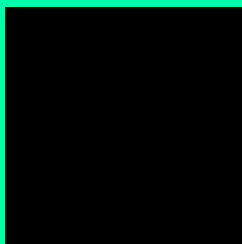
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

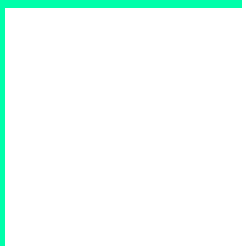
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 43.0157, 74.4223, 50.1280**

## **Background**



This preview shows how black text looks on a background with the XYZ color 43.0157, 74.4223, 50.1280.



This preview shows how white text looks on a background with the XYZ color 43.0157, 74.4223,



# Color Blindness Simulation

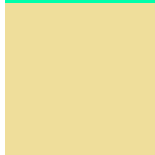
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



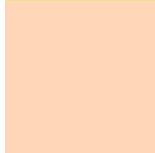
### Original Color

43.0157, 74.4223, 50.1280



### Protanopia

67.6343, 72.9598, 41.5283



### Deuteranopia

73.8338, 72.7720, 54.9547



## Tritanopia

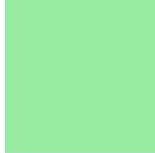
58.4322, 73.8585, 105.7842

# Trichromacy



## Original Color

43.0157, 74.4223, 50.1280



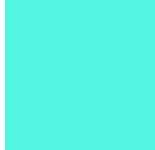
## Protanomaly

48.7169, 68.0591, 43.8268



## Deuteranomaly

50.9555, 66.9344, 52.3535



## Tritanomaly

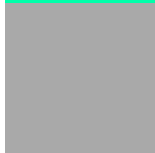
49.7631, 72.5715, 81.9059

# Monochromacy



## Original Color

43.0157, 74.4223, 50.1280



## Achromatopsia

37.7116, 39.6755, 43.2066



## Achromatomaly

34.0001, 47.3613, 44.8858

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 43.0157, 74.4223, 50.1280 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, 170)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 170)  
}
```

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, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 170) }
```

## Border

The CSS property to change the border of an element to XYZ 43.0157, 74.4223, 50.1280 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, 170) }
```



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

```
.border{ border-color:rgb(0, 255, 170) }
```

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, 170) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 170);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
170) }
```

# Background

The CSS property to change the background color of an element to XYZ 43.0157, 74.4223, 50.1280 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, 170) }
```

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

```
.background{ background-color: rgb(0, 255,  
170) }
```

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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