

# Converting Colors

XYZ(42.7702, 74.4525, 43.0337)

Have a look what the booklet for  
XYZ(42.7702, 74.4525, 43.0337)  
contains.

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# Color

**XYZ(42.8031, 74.4674,  
43.1280)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 2EFF9B                       |
| RGB         | 46, 255, 155                 |
| RGB Percent | 18%, 100%, 61%               |
| CMY         | 0.8196, 0.0000, 0.3921       |
| CMYK        | 0.82, 0.00, 0.39, 0.00       |
| HSL         | 151°, 100%, 59%              |
| HSV         | 151°, 82%, 100%              |
| XYZ         | 42.8031, 74.4674, 43.1280    |
| YIQ         | 181.1090, -92.4640, -75.4080 |

# Conversions

## Conversions Part 2

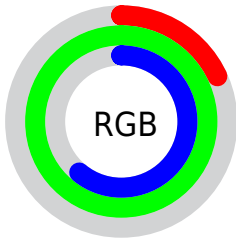
| <b>Format</b>                       | <b>Color</b>                     |
|-------------------------------------|----------------------------------|
| <b>RYB</b>                          | 46, 183, 255                     |
| Decimal                             | 3080091                          |
| CIELab                              | 89.14, -69.95, 34.40             |
| CIELCh                              | 89, 77.953, 153.813              |
| Yxy                                 | 74.4674, 0.2669,<br>0.4643       |
| Android<br>(android.graphics.Color) | 4281270171<br>(0xFF2EFF9B)       |
| YUV                                 | 181.1090, -12.8717,<br>-118.4906 |
| Hunter-Lab                          | 86.2945, -62.4772,<br>30.7744    |

# Details

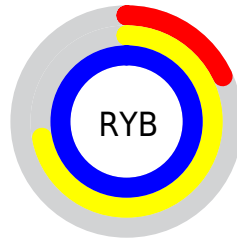
The XYZ color **42.8031, 74.4674, 43.1280** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle washed spring green. A complement of this color would be **47.4059, 25.2900, 29.5786**, and the grayscale version is **44.0840, 46.3798, 50.5076**.

A 20% lighter version of the original color is **56.2949, 80.7623, 73.5944**, and **22.4144, 40.9118, 19.5474** is the 20% darker color. If you saturate the color by 10%, you get **41.0018, 73.6513, 37.9630**, and if you desaturate by 10%, it is **45.3898, 75.6764, 48.8728**.

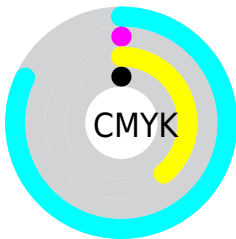
# Distribution



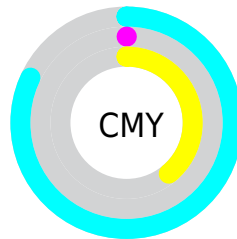
- Red (18%)
- Green (100%)
- Blue (61%)



- Red (18%)
- Yellow (72%)
- Blue (100%)



- Cyan (82%)
- Magenta (0%)
- Yellow (39%)
- Black (0%)




- Cyan (82%)
- Magenta (0%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.8031, 74.4674, 43.1280 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 42.8031, 74.4674, 43.1280 by changing the saturation by 10% instead.





 42.8031, 74.4674,  
43.1280


 42.8031, 74.4674,  
43.1280


348.7366,  
476.0850, 375.0746


 29.9245, 55.1767,  
29.6534


 78.6712, 125.5582,  
81.1924


 19.9291, 39.5432,  
19.3259


 102.3914,  
158.1270, 106.6193

 12.4515, 27.1826,  
11.7268


 130.4563,  
195.8906, 136.8674

 7.1263, 17.7104,  
6.4376

 163.2310,  
239.2335, 172.3552

 3.5883, 10.7423,  
3.0399

201.0811,  
288.5399, 213.5013

 1.4719, 5.8938,  
1.1151

244.3718,

 0.3066, 2.7806,

344.1944, 260.7242

0.0000

293.4685,  
406.5813, 314.4424

■ 0.0000, 1.0183,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.8031, 74.4674,  
43.1280

■ 42.8031, 74.4674,  
43.1280

■ 41.0018, 73.6513,  
37.9630

■ 45.3898, 75.6764,  
48.8728

■ 39.9929, 73.2132,  
34.2103

■ 48.8682, 77.3328,  
55.2139

■ 53.3288, 79.4830,  
62.1715

■ 58.8499, 82.1669,  
69.7634

65.5015, 85.4204,  
78.0065

73.3476, 89.2761,  
86.9170

82.4469, 93.7640,  
96.5105

92.8544, 98.9123,  
106.8018

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



52.3378, 74.4674, 21.5274



42.8031, 74.4674, 43.1280



40.2333, 74.4674, 88.2394

# Triad

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



42.8031, 74.4674, 43.1280



73.2358, 74.4674, 236.6352



105.6679, 74.4674, 35.6921

# Complementary

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



42.8031, 74.4674, 43.1280



47.4059, 25.2900, 29.5786

# 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.



113.8335, 74.4674, 74.3232



42.8031, 74.4674, 43.1280



93.1112, 74.4674, 202.7377

# Square

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



42.8031, 74.4674, 43.1280



55.8538, 74.4674, 215.8244



108.8725, 74.4674, 136.5557



88.1511, 74.4674, 18.7798



# Rectangle

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



42.8031, 74.4674, 43.1280



42.3475, 74.4674, 131.0718



108.8725, 74.4674, 136.5557



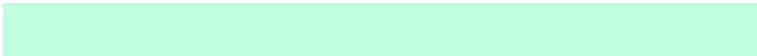
109.7267, 74.4674, 45.7578

# Sweetspot

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



42.8036, 74.4676, 43.1293



70.8309, 88.0377, 84.1350



48.2895, 77.9222, 15.0808



14.5690, 18.5529, 17.3373



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.



42.8036, 74.4676, 43.1293



40.2274, 73.3143, 35.1116



53.8359, 77.1187, 106.6557



18.1673, 20.3264, 21.1838



20.9732, 38.2859, 18.2758



2.0973, 3.7499, 2.0703



# Inverse Universe

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



47.4059, 25.2900, 29.5786



44.9760, 22.8430, 21.3303



42.8522, 23.6951, 4.9005



18.3713, 18.1319, 20.5727



23.4591, 11.8729, 11.0680

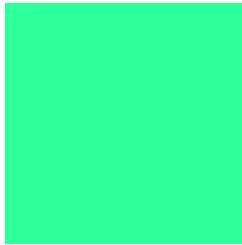


2.3389, 1.1780, 1.3663



# Previews

## White Background



This preview shows how the XYZ color 42.8031, 74.4674, 43.1280 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 42.8031, 74.4674, 43.1280 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

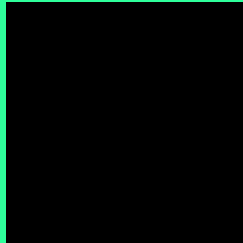
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

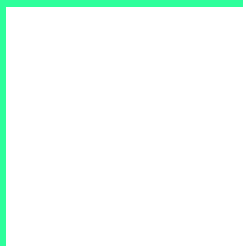
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.8031, 74.4674, 43.1280**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.8031, 74.4674, 43.1280.



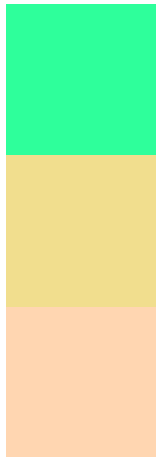
This preview shows how white text looks on a background with the XYZ color 42.8031, 74.4674,



# 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

42.8031, 74.4674, 43.1280

### Protanopia

67.2794, 72.8963, 36.1156

### Deuteranopia

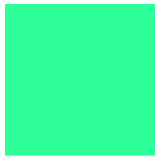
73.2224, 72.5275, 51.7349



## **Tritanopia**

58.7480, 74.0213, 105.7989

# Trichromacy



## Original Color

42.8031, 74.4674, 43.1280



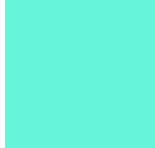
## Protanomaly

51.2668, 69.4983, 38.3162



## Deuteranomaly

53.7711, 68.4869, 47.9214



## Tritanomaly

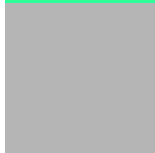
50.9181, 73.2441, 78.4717

# Monochromacy



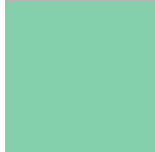
## Original Color

42.8031, 74.4674, 43.1280



## Achromatopsia

43.9204, 46.2077, 50.3202



## Achromatomaly

39.5180, 52.9958, 47.1761

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.8031, 74.4674, 43.1280 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(46, 255, 155)` looks like.

```
.text, #text, p{  
    color:rgb(46, 255, 155)  
}
```

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(46, 255, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 255, 155) }
```

## Border

The CSS property to change the border of an element to XYZ 42.8031, 74.4674, 43.1280 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(46, 255, 155) }
```



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

```
.border{ border-color:rgb(46, 255, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 255, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 255, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 255, 155);  
box-shadow:4px 4px 4px 4px rgb(46, 255,  
155) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.8031, 74.4674, 43.1280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 255, 155) }
```

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

```
.background{ background-color: rgb(46, 255,  
155) }
```

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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