

Converting Colors

XYZ(51.8812, 100.0000,
53.5823)

Have a look what the booklet for
XYZ(51.8812, 100.0000, 53.5823)
contains.

XYZ(42.8279, 74.3472, 49.1390)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(42.8279, 74.3472,
49.1390)**

Conversions

Conversions Part 1

Format	Color
Hex	00FFA8
RGB	0, 255, 168
RGB Percent	0%, 100%, 66%
CMY	0.9999, 0.0000, 0.3412
CMYK	1.00, 0.00, 0.34, 0.00
HSL	160°, 100%, 50%
HSV	160°, 100%, 100%
XYZ	42.8279, 74.3472, 49.1390
YIQ	168.8370, -124.0530, -81.1170

Conversions

Conversions Part 2

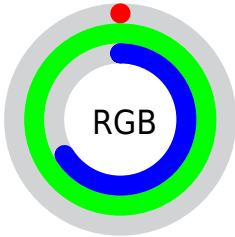
Format	Color
RYB	0, 154, 255
Decimal	65448
CIELab	89.09, -69.63, 27.77
CIELCh	89, 74.969, 158.255
Yxy	74.3472, 0.2575, 0.4470
Android (android.graphics.Color)	4278255528 (0xFF00FFA8)
YUV	168.8370, -0.4126, -148.0700
Hunter-Lab	86.2248, -62.2324, 26.5684

Details

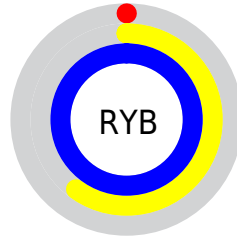
The XYZ color **42.8279, 74.3472, 49.1390** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **42.9617, 21.9492, 10.9947**, and the grayscale version is **37.6814, 39.6437, 43.1720**.

A 20% lighter version of the original color is **56.2848, 80.5467, 83.1016**, and **23.0608, 41.1703, 22.9509** is the 20% darker color. If you saturate the color by 10%, you get **42.8272, 74.3469, 49.1354**, and if you desaturate by 10%, it is **44.0803, 74.8960, 53.5732**.

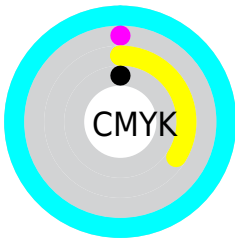
Distribution



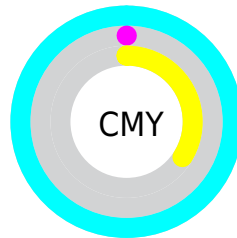
- Red (0%)
- Green (100%)
- Blue (66%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (34%)
- Black (0%)





- Cyan (100%)
- Magenta (0%)
- Yellow (34%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 42.8279, 74.3472, 49.1390 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 42.8279, 74.3472, 49.1390 by changing the saturation by 10% instead.


 42.8279, 74.3472,
49.1390


 42.8279, 74.3472,
49.1390


348.8371,
475.6708, 399.9275


 29.9440, 55.0783,
34.3634

 78.7084, 125.3879,
90.2810


 19.9440, 39.4644,
22.8933


 102.4358,
157.9284, 117.4844


 12.4624, 27.1212,
14.3102


 130.5084,
195.6615, 149.6676

 7.1338, 17.6643,
8.1955

 163.2916,
238.9717, 187.2489

 3.5930, 10.7092,
4.1307

 201.1506,
288.2434, 230.6471

 1.4746, 5.8717,
1.6973

244.4510,

 0.3084, 2.7672,

343.8608, 280.2805

0.3589

293.5580,
406.2085, 336.5678

■ 0.0000, 1.0114,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 42.8279, 74.3472,
49.1390

■ 42.8279, 74.3472,
49.1390

■ 42.8272, 74.3469,
49.1354

■ 44.0803, 74.8960,
53.5732

■ 45.9264, 75.7444,
58.3225

■ 48.5321, 76.9780,
63.4010

■ 51.9991, 78.6490,
68.8186

■ 56.4128, 80.8013,
74.5842

■ 61.8480, 83.4734,
80.7062

■ 68.3716, 86.6996,
87.1923

■ 76.0448, 90.5115,
94.0500

■ 84.9241, 94.9379,
101.2866

Harmonies

Analogous

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



51.0904, 74.3472, 24.9053



42.8279, 74.3472, 49.1390



41.3183, 74.3472, 96.2537

Triad

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



42.8279, 74.3472, 49.1390



75.8233, 74.3472, 226.6764



101.9533, 74.3472, 33.3123

Complementary

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



42.8279, 74.3472, 49.1390



42.9617, 21.9492, 10.9947

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.



111.3862, 74.3472, 67.3635



42.8279, 74.3472, 49.1390



94.6918, 74.3472, 188.2752

Square

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



42.8279, 74.3472, 49.1390



58.4468, 74.3472, 214.7552



108.5220, 74.3472, 124.1773



84.4769, 74.3472, 18.8916

Rectangle

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



42.8279, 74.3472, 49.1390



44.0453, 74.3472, 138.4482



108.5220, 74.3472, 124.1773



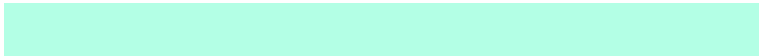
106.2958, 74.3472, 42.0908

Sweetspot

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



42.8285, 74.3474, 49.1403



68.3636, 86.6957, 87.1848



39.9058, 73.6572, 12.1148



14.0148, 18.2504, 18.0662



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.



42.8285, 74.3474, 49.1403



42.8272, 74.3469, 49.1354



42.7999, 56.7193, 103.2999



18.2760, 20.3699, 21.7566



22.4509, 38.8770, 26.0576



2.2372, 3.8058, 2.8070

Inverse Universe

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



42.9617, 21.9492, 10.9947



42.9606, 21.9482, 10.9905



41.9421, 22.6639, 2.1648



18.2651, 18.0894, 20.0133



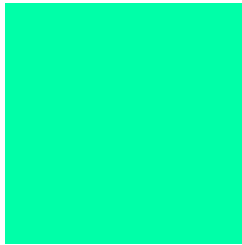
22.5103, 11.4934, 6.0719



2.2406, 1.1386, 0.8482

Previews

White Background



This preview shows how the XYZ color 42.8279, 74.3472, 49.1390 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 42.8279, 74.3472, 49.1390 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

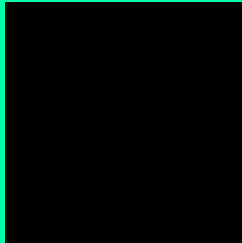
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

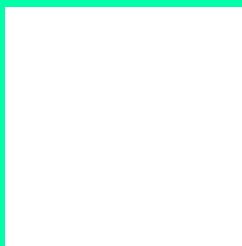
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 42.8279, 74.3472, 49.1390

Background



This preview shows how black text looks on a background with the XYZ color 42.8279, 74.3472, 49.1390.



This preview shows how white text looks on a background with the XYZ color 42.8279, 74.3472,

Color Blindness Simulation

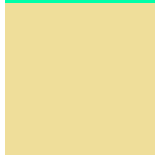
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

42.8279, 74.3472, 49.1390



Protanopia

67.5506, 72.9264, 41.0877



Deuteranopia

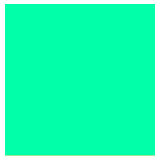
73.7301, 72.7305, 54.4084



Tritanopia

58.2766, 73.7783, 105.7769

Trichromacy



Original Color

42.8279, 74.3472, 49.1390



Protanomaly

48.6297, 68.0242, 43.3678



Deuteranomaly

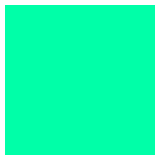
50.8554, 66.8943, 51.8265



Tritanomaly

49.5390, 72.4715, 81.1895

Monochromacy



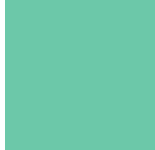
Original Color

42.8279, 74.3472, 49.1390



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 42.8279, 74.3472, 49.1390 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, 168)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 168)  
}
```

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, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 168) }
```

Border

The CSS property to change the border of an element to XYZ 42.8279, 74.3472, 49.1390 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, 168) }
```


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

```
.border{ border-color:rgb(0, 255, 168) }
```

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, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 168);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 42.8279, 74.3472, 49.1390 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, 168) }
```

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

```
.background{ background-color: rgb(0, 255,  
168) }
```

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