

# Converting Colors

XYZ(38.7135, 77.4356, 50.3610)

Have a look what the booklet for  
XYZ(38.7135, 77.4356, 50.3610)  
contains.

<b>XYZ(42.9214, 74.3846, 49.6316)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(42.9214, 74.3846,  
49.6316)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFA9
RGB	0, 255, 169
RGB Percent	0%, 100%, 66%
CMY	0.9999, 0.0000, 0.3372
CMYK	1.00, 0.00, 0.34, 0.00
HSL	160°, 100%, 50%
HSV	160°, 100%, 100%
XYZ	42.9214, 74.3846, 49.6316
YIQ	168.9510, -124.3740, -80.8060

# Conversions

## Conversions Part 2

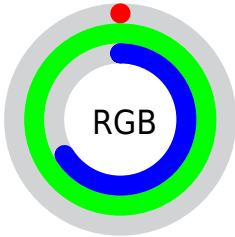
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 153, 255
Decimal	65449
CIELab	89.10, -69.43, 27.29
CIELCh	89, 74.603, 158.540
Yxy	74.3846, 0.2571, 0.4456
Android (android.graphics.Color)	4278255529 (0xFF00FFA9)
YUV	168.9510, 0.0242, -148.1700
Hunter-Lab	86.2465, -62.0992, 26.2534

# Details

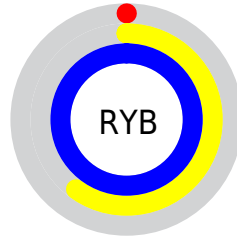
The XYZ color **42.9214, 74.3846, 49.6316** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **42.9209, 21.9328, 10.7802**, and the grayscale version is **37.7353, 39.7004, 43.2338**.

A 20% lighter version of the original color is **56.5531, 80.6692, 83.8242**, and **23.1186, 41.1935, 23.2557** is the 20% darker color. If you saturate the color by 10%, you get **42.9209, 74.3843, 49.6287**, and if you desaturate by 10%, it is **44.1701, 74.9318, 54.0462**.

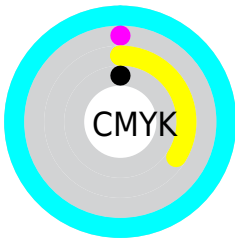
# Distribution



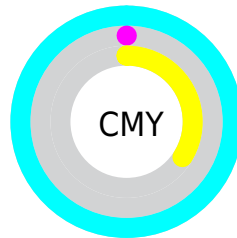
- Red (0%)
- Green (100%)
- Blue (66%)



- 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 42.9214, 74.3846, 49.6316 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 42.9214, 74.3846, 49.6316 by changing the saturation by 10% instead.




 42.9214, 74.3846,  
49.6316


 42.9214, 74.3846,  
49.6316


349.2154,  
475.7997, 401.9172

 30.0177, 55.1089,  
34.7516


 78.8487, 125.4409,  
91.0195


 20.0002, 39.4889,  
23.1896


 102.6030,  
157.9902, 118.3645


 12.5034, 27.1403,  
14.5270

 130.7049,  
195.7328, 150.7016

 7.1621, 17.6786,  
8.3452

 163.5197,  
239.0532, 188.4493

 3.6109, 10.7195,  
4.2257

 201.4128,  
288.3357, 232.0262

 1.4845, 5.8785,  
1.7499

244.7496,

 0.3152, 2.7714,

343.9646, 281.8507

0.3946

293.8953,  
406.3245, 338.3416

■ 0.0000, 1.0136,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.9214, 74.3846,  
49.6316

■ 42.9214, 74.3846,  
49.6316

■ 42.9209, 74.3843,  
49.6287

■ 44.1701, 74.9318,  
54.0462

■ 46.0111, 75.7783,  
58.7697

■ 48.6106, 77.0094,  
63.8161

■ 52.0702, 78.6774,  
69.1951

■ 56.4752, 80.8262,  
74.9155

■ 61.9003, 83.4942,  
80.9853

■ 68.4126, 86.7159,  
87.4123

■ 76.0731, 90.5227,  
94.2037

■ 84.9382, 94.9434,  
101.3666

# Harmonies

## Analogous

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



51.0946, 74.3846, 25.2415



42.9214, 74.3846, 49.6316



41.4795, 74.3846, 96.7739

# Triad

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



42.9214, 74.3846, 49.6316



76.0151, 74.3846, 225.6514



101.6896, 74.3846, 33.2869

# Complementary

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



42.9214, 74.3846, 49.6316



42.9209, 21.9328, 10.7802

# 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.



111.1709, 74.3846, 67.0269



42.9214, 74.3846, 49.6316



94.7718, 74.3846, 187.1312

# Square

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



42.9214, 74.3846, 49.6316



58.6765, 74.3846, 214.3125



108.4430, 74.3846, 123.3764



84.2638, 74.3846, 19.0103



# Rectangle

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



42.9214, 74.3846, 49.6316



44.2418, 74.3846, 138.8011



108.4430, 74.3846, 123.3764



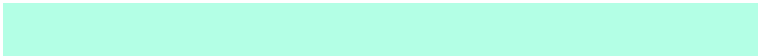
106.0364, 74.3846, 41.9842

# Sweetspot

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



42.9220, 74.3848, 49.6329



68.4056, 86.7125, 87.4058



39.9056, 73.6571, 12.1147



14.0248, 18.2545, 18.1190



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.



42.9220, 74.3848, 49.6329



42.9209, 74.3843, 49.6287



42.7998, 56.7190, 103.2998



18.2792, 20.3712, 21.7731



22.4996, 38.8964, 26.3137



2.2417, 3.8076, 2.8307



# Inverse Universe

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



42.9209, 21.9328, 10.7802



42.9200, 21.9320, 10.7765



41.9420, 22.6637, 2.1647



18.2621, 18.0882, 19.9975



22.4886, 11.4847, 5.9576

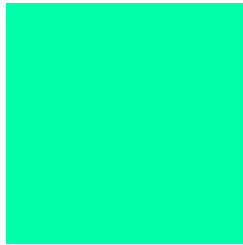


2.2382, 1.1376, 0.8357



# Previews

## White Background



This preview shows how the XYZ color 42.9214, 74.3846, 49.6316 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 42.9214, 74.3846, 49.6316 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

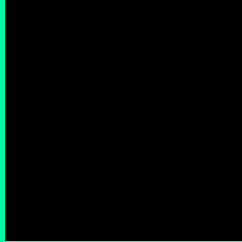
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.9214, 74.3846, 49.6316**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.9214, 74.3846, 49.6316.



This preview shows how white text looks on a background with the XYZ color 42.9214, 74.3846,



# Color Blindness Simulation

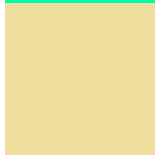
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



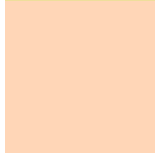
### Original Color

42.9214, 74.3846, 49.6316



### Protanopia

67.6343, 72.9598, 41.5283



### Deuteranopia

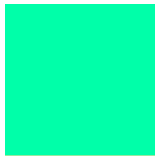
73.8338, 72.7720, 54.9547



## **Tritanopia**

58.2766, 73.7783, 105.7769

# Trichromacy



## Original Color

42.9214, 74.3846, 49.6316



## Protanomaly

48.7169, 68.0591, 43.8268



## Deuteranomaly

50.9555, 66.9344, 52.3535



## Tritanomaly

49.6742, 72.5256, 81.9018

# Monochromacy



## Original Color

42.9214, 74.3846, 49.6316



## 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 42.9214, 74.3846, 49.6316 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, 169)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 169)  
}
```

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, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 169) }
```

## Border

The CSS property to change the border of an element to XYZ 42.9214, 74.3846, 49.6316 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, 169) }
```



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

```
.border{ border-color:rgb(0, 255, 169) }
```

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, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 169);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
169) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.9214, 74.3846, 49.6316 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, 169) }
```

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

```
.background{ background-color: rgb(0, 255,  
169) }
```

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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