

# Converting Colors

$Y_{xy}(71.2000, 0.2554, 0.4394)$

Have a look what the booklet for  
Yxy(71.2000, 0.2554, 0.4394)  
contains.

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# Color

**Yxy(71.2735, 0.2553, 0.4391)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 00FAAA                        |
| RGB         | 0, 250, 170                   |
| RGB Percent | 0%, 98%, 67%                  |
| CMY         | 1.0000, 0.0196, 0.3333        |
| CMYK        | 1.00, 0.00, 0.32, 0.02        |
| HSL         | 161°, 100%, 49%               |
| HSV         | 161°, 100%, 98%               |
| XYZ         | 41.4396, 71.2735, 49.6041     |
| YIQ         | 166.1300, -123.3200, -77.8800 |

# Conversions

## Conversions Part 2

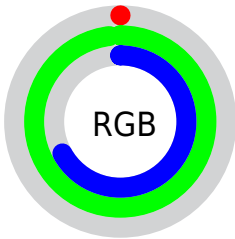
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>RYB</b>                          | 0, 149, 250                    |
| Decimal                             | 64170                          |
| CIELab                              | 87.62, -67.49, 24.76           |
| CIELCh                              | 88, 71.890, 159.854            |
| Yxy                                 | 71.2735, 0.2553,<br>0.4391     |
| Android<br>(android.graphics.Color) | 4278254250<br>(0xFF00FAAA)     |
| YUV                                 | 166.1300, 1.9079,<br>-145.6960 |
| Hunter-Lab                          | 84.4236, -60.1241,<br>24.2600  |

# Details

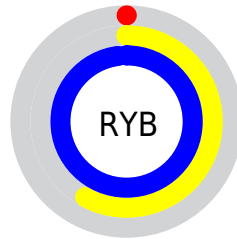
The Yxy color **71.2735, 0.2553, 0.4391** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **20.9043, 0.5737, 0.2934**, and the grayscale version is **38.2364, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.5884, 0.2547, 0.3638**, and **38.9836, 0.2619, 0.4628** is the 20% darker color. If you saturate the color by 10%, you get **71.2774, 0.2553, 0.4391**, and if you desaturate by 10%, it is **71.7962, 0.2535, 0.4270**.

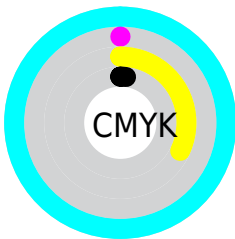
# Distribution



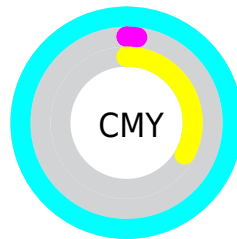
- Red (0%)
- Green (98%)
- Blue (67%)



- Red (0%)
- Yellow (58%)
- Blue (98%)



- Cyan (100%)
- Magenta (0%)
- Yellow (32%)
- Black (2%)




- Cyan (100%)
- Magenta (2%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.2735, 0.2553, 0.4391 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 Yxy color 71.2735, 0.2553, 0.4391 by changing the saturation by 10% instead.




 71.2735, 0.2553,  
0.4391

 71.2735, 0.2553,  
0.4391


465.0090, 0.2836,  
0.3843


 52.5654, 0.2484,  
0.4526

 121.0231, 0.2655,  
0.4193


 37.4560, 0.2397,  
0.4697


 152.8334, 0.2693,  
0.4118


 25.5607, 0.2283,  
0.4922


 189.7798, 0.2726,  
0.4055

 16.4953, 0.2129,  
0.5228

 232.2469, 0.2754,  
0.4001

 9.8753, 0.1911,  
0.5667

 280.6190, 0.2779,  
0.3953

 5.3164, 0.1586,  
0.6333

335.2804, 0.2800,

 2.4341, 0.0680,

0.3912

0.8026

396.6156, 0.2819,  
0.3876

■ 0.8433, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 71.2735, 0.2553,  
0.4391

■ 71.2735, 0.2553,  
0.4391


■ 71.2774, 0.2553,  
0.4391


■ 71.7962, 0.2535,  
0.4270


■ 72.5985, 0.2534,  
0.4146


■ 73.7662, 0.2553,  
0.4022


■ 75.3489, 0.2593,  
0.3899

 77.3886, 0.2651,  
0.3780

 79.9216, 0.2726,  
0.3667

 82.9807, 0.2814,  
0.3560

 86.5958, 0.2912,  
0.3461

 90.7945, 0.3018,  
0.3371

# Harmonies

## Analogous

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



71.2735, 0.3353, 0.4890



71.2735, 0.2553, 0.4391



71.2735, 0.1955, 0.3453

# Triad

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



71.2735, 0.2553, 0.4391



71.2735, 0.2064, 0.2001



71.2735, 0.4827, 0.3580

# Complementary

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



71.2735, 0.2553, 0.4391



20.9043, 0.5737, 0.2934

# 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.



71.2735, 0.4403, 0.2979



71.2735, 0.2553, 0.4391



71.2735, 0.2705, 0.2120

# Square

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



71.2735, 0.2553, 0.4391



71.2735, 0.1723, 0.2151



71.2735, 0.3574, 0.2465



71.2735, 0.4696, 0.4202



# Rectangle

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



71.2735, 0.2553, 0.4391



71.2735, 0.1735, 0.2867



71.2735, 0.3574, 0.2465



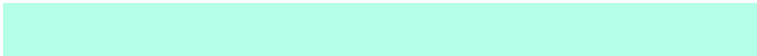
71.2735, 0.4747, 0.3374

# Sweetspot

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



71.2774, 0.2553, 0.4391



86.7867, 0.2814, 0.3560



70.2293, 0.3160, 0.5873



18.2722, 0.2775, 0.3604



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



71.2774, 0.2553, 0.4391



74.5526, 0.2553, 0.4392



52.1794, 0.2094, 0.2739



19.5085, 0.3023, 0.3367



37.8331, 0.2548, 0.4371



3.5233, 0.2507, 0.4225



# Inverse Universe

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



20.9043, 0.5737, 0.2934



21.8631, 0.5739, 0.2935



21.9576, 0.6257, 0.3414



17.3168, 0.3243, 0.3214



11.1108, 0.5694, 0.2910



1.0475, 0.5359, 0.2726



# Previews

## White Background



This preview shows how the Yxy color 71.2735, 0.2553, 0.4391 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

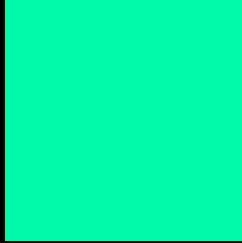
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.2735, 0.2553, 0.4391 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

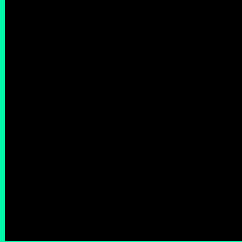
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 71.2735, 0.2553, 0.4391**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.2735, 0.2553, 0.4391.



This preview shows how white text looks on a background with the Yxy color 71.2735, 0.2553, 0.4391.

# 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

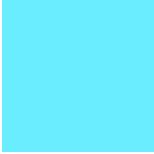
71.2735, 0.2553, 0.4391

### Protanopia

69.5184, 0.3685, 0.3956

### Deuteranopia

69.5510, 0.3684, 0.3604



## **Tritanopia**

70.8525, 0.2354, 0.3073

# Trichromacy



## Original Color

71.2735, 0.2553, 0.4391



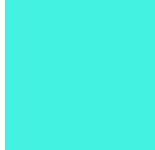
## Protanomaly

65.0014, 0.3010, 0.4176



## Deuteranomaly

63.9195, 0.2992, 0.3904



## Tritanomaly

70.0794, 0.2386, 0.3519

# Monochromacy



## Original Color

71.2735, 0.2553, 0.4391



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

45.7867, 0.2688, 0.3743

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.2735, 0.2553, 0.4391 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, 250, 170)` looks like.

```
.text, #text, p{  
    color:rgb(0, 250, 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, 250, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 250, 170) }
```

## Border

The CSS property to change the border of an element to Yxy 71.2735, 0.2553, 0.4391 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, 250, 170) }
```

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

```
.border{ border-color:rgb(0, 250, 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, 250, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 250, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 250, 170);  
box-shadow:4px 4px 4px 4px rgb(0, 250,  
170) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.2735, 0.2553, 0.4391 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 250, 170) }
```

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

```
.background{ background-color: rgb(0, 250,  
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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