

# Converting Colors

$Y_{xy}(79.0288, 0.2404, 0.3539)$

Have a look what the booklet for  
Yxy(79.0288, 0.2404, 0.3539)  
contains.

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# Color

**Yxy(78.9970, 0.2405, 0.3545)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4CFFEA
RGB	76, 255, 234
RGB Percent	30%, 100%, 92%
CMY	0.7017, 0.0000, 0.0824
CMYK	0.70, 0.00, 0.08, 0.00
HSL	173°, 100%, 65%
HSV	173°, 70%, 100%
XYZ	53.5932, 78.9970, 90.2505
YIQ	199.0850, -99.9430, -44.4790

# Conversions

## Conversions Part 2

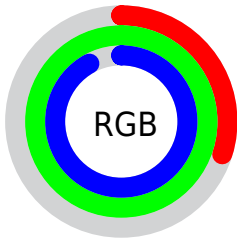
Format	Color
<b>RYB</b>	76, 171, 255
Decimal	5046250
CIELab	91.23, -49.14, -2.99
CIELCh	91, 49.228, 183.478
Yxy	78.9970, 0.2405, 0.3545
Android (android.graphics.Color)	4283236330 (0xFF4CFFEA)
YUV	199.0850, 17.2131, -107.9455
Hunter-Lab	88.8803, -47.9082, 2.0122

# Details

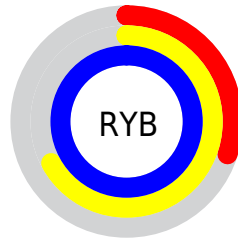
The Yxy color **78.9970, 0.2405, 0.3545** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **27.3035, 0.5258, 0.3121**, and the grayscale version is **57.1186, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.9430, 0.2549, 0.3288**, and **43.1469, 0.2331, 0.3592** is the 20% darker color. If you saturate the color by 10%, you get **77.9815, 0.2370, 0.3586**, and if you desaturate by 10%, it is **80.4329, 0.2460, 0.3504**.

# Distribution



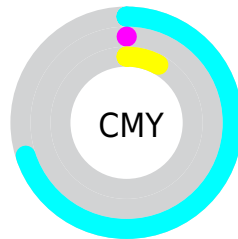
- Red (30%)
- Green (100%)
- Blue (92%)



- Red (30%)
- Yellow (67%)
- Blue (100%)



- Cyan (70%)
- Magenta (0%)
- Yellow (8%)
- Black (0%)




- Cyan (70%)
- Magenta (0%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.9970, 0.2405, 0.3545 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 78.9970, 0.2405, 0.3545 by changing the saturation by 10% instead.




 78.9970, 0.2405,  
0.3545

 78.9970, 0.2405,  
0.3545


491.5462, 0.2729,  
0.3433

 58.8933, 0.2334,  
0.3569


 131.9546, 0.2515,  
0.3507


 42.5273, 0.2247,  
0.3598


 165.5774, 0.2559,  
0.3492

 29.5144, 0.2139,  
0.3633


 204.4753, 0.2597,  
0.3479

 19.4703, 0.2002,  
0.3677

 249.0328, 0.2630,  
0.3468

 12.0106, 0.1822,  
0.3733

299.6343, 0.2659,  
0.3458

 6.7509, 0.1579,  
0.3805


356.6640, 0.2685,


 3.3068, 0.1237,


0.3449


0.3898


420.5065, 0.2708,  
0.3441


 1.2939, 0.0000,  
0.4329


 0.1365, 0.0000,  
0.2763


 78.9970, 0.2405,  
0.3545

 78.9970, 0.2405,  
0.3545


 77.9815, 0.2370,  
0.3586

 80.4329, 0.2460,  
0.3504


 77.3286, 0.2353,  
0.3628


 82.3272, 0.2535,  
0.3463

 76.9588, 0.2352,  
0.3668

 84.7198, 0.2627,  
0.3424

 87.6450, 0.2735,  
0.3387

 91.1339, 0.2856,  
0.3352

 95.2152, 0.2987,  
0.3320

99.9156, 0.3125,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



78.9970, 0.2874, 0.4084



78.9970, 0.2405, 0.3545



78.9970, 0.2139, 0.2975

# Triad

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



78.9970, 0.2405, 0.3545



78.9970, 0.2741, 0.2430



78.9970, 0.4245, 0.3885

# Complementary

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



78.9970, 0.2405, 0.3545



27.3035, 0.5258, 0.3121

# 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.



78.9970, 0.4226, 0.3445



78.9970, 0.2405, 0.3545



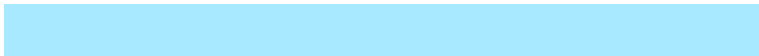
78.9970, 0.3309, 0.2650

# Square

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



78.9970, 0.2405, 0.3545



78.9970, 0.2320, 0.2394



78.9970, 0.3872, 0.3009



78.9970, 0.3945, 0.4232



# Rectangle

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



78.9970, 0.2405, 0.3545



78.9970, 0.2094, 0.2682



78.9970, 0.3872, 0.3009



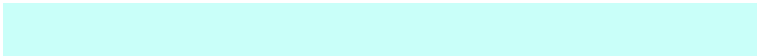
78.9970, 0.4278, 0.3743

# Sweetspot

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



78.9989, 0.2405, 0.3545



90.8214, 0.2845, 0.3355



74.7481, 0.3109, 0.5492



19.2238, 0.2811, 0.3365



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.



78.9989, 0.2405, 0.3545



77.6915, 0.2361, 0.3602



45.3239, 0.2115, 0.2438



20.4426, 0.2996, 0.3318



40.2272, 0.2350, 0.3661



3.9267, 0.2337, 0.3614



# Inverse Universe

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



27.3035, 0.5258, 0.3121



23.2250, 0.5844, 0.3156



41.0333, 0.4958, 0.3900



18.0218, 0.3276, 0.3262



11.1685, 0.6260, 0.3222

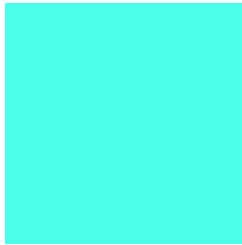


1.0980, 0.6023, 0.3092



# Previews

## White Background



This preview shows how the Yxy color 78.9970, 0.2405, 0.3545 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

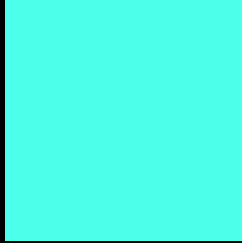
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.9970, 0.2405, 0.3545 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

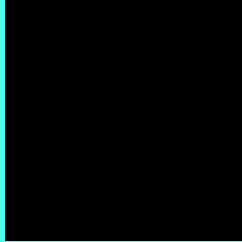
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 78.9970, 0.2405, 0.3545**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.9970, 0.2405, 0.3545.

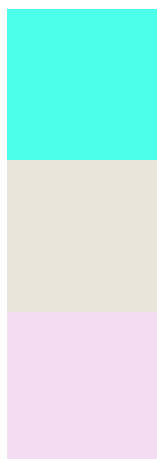


This preview shows how white text looks on a background with the Yxy color 78.9970, 0.2405, 0.3545.

# 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

78.9970, 0.2405, 0.3545

### Protanopia

77.4926, 0.3235, 0.3385

### Deuteranopia

77.2969, 0.3158, 0.3088



## Tritanopia

78.4056, 0.2594, 0.3143

# Trichromacy



## Original Color

78.9970, 0.2405, 0.3545



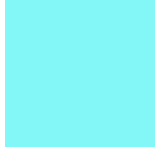
## Protanomaly

75.2973, 0.2826, 0.3439



## Deuteranomaly

74.5182, 0.2781, 0.3233



## Tritanomaly

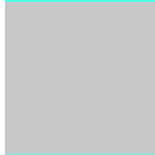
78.0622, 0.2502, 0.3288

# Monochromacy



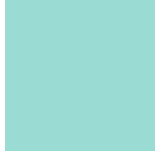
## Original Color

78.9970, 0.2405, 0.3545



## Achromatopsia

57.1125, 0.3127, 0.3290



## Achromatomaly

62.2865, 0.2740, 0.3376

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.9970, 0.2405, 0.3545 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(76, 255, 234)` looks like.

```
.text, #text, p{  
    color:rgb(76, 255, 234)  
}
```

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(76, 255, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 255, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 78.9970, 0.2405, 0.3545 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(76, 255, 234) }
```

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

```
.border{ border-color:rgb(76, 255, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 255, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 255, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 255, 234);  
box-shadow:4px 4px 4px 4px rgb(76, 255,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.9970, 0.2405, 0.3545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 255, 234) }
```

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

```
.background{ background-color: rgb(76, 255,  
234) }
```

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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