

# Converting Colors

$Y_{xy}(78.8809, 0.2415, 0.3574)$

Have a look what the booklet for  
Yxy(78.8809, 0.2415, 0.3574)  
contains.

<b>Yxy(78.9240, 0.2415, 0.3570)</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> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(78.9240, 0.2415, 0.3570)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DFFE8
RGB	77, 255, 232
RGB Percent	30%, 100%, 91%
CMY	0.6977, 0.0000, 0.0902
CMYK	0.70, 0.00, 0.09, 0.00
HSL	172°, 100%, 65%
HSV	172°, 70%, 100%
XYZ	53.3898, 78.9240, 88.7619
YIQ	199.1560, -98.7050, -44.8890

# Conversions

## Conversions Part 2

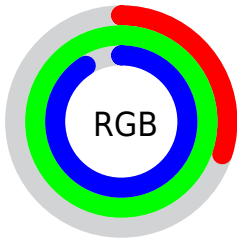
<b>Format</b>	<b>Color</b>
<b>RYB</b>	77, 172, 255
Decimal	5111784
CIELab	91.20, -49.52, -2.00
CIELCh	91, 49.559, 182.319
Yxy	78.9240, 0.2415, 0.3570
Android (android.graphics.Color)	4283301864 (0xFF4DFFE8)
YUV	199.1560, 16.1921, -107.1308
Hunter-Lab	88.8392, -48.1953, 2.9490

# Details

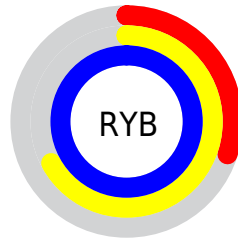
The Yxy color **78.9240, 0.2415, 0.3570** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **27.5000, 0.5212, 0.3102**, and the grayscale version is **57.1721, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.0359, 0.2553, 0.3288**, and **43.0671, 0.2340, 0.3625** is the 20% darker color. If you saturate the color by 10%, you get **77.8794, 0.2380, 0.3616**, and if you desaturate by 10%, it is **80.3938, 0.2470, 0.3524**.

# Distribution



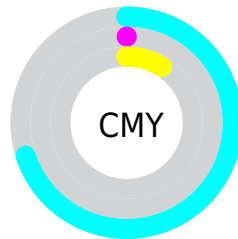
- Red (30%)
- Green (100%)
- Blue (91%)



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



- Cyan (70%)
- Magenta (0%)
- Yellow (9%)
- Black (0%)




- Cyan (70%)
- Magenta (0%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.9240, 0.2415, 0.3570 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 78.9240, 0.2415, 0.3570 by changing the saturation by 10% instead.





 78.9240, 0.2415,  
0.3570

 78.9240, 0.2415,  
0.3570

491.2992, 0.2735,  
0.3446


 58.8333, 0.2344,  
0.3597

 131.8519, 0.2524,  
0.3528


 42.4790, 0.2258,  
0.3630


 165.4578, 0.2567,  
0.3511

 29.4765, 0.2151,  
0.3670


 204.3377, 0.2605,  
0.3497

 19.4416, 0.2015,  
0.3720

 248.8759, 0.2637,  
0.3484

 11.9898, 0.1836,  
0.3785

299.4567, 0.2666,  
0.3473

 6.7367, 0.1594,  
0.3872


356.4646, 0.2692,


 3.2980, 0.1251,


0.3463


0.3987


420.2840, 0.2715,  
0.3454

 1.2892, 0.0000,  
0.4475


 0.1328, 0.0000,  
0.3181


 78.9240, 0.2415,  
0.3570


 78.9240, 0.2415,  
0.3570


 77.8794, 0.2380,  
0.3616

 80.3938, 0.2470,  
0.3524


 77.1990, 0.2364,  
0.3662


 82.3229, 0.2544,  
0.3480

 76.8035, 0.2363,  
0.3707

 84.7525, 0.2636,  
0.3437

 76.7958, 0.2363,  
0.3708

 87.7166, 0.2744,  
0.3396

 91.2461, 0.2864,  
0.3357

 95.3697, 0.2994,  
0.3322

99.9999, 0.3127,  
0.3290

# Harmonies

## Analogous

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



78.9240, 0.2893, 0.4107



78.9240, 0.2415, 0.3570



78.9240, 0.2139, 0.2992

# Triad

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



78.9240, 0.2415, 0.3570



78.9240, 0.2718, 0.2420



78.9240, 0.4258, 0.3872

# Complementary

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



78.9240, 0.2415, 0.3570



27.5000, 0.5212, 0.3102

# 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.



78.9240, 0.4226, 0.3428



78.9240, 0.2415, 0.3570



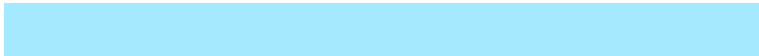
78.9240, 0.3287, 0.2634

# Square

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



78.9240, 0.2415, 0.3570



78.9240, 0.2302, 0.2391



78.9240, 0.3858, 0.2991



78.9240, 0.3966, 0.4228



# Rectangle

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



78.9240, 0.2415, 0.3570



78.9240, 0.2088, 0.2692



78.9240, 0.3858, 0.2991



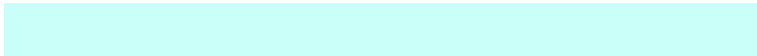
78.9240, 0.4287, 0.3728

# Sweetspot

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



78.9270, 0.2415, 0.3570



90.7821, 0.2849, 0.3362



74.8120, 0.3110, 0.5481



19.2143, 0.2815, 0.3372



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.



78.9270, 0.2415, 0.3570



77.5505, 0.2371, 0.3635



45.5245, 0.2119, 0.2443



20.4387, 0.2997, 0.3321



40.1433, 0.2361, 0.3700



3.9194, 0.2347, 0.3648



# Inverse Universe

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



27.5000, 0.5212, 0.3102



23.2554, 0.5814, 0.3138



41.2367, 0.4945, 0.3898



18.0253, 0.3274, 0.3260



11.1778, 0.6239, 0.3211

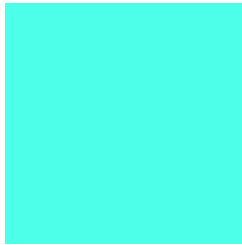


1.0997, 0.5989, 0.3073



# Previews

## White Background



This preview shows how the Yxy color 78.9240, 0.2415, 0.3570 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

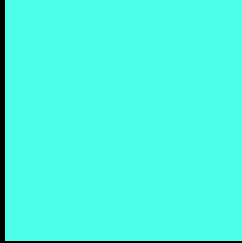
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.9240, 0.2415, 0.3570 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

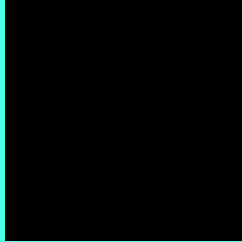
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 78.9240, 0.2415, 0.3570**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.9240, 0.2415, 0.3570.

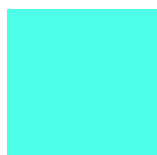


This preview shows how white text looks on a background with the Yxy color 78.9240, 0.2415, 0.3570.

# Color Blindness Simulation

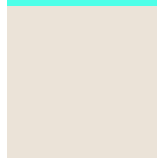
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



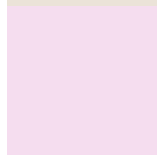
### Original Color

78.9240, 0.2415, 0.3570



### Protanopia

77.5582, 0.3255, 0.3406



### Deuteranopia

77.3574, 0.3178, 0.3108



## Tritanopia

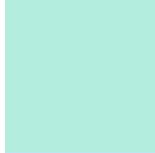
78.4056, 0.2594, 0.3143

# Trichromacy



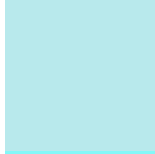
## Original Color

78.9240, 0.2415, 0.3570



## Protanomaly

75.3073, 0.2842, 0.3462



## Deuteranomaly

74.5243, 0.2798, 0.3255



## Tritanomaly

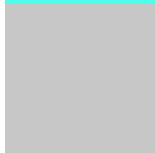
78.0622, 0.2502, 0.3288

# Monochromacy



## Original Color

78.9240, 0.2415, 0.3570



## Achromatopsia

57.1125, 0.3127, 0.3290



## Achromatomaly

62.3347, 0.2751, 0.3389

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.9240, 0.2415, 0.3570 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(77, 255, 232)` looks like.

```
.text, #text, p{  
    color:rgb(77, 255, 232)  
}
```

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(77, 255, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 255, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 78.9240, 0.2415, 0.3570 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(77, 255, 232) }
```

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

```
.border{ border-color:rgb(77, 255, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 255, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 255, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 255, 232);  
box-shadow:4px 4px 4px 4px rgb(77, 255,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.9240, 0.2415, 0.3570 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 255, 232) }
```

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

```
.background{ background-color: rgb(77, 255,  
232) }
```

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