

# Converting Colors

$Y_{xy}(77.2587, 0.2398, 0.3719)$

Have a look what the booklet for  
Yxy(77.2587, 0.2398, 0.3719)  
contains.

<b>Yxy(77.2540, 0.2397, 0.3719)</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(77.2540, 0.2397, 0.3719)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2BFFDD
RGB	43, 255, 221
RGB Percent	17%, 100%, 87%
CMY	0.8330, 0.0000, 0.1334
CMYK	0.83, 0.00, 0.13, 0.00
HSL	170°, 100%, 58%
HSV	170°, 83%, 100%
XYZ	49.7924, 77.2540, 80.6815
YIQ	187.7360, -115.4380, -55.5180

# Conversions

## Conversions Part 2

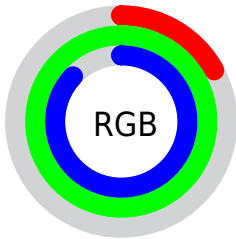
Format	Color
<b>RYB</b>	43, 158, 255
Decimal	2883549
CIELab	90.44, -55.72, 2.53
CIELCh	90, 55.776, 177.397
Yxy	77.2540, 0.2397, 0.3719
Android (android.graphics.Color)	4281073629 (0xFF2BFFDD)
YUV	187.7360, 16.3992, -126.9335
Hunter-Lab	87.8943, -52.6941, 7.1014

# Details

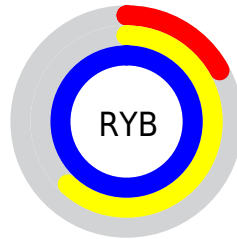
The Yxy color **77.2540, 0.2397, 0.3719** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **23.4886, 0.5705, 0.3087**, and the grayscale version is **50.0119, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.3292, 0.2475, 0.3288**, and **42.6857, 0.2388, 0.3796** is the 20% darker color. If you saturate the color by 10%, you get **76.6446, 0.2390, 0.3776**, and if you desaturate by 10%, it is **78.1922, 0.2423, 0.3661**.

# Distribution



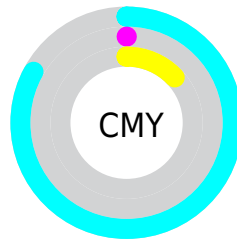
- Red (17%)
- Green (100%)
- Blue (87%)



- Red (17%)
- Yellow (62%)
- Blue (100%)



- Cyan (83%)
- Magenta (0%)
- Yellow (13%)
- Black (0%)




- Cyan (83%)
- Magenta (0%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.2540, 0.2397, 0.3719 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 77.2540, 0.2397, 0.3719 by changing the saturation by 10% instead.




 77.2540, 0.2397,  
0.3719


 77.2540, 0.2397,  
0.3719


485.6296, 0.2729,  
0.3522


 57.4614, 0.2323,  
0.3764


 129.4980, 0.2511,  
0.3651


 41.3758, 0.2232,  
0.3818


 162.7181, 0.2556,  
0.3624

 28.6128, 0.2119,  
0.3887


 201.1828, 0.2594,  
0.3601

 18.7881, 0.1975,  
0.3976

 245.2766, 0.2628,  
0.3581

 11.5173, 0.1784,  
0.4096

295.3837, 0.2658,  
0.3564

 6.4159, 0.1523,  
0.4263


351.8887, 0.2684,


 3.0996, 0.1150,


0.3548


0.4510


415.1759, 0.2708,  
0.3534


 1.1839, 0.0000,  
0.5216

 0.0485, 0.0000,  
1.0000


 77.2540, 0.2397,  
0.3719


 77.2540, 0.2397,  
0.3719


 76.6446, 0.2390,  
0.3776


 78.1922, 0.2423,  
0.3661

 76.3834, 0.2393,  
0.3814


 79.5438, 0.2469,  
0.3603


 81.3451, 0.2534,  
0.3546

 83.6359, 0.2617,  
0.3492

 86.4513, 0.2717,  
0.3439

 89.8235, 0.2830,  
0.3390

 93.7818, 0.2953,  
0.3345

 98.3537, 0.3083,  
0.3303

 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.



77.2540, 0.2957, 0.4303



77.2540, 0.2397, 0.3719



77.2540, 0.2053, 0.3042

# Triad

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



77.2540, 0.2397, 0.3719



77.2540, 0.2573, 0.2300



77.2540, 0.4425, 0.3849

# Complementary

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



77.2540, 0.2397, 0.3719



23.4886, 0.5705, 0.3087

# 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.



77.2540, 0.4330, 0.3349



77.2540, 0.2397, 0.3719



77.2540, 0.3192, 0.2507

# Square

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



77.2540, 0.2397, 0.3719



77.2540, 0.2150, 0.2300



77.2540, 0.3858, 0.2878



77.2540, 0.4140, 0.4284



# Rectangle

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



77.2540, 0.2397, 0.3719



77.2540, 0.1970, 0.2681



77.2540, 0.3858, 0.2878



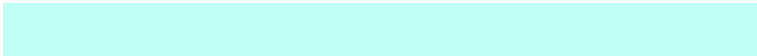
77.2540, 0.4439, 0.3684

# Sweetspot

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



77.2444, 0.2397, 0.3719



89.2086, 0.2810, 0.3398



73.3109, 0.3098, 0.5774



18.8341, 0.2769, 0.3415



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.



77.2444, 0.2397, 0.3719



76.3834, 0.2393, 0.3814



42.0879, 0.2022, 0.2350



20.4285, 0.3001, 0.3328



39.9307, 0.2390, 0.3805



3.9007, 0.2372, 0.3739



# Inverse Universe

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



23.4886, 0.5705, 0.3087



21.4190, 0.6207, 0.3193



33.3300, 0.5466, 0.3826



18.0345, 0.3269, 0.3252



11.2058, 0.6176, 0.3176

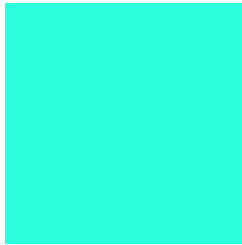


1.1040, 0.5900, 0.3024



# Previews

## White Background



This preview shows how the Yxy color 77.2540, 0.2397, 0.3719 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

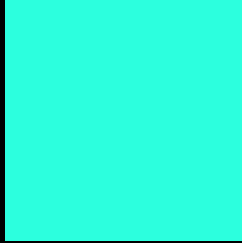
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.2540, 0.2397, 0.3719 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

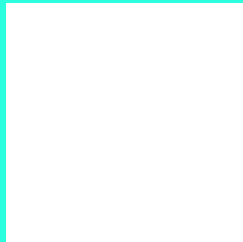
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.2540, 0.2397, 0.3719**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.2540, 0.2397, 0.3719.

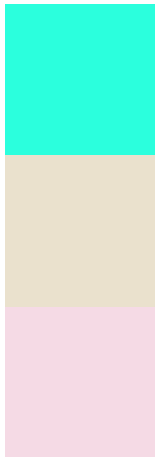


This preview shows how white text looks on a background with the Yxy color 77.2540, 0.2397, 0.3719.

# 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

77.2540, 0.2397, 0.3719

### Protanopia

75.7506, 0.3324, 0.3503

### Deuteranopia

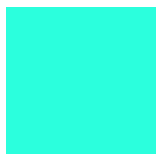
75.2124, 0.3248, 0.3178



## Tritanopia

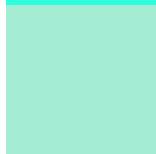
76.5202, 0.2531, 0.3129

# Trichromacy



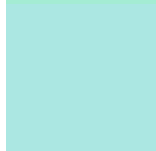
## Original Color

77.2540, 0.2397, 0.3719



## Protanomaly

72.5866, 0.2821, 0.3588



## Deuteranomaly

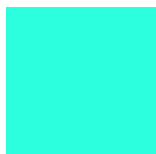
71.3007, 0.2775, 0.3347



## Tritanomaly

75.6976, 0.2440, 0.3324

# Monochromacy



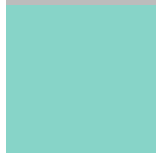
## Original Color

77.2540, 0.2397, 0.3719



## Achromatopsia

50.2886, 0.3127, 0.3290



## Achromatomaly

56.4080, 0.2687, 0.3448

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.2540, 0.2397, 0.3719 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(43, 255, 221)` looks like.

```
.text, #text, p{  
    color:rgb(43, 255, 221)  
}
```

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(43, 255, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 255, 221) }
```

## Border

The CSS property to change the border of an element to Yxy 77.2540, 0.2397, 0.3719 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(43, 255, 221) }
```

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

```
.border{ border-color:rgb(43, 255, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(43, 255, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(43, 255, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(43, 255, 221);  
box-shadow:4px 4px 4px 4px rgb(43, 255,  
221) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.2540, 0.2397, 0.3719 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 255, 221) }
```

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

```
.background{ background-color: rgb(43, 255,  
221) }
```

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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