

# Converting Colors

$Y_{xy}(77.4032, 0.2411, 0.3728)$

Have a look what the booklet for  
Yxy(77.4032, 0.2411, 0.3728)  
contains.

<b>Yxy(77.3911, 0.2412, 0.3731)</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(77.3911, 0.2412, 0.3731)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FFDC
RGB	51, 255, 220
RGB Percent	20%, 100%, 86%
CMY	0.8011, 0.0000, 0.1373
CMYK	0.80, 0.00, 0.14, 0.00
HSL	170°, 100%, 60%
HSV	170°, 80%, 100%
XYZ	50.0314, 77.3911, 80.0047
YIQ	190.0140, -110.3490, -54.1330

# Conversions

## Conversions Part 2

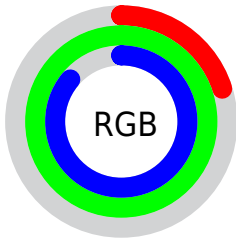
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 163, 255
Decimal	3407836
CIELab	90.50, -55.35, 3.15
CIELCh	91, 55.435, 176.744
Yxy	77.3911, 0.2412, 0.3731
Android (android.graphics.Color)	4281597916 (0xFF33FFDC)
YUV	190.0140, 14.7831, -121.9153
Hunter-Lab	87.9722, -52.4351, 7.6604

# Details

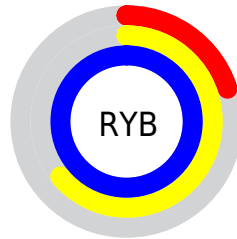
The Yxy color **77.3911, 0.2412, 0.3731** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **24.2704, 0.5548, 0.3055**, and the grayscale version is **51.4096, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.6455, 0.2489, 0.3288**, and **42.6491, 0.2393, 0.3814** is the 20% darker color. If you saturate the color by 10%, you get **76.6678, 0.2400, 0.3793**, and if you desaturate by 10%, it is **78.4669, 0.2443, 0.3668**.

# Distribution



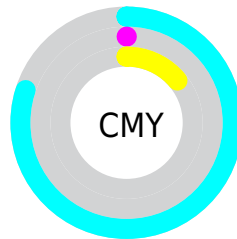
- Red (20%)
- Green (100%)
- Blue (86%)



- Red (20%)
- Yellow (64%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (14%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.3911, 0.2412, 0.3731 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 77.3911, 0.2412, 0.3731 by changing the saturation by 10% instead.





 77.3911, 0.2412,  
0.3731

 77.3911, 0.2412,  
0.3731


486.0965, 0.2738,  
0.3528

 57.5739, 0.2339,  
0.3777

 129.6914, 0.2524,  
0.3661

 41.4662, 0.2250,  
0.3834


 162.9433, 0.2568,  
0.3633

 28.6835, 0.2139,  
0.3906


 201.4423, 0.2605,  
0.3610

 18.8416, 0.1997,  
0.3998

 245.5727, 0.2639,  
0.3589

 11.5558, 0.1808,  
0.4123

295.7189, 0.2668,  
0.3571

 6.4420, 0.1550,  
0.4299

352.2653, 0.2694,

 3.1157, 0.1180,

0.3555

415.5964, 0.2717,  
0.3540

0.4562

■ 1.1924, 0.0000,  
0.5322

■ 0.0555, 0.0000,  
1.0000

■ 77.3911, 0.2412,  
0.3731

■ 77.3911, 0.2412,  
0.3731

■ 76.6678, 0.2400,  
0.3793


■ 78.4669, 0.2443,  
0.3668

■ 76.2383, 0.2404,  
0.3854

■ 79.9705, 0.2495,  
0.3607

■ 81.9377, 0.2565,  
0.3546

■ 84.4068, 0.2653,  
0.3488

 87.4119, 0.2756,  
0.3433

 90.9842, 0.2871,  
0.3381

 95.1524, 0.2995,  
0.3334

99.9432, 0.3126,  
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.



77.3911, 0.2973, 0.4304



77.3911, 0.2412, 0.3731



77.3911, 0.2064, 0.3058

# Triad

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



77.3911, 0.2412, 0.3731



77.3911, 0.2565, 0.2303



77.3911, 0.4419, 0.3836

# Complementary

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



77.3911, 0.2412, 0.3731



24.2704, 0.5548, 0.3055

# 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.



77.3911, 0.4315, 0.3339



77.3911, 0.2412, 0.3731



77.3911, 0.3177, 0.2505

# Square

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



77.3911, 0.2412, 0.3731



77.3911, 0.2150, 0.2309



77.3911, 0.3839, 0.2871



77.3911, 0.4144, 0.4271



# Rectangle

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



77.3911, 0.2412, 0.3731



77.3911, 0.1977, 0.2695



77.3911, 0.3839, 0.2871



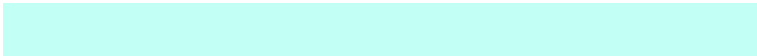
77.3911, 0.4430, 0.3672

# Sweetspot

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



77.3834, 0.2412, 0.3731



89.5257, 0.2825, 0.3401



73.8395, 0.3120, 0.5704



18.8928, 0.2784, 0.3419



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.



77.3834, 0.2412, 0.3731



76.3924, 0.2401, 0.3829



44.8780, 0.2058, 0.2439



20.4249, 0.3003, 0.3331



39.8558, 0.2401, 0.3843



3.8941, 0.2381, 0.3773



# Inverse Universe

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



24.2704, 0.5548, 0.3055



21.7307, 0.6087, 0.3152



33.8509, 0.5397, 0.3805



18.0379, 0.3267, 0.3250



11.2174, 0.6151, 0.3162

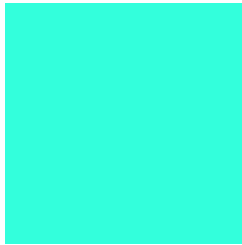


1.1056, 0.5868, 0.3006



# Previews

## White Background



This preview shows how the Yxy color 77.3911, 0.2412, 0.3731 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

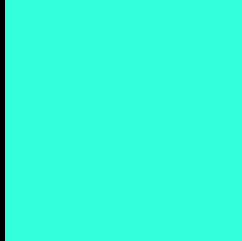
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.3911, 0.2412, 0.3731 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

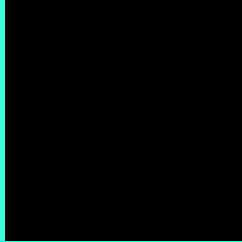
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.3911, 0.2412, 0.3731**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.3911, 0.2412, 0.3731.

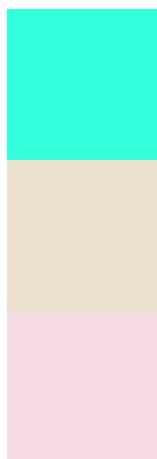


This preview shows how white text looks on a background with the Yxy color 77.3911, 0.2412, 0.3731.

# 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

77.3911, 0.2412, 0.3731

### Protanopia

75.8722, 0.3338, 0.3514

### Deuteranopia

75.8573, 0.3261, 0.3199



## Tritanopia

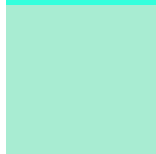
76.6146, 0.2536, 0.3129

# Trichromacy



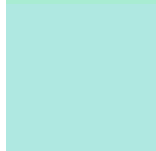
## Original Color

77.3911, 0.2412, 0.3731



## Protanomaly

72.9689, 0.2850, 0.3599



## Deuteranomaly

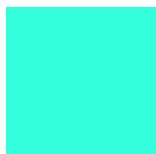
72.2634, 0.2804, 0.3370



## Tritanomaly

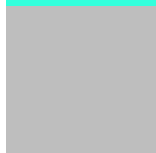
75.8997, 0.2458, 0.3336

# Monochromacy



## Original Color

77.3911, 0.2412, 0.3731



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

57.7991, 0.2708, 0.3460

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.3911, 0.2412, 0.3731 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(51, 255, 220)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 220)  
}
```

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(51, 255, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 220) }
```

## Border

The CSS property to change the border of an element to Yxy 77.3911, 0.2412, 0.3731 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(51, 255, 220) }
```

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

```
.border{ border-color:rgb(51, 255, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 220);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
220) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.3911, 0.2412, 0.3731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 220) }
```

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

```
.background{ background-color: rgb(51, 255,  
220) }
```

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