

# Converting Colors

$Y_{xy}(77.0429, 0.2422, 0.3789)$

Have a look what the booklet for  
Yxy(77.0429, 0.2422, 0.3789)  
contains.

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# Color

**Yxy(77.0587, 0.2421, 0.3785)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EFFD8
RGB	46, 255, 216
RGB Percent	18%, 100%, 85%
CMY	0.8187, 0.0000, 0.1529
CMYK	0.82, 0.00, 0.15, 0.00
HSL	169°, 100%, 59%
HSV	169°, 82%, 100%
XYZ	49.2891, 77.0587, 77.2419
YIQ	188.0630, -112.0450, -56.4370

# Conversions

## Conversions Part 2

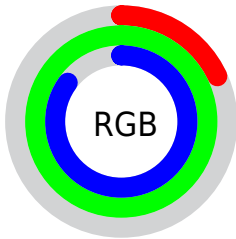
<b>Format</b>	<b>Color</b>
<b>RYB</b>	46, 161, 255
Decimal	3080152
CIELab	90.35, -56.69, 4.99
CIELCh	90, 56.913, 174.973
Yxy	77.0587, 0.2421, 0.3785
Android (android.graphics.Color)	4281270232 (0xFF2EFFD8)
YUV	188.0630, 13.7729, -124.5893
Hunter-Lab	87.7831, -53.3950, 9.2778

# Details

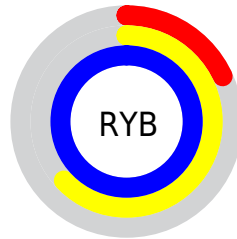
The Yxy color **77.0587, 0.2421, 0.3785** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **23.8918, 0.5574, 0.3035**, and the grayscale version is **50.3367, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4071, 0.2478, 0.3288**, and **42.5057, 0.2412, 0.3884** is the 20% darker color. If you saturate the color by 10%, you get **76.3890, 0.2414, 0.3853**, and if you desaturate by 10%, it is **78.0930, 0.2448, 0.3716**.

# Distribution



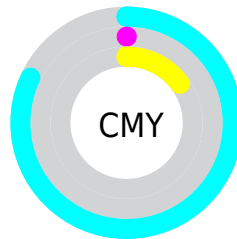
- Red (18%)
- Green (100%)
- Blue (85%)



- Red (18%)
- Yellow (63%)
- Blue (100%)



- Cyan (82%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)




- Cyan (82%)
- Magenta (0%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.0587, 0.2421, 0.3785 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 77.0587, 0.2421, 0.3785 by changing the saturation by 10% instead.



 77.0587, 0.2421,  
0.3785

 77.0587, 0.2421,  
0.3785


484.9641, 0.2744,  
0.3554


 57.3011, 0.2349,  
0.3838


 129.2223, 0.2532,  
0.3705


 41.2470, 0.2260,  
0.3903


 162.3971, 0.2576,  
0.3674

 28.5121, 0.2149,  
0.3986


 200.8131, 0.2613,  
0.3647

 18.7121, 0.2006,  
0.4094

 244.8546, 0.2646,  
0.3624

 11.4624, 0.1816,  
0.4241

294.9061, 0.2675,  
0.3603

 6.3788, 0.1554,  
0.4451


351.3519, 0.2700,


 3.0767, 0.1175,

0.3585

0.4773


414.5764, 0.2723,  
0.3569


 1.1719, 0.0000,  
0.5660

 0.0386, 0.0000,  
1.0000


 77.0587, 0.2421,  
0.3785

 77.0587, 0.2421,  
0.3785

 76.3890, 0.2414,  
0.3853


 78.0930, 0.2448,  
0.3716

 76.0400, 0.2419,  
0.3908


 79.5370, 0.2494,  
0.3648


 81.4387, 0.2560,  
0.3582

 83.8369, 0.2644,  
0.3517

 86.7665, 0.2743,  
0.3456

 90.2592, 0.2854,  
0.3399

 94.3440, 0.2975,  
0.3346

 99.0480, 0.3103,  
0.3298

 99.9972, 0.3127,  
0.3290

# Harmonies

## Analogous

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



77.0587, 0.3004, 0.4360



77.0587, 0.2421, 0.3785



77.0587, 0.2051, 0.3087

# Triad

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



77.0587, 0.2421, 0.3785



77.0587, 0.2519, 0.2273



77.0587, 0.4460, 0.3816

# Complementary

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



77.0587, 0.2421, 0.3785



23.8918, 0.5574, 0.3035

# 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.



77.0587, 0.4329, 0.3308



77.0587, 0.2421, 0.3785



77.0587, 0.3137, 0.2468

# Square

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



77.0587, 0.2421, 0.3785



77.0587, 0.2108, 0.2292



77.0587, 0.3822, 0.2834



77.0587, 0.4194, 0.4272



# Rectangle

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



77.0587, 0.2421, 0.3785



77.0587, 0.1952, 0.2706



77.0587, 0.3822, 0.2834



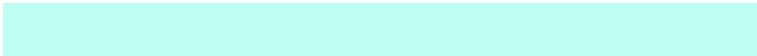
77.0587, 0.4463, 0.3648

# Sweetspot

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



77.0617, 0.2421, 0.3785



89.1054, 0.2818, 0.3417



73.7908, 0.3127, 0.5729



18.8092, 0.2779, 0.3437



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.



77.0617, 0.2421, 0.3785



76.1228, 0.2417, 0.3895



45.6681, 0.2058, 0.2466



20.4198, 0.3005, 0.3335



39.7550, 0.2416, 0.3897



3.8852, 0.2394, 0.3819



# Inverse Universe

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



23.8918, 0.5574, 0.3035



21.6167, 0.6099, 0.3146



32.3676, 0.5492, 0.3767



18.0425, 0.3265, 0.3246



11.2345, 0.6114, 0.3142

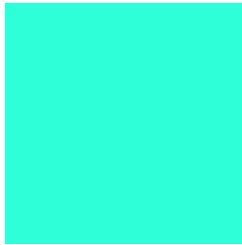


1.1079, 0.5822, 0.2981



# Previews

## White Background



This preview shows how the Yxy color 77.0587, 0.2421, 0.3785 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

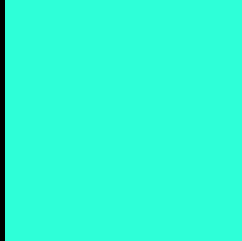
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.0587, 0.2421, 0.3785 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 77.0587, 0.2421, 0.3785**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.0587, 0.2421, 0.3785.

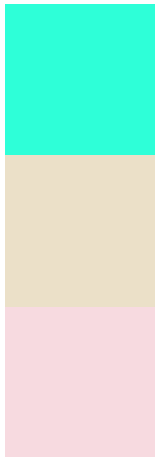


This preview shows how white text looks on a background with the Yxy color 77.0587, 0.2421, 0.3785.

# 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

77.0587, 0.2421, 0.3785

### Protanopia

75.1436, 0.3367, 0.3547

### Deuteranopia

75.2988, 0.3297, 0.3229



## Tritanopia

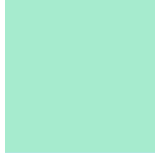
76.4265, 0.2527, 0.3129

# Trichromacy



## Original Color

77.0587, 0.2421, 0.3785



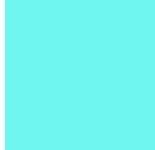
## Protanomaly

71.9799, 0.2859, 0.3638



## Deuteranomaly

71.3710, 0.2820, 0.3406



## Tritanomaly

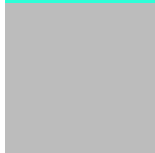
75.6419, 0.2452, 0.3348

# Monochromacy



## Original Color

77.0587, 0.2421, 0.3785



## Achromatopsia

50.2886, 0.3127, 0.3290



## Achromatomaly

56.3984, 0.2704, 0.3475

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.0587, 0.2421, 0.3785 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(46, 255, 216)` looks like.

```
.text, #text, p{  
    color:rgb(46, 255, 216)  
}
```

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(46, 255, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 255, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 77.0587, 0.2421, 0.3785 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(46, 255, 216) }
```

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

```
.border{ border-color:rgb(46, 255, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 255, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 255, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 255, 216);  
box-shadow:4px 4px 4px 4px rgb(46, 255,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.0587, 0.2421, 0.3785 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 255, 216) }
```

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

```
.background{ background-color: rgb(46, 255,  
216) }
```

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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