

# Converting Colors

$Y_{xy}(77.8204, 0.2467, 0.3782)$

Have a look what the booklet for  
Yxy(77.8204, 0.2467, 0.3782)  
contains.

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# Color

**Yxy(77.8556, 0.2467, 0.3779)**

# Conversions

## Conversions Part 1

Format	Color
Hex	48FFD8
RGB	72, 255, 216
RGB Percent	28%, 100%, 85%
CMY	0.7180, 0.0000, 0.1528
CMYK	0.72, 0.00, 0.15, 0.00
HSL	167°, 100%, 64%
HSV	167°, 72%, 100%
XYZ	50.8256, 77.8556, 77.3405
YIQ	195.8370, -96.5490, -50.9250

# Conversions

## Conversions Part 2

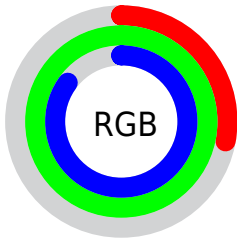
<b>Format</b>	<b>Color</b>
<b>RYB</b>	72, 174, 255
Decimal	4784088
CIELab	90.71, -54.14, 5.54
CIElCh	91, 54.420, 174.156
Yxy	77.8556, 0.2467, 0.3779
Android (android.graphics.Color)	4282974168 (0xFF48FFD8)
YUV	195.8370, 9.9404, -108.6050
Hunter-Lab	88.2358, -51.5932, 9.7961

# Details

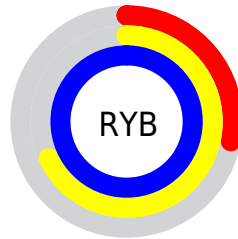
The Yxy color **77.8556, 0.2467, 0.3779** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light washed cyan. A complement of this color would be **27.0276, 0.5089, 0.2963**, and the grayscale version is **55.0667, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6693, 0.2536, 0.3288**, and **42.5057, 0.2412, 0.3884** is the 20% darker color. If you saturate the color by 10%, you get **76.7942, 0.2442, 0.3858**, and if you desaturate by 10%, it is **79.3292, 0.2512, 0.3700**.

# Distribution



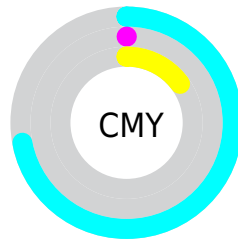
- Red (28%)
- Green (100%)
- Blue (85%)



- Red (28%)
- Yellow (68%)
- Blue (100%)



- Cyan (72%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)




- Cyan (72%)
- Magenta (0%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.8556, 0.2467, 0.3779 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 77.8556, 0.2467, 0.3779 by changing the saturation by 10% instead.



 77.8556, 0.2467,  
0.3779


 77.8556, 0.2467,  
0.3779

487.6763, 0.2769,  
0.3551


 57.9554, 0.2399,  
0.3831


 130.3465, 0.2571,  
0.3700


 41.7728, 0.2316,  
0.3896

 163.7060, 0.2612,  
0.3669

 28.9234, 0.2212,  
0.3978


 202.3208, 0.2647,  
0.3642

 19.0229, 0.2077,  
0.4086

 246.5751, 0.2677,  
0.3619

 11.6868, 0.1898,  
0.4233

296.8534, 0.2704,  
0.3599

 6.5308, 0.1650,  
0.4443

353.5401, 0.2728,

 3.1704, 0.1290,

0.3581

0.4767

417.0196, 0.2750,  
0.3565

■ 1.2214, 0.0000,  
0.5746

■ 0.0790, 0.0000,  
1.0000

■ 77.8556, 0.2467,  
0.3779

■ 77.8556, 0.2467,  
0.3779

■ 76.7942, 0.2442,  
0.3858

■ 79.3292, 0.2512,  
0.3700


■ 76.0953, 0.2437,  
0.3937

■ 81.2643, 0.2576,  
0.3624

■ 75.7248, 0.2445,  
0.4001


■ 83.6983, 0.2657,  
0.3550

■ 86.6661, 0.2754,  
0.3480

 90.1994, 0.2863,  
0.3414

 94.3271, 0.2980,  
0.3354

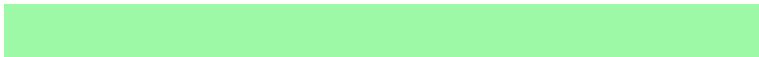
 99.0766, 0.3104,  
0.3299

 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.



77.8556, 0.3030, 0.4314



77.8556, 0.2467, 0.3779



77.8556, 0.2103, 0.3117

# Triad

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



77.8556, 0.2467, 0.3779



77.8556, 0.2533, 0.2312



77.8556, 0.4401, 0.3787

# Complementary

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



77.8556, 0.2467, 0.3779



27.0276, 0.5089, 0.2963

# 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.



77.8556, 0.4263, 0.3298



77.8556, 0.2467, 0.3779



77.8556, 0.3120, 0.2494

# Square

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



77.8556, 0.2467, 0.3779



77.8556, 0.2143, 0.2338



77.8556, 0.3773, 0.2843



77.8556, 0.4161, 0.4223



# Rectangle

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



77.8556, 0.2467, 0.3779



77.8556, 0.2002, 0.2748



77.8556, 0.3773, 0.2843



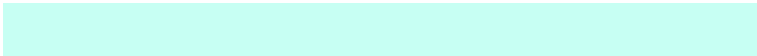
77.8556, 0.4399, 0.3625

# Sweetspot

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



77.8541, 0.2467, 0.3779



90.1233, 0.2860, 0.3416



75.4038, 0.3172, 0.5491



19.0734, 0.2830, 0.3433



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.



77.8541, 0.2467, 0.3779



76.4603, 0.2438, 0.3891



51.3646, 0.2151, 0.2624



20.4114, 0.3008, 0.3341



39.5907, 0.2441, 0.3988



3.8705, 0.2416, 0.3898



# Inverse Universe

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



27.0276, 0.5089, 0.2963



23.1184, 0.5655, 0.3012



36.0879, 0.5158, 0.3754



18.0503, 0.3261, 0.3240



11.2668, 0.6045, 0.3104

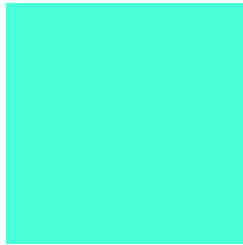


1.1122, 0.5742, 0.2937



# Previews

## White Background



This preview shows how the Yxy color 77.8556, 0.2467, 0.3779 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

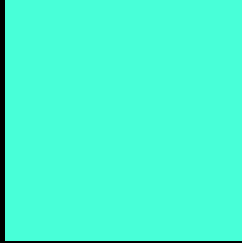
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.8556, 0.2467, 0.3779 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

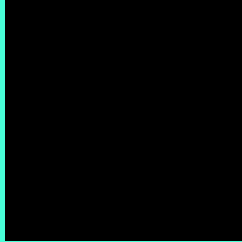
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.8556, 0.2467, 0.3779**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.8556, 0.2467, 0.3779.

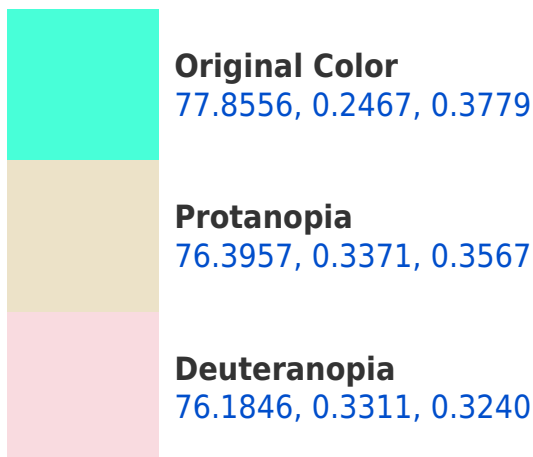


This preview shows how white text looks on a background with the Yxy color 77.8556, 0.2467, 0.3779.

# 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





## Tritanopia

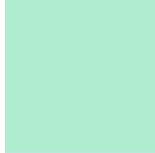
77.1985, 0.2564, 0.3131

# Trichromacy



## Original Color

77.8556, 0.2467, 0.3779



## Protanomaly

74.2547, 0.2920, 0.3655



## Deuteranomaly

73.2480, 0.2887, 0.3416



## Tritanomaly

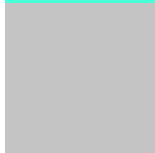
76.6224, 0.2503, 0.3347

# Monochromacy



## Original Color

77.8556, 0.2467, 0.3779



## Achromatopsia

55.2011, 0.3127, 0.3290



## Achromatomaly

60.5168, 0.2771, 0.3468

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.8556, 0.2467, 0.3779 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(72, 255, 216)` looks like.

```
.text, #text, p{  
    color:rgb(72, 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(72, 255, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 255, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 77.8556, 0.2467, 0.3779 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(72, 255, 216) }
```

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

```
.border{ border-color:rgb(72, 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(72, 255, 216) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 255, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 255, 216);  
box-shadow:4px 4px 4px 4px rgb(72, 255,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.8556, 0.2467, 0.3779 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 255, 216) }
```

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

```
.background{ background-color: rgb(72, 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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