

# Converting Colors

$Yxy(77.8532, 0.2685, 0.4181)$

Have a look what the booklet for  
Yxy(77.8532, 0.2685, 0.4181)  
contains.

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# Color

**Yxy(77.8476, 0.2686, 0.4182)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 66FFB9                       |
| RGB         | 102, 255, 185                |
| RGB Percent | 40%, 100%, 73%               |
| CMY         | 0.5999, 0.0000, 0.2744       |
| CMYK        | 0.60, 0.00, 0.27, 0.00       |
| HSL         | 153°, 100%, 70%              |
| HSV         | 153°, 60%, 100%              |
| XYZ         | 49.9997, 77.8476, 58.3019    |
| YIQ         | 201.2730, -68.7180, -54.2060 |

# Conversions

## Conversions Part 2

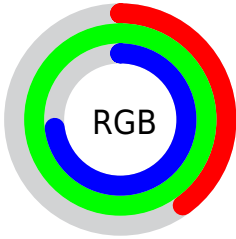
| Format                              | Color   |
|-------------------------------------|---|
| <a href="#">RYB</a>                 | <a href="#">102, 201, 255</a>                   |
| Decimal                             | <a href="#">6750137</a>                         |
| CIELab                              | <a href="#">90.71, -56.33, 21.58</a>            |
| CIELCh                              | <a href="#">91, 60.323, 159.042</a>             |
| Yxy                                 | <a href="#">77.8476, 0.2686,<br/>0.4182</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4284940217<br/>(0xFF66FFB9)</a>     |
| YUV                                 | <a href="#">201.2730, -8.0226,<br/>-87.0624</a> |
| Hunter-Lab                          | <a href="#">88.2313, -53.2508,<br/>22.5839</a>  |

# Details

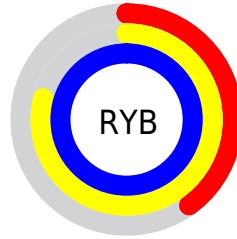
The Yxy color **77.8476, 0.2686, 0.4182** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **33.7450, 0.4114, 0.2598**, and the grayscale version is **58.6746, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.8702, 0.2694, 0.3445**, and **41.6840, 0.2569, 0.4407** is the 20% darker color. If you saturate the color by 10%, you get **76.1090, 0.2658, 0.4363**, and if you desaturate by 10%, it is **80.0890, 0.2732, 0.4006**.

# Distribution



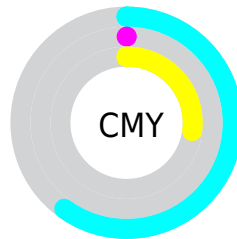
- Red (40%)
- Green (100%)
- Blue (73%)



- Red (40%)
- Yellow (79%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (27%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.8476, 0.2686, 0.4182 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 77.8476, 0.2686, 0.4182 by changing the saturation by 10% instead.





 77.8476, 0.2686,  
0.4182


 77.8476, 0.2686,  
0.4182


487.6491, 0.2899,  
0.3749

 57.9488, 0.2635,  
0.4286


 130.3353, 0.2762,  
0.4028

 41.7675, 0.2571,  
0.4416


 163.6929, 0.2791,  
0.3969

 28.9193, 0.2489,  
0.4585


 202.3056, 0.2815,  
0.3919

 19.0198, 0.2378,  
0.4812

246.5578, 0.2837,  
0.3876

 11.6846, 0.2223,  
0.5132

296.8339, 0.2855,  
0.3838

 6.5293, 0.1992,  
0.5611


353.5182, 0.2872,


 3.1695, 0.1621,


0.3805


0.6388


416.9951, 0.2886,  
0.3775


 1.2209, 0.0000,  
1.0000


 0.0786, 0.0000,  
1.0000

 77.8476, 0.2686,  
0.4182

 77.8476, 0.2686,  
0.4182


 76.1090, 0.2658,  
0.4363


 80.0890, 0.2732,  
0.4006


 74.8222, 0.2650,  
0.4545

 82.8657, 0.2794,  
0.3838


 73.9364, 0.2662,  
0.4723

 86.2148, 0.2868,  
0.3681

 73.3658, 0.2692,  
0.4892

 90.1682, 0.2950,  
0.3537

 73.3654, 0.2692,  
0.4893

 94.7556, 0.3037,  
0.3407

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.



77.8476, 0.3359, 0.4577



77.8476, 0.2686, 0.4182



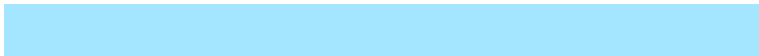
77.8476, 0.2167, 0.3457

# Triad

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



77.8476, 0.2686, 0.4182



77.8476, 0.2227, 0.2204



77.8476, 0.4516, 0.3552

# Complementary

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



77.8476, 0.2686, 0.4182



33.7450, 0.4114, 0.2598

# 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.



77.8476, 0.4152, 0.3031



77.8476, 0.2686, 0.4182



77.8476, 0.2768, 0.2295

# Square

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



77.8476, 0.2686, 0.4182



77.8476, 0.1937, 0.2353



77.8476, 0.3480, 0.2589



77.8476, 0.4444, 0.4075



# Rectangle

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



77.8476, 0.2686, 0.4182



77.8476, 0.1966, 0.2980



77.8476, 0.3480, 0.2589



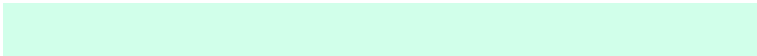
77.8476, 0.4442, 0.3374

# Sweetspot

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



77.8497, 0.2686, 0.4182



91.0307, 0.2967, 0.3510



81.4108, 0.3419, 0.5017



19.2165, 0.2942, 0.3550



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.



77.8497, 0.2686, 0.4182



75.8157, 0.2654, 0.4400



78.3554, 0.2377, 0.3228



20.3331, 0.3041, 0.3401



38.3655, 0.2685, 0.4865



3.7576, 0.2631, 0.4670



# Inverse Universe

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



33.7450, 0.4114, 0.2598



28.1969, 0.4429, 0.2525



32.7600, 0.4991, 0.3343



18.1253, 0.3222, 0.3182



11.8048, 0.5145, 0.2608

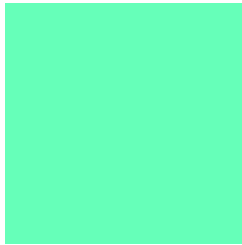


1.1711, 0.4868, 0.2455



# Previews

## White Background



This preview shows how the Yxy color 77.8476, 0.2686, 0.4182 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

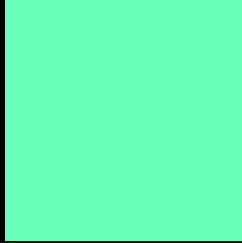
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.8476, 0.2686, 0.4182 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 77.8476, 0.2686, 0.4182**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.8476, 0.2686, 0.4182.

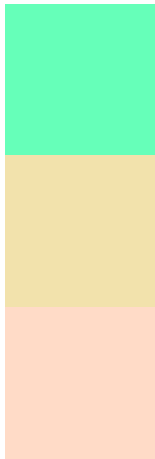


This preview shows how white text looks on a background with the Yxy color 77.8476, 0.2686, 0.4182.

# 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

77.8476, 0.2686, 0.4182

### Protanopia

76.2485, 0.3608, 0.3861

### Deuteranopia

76.0466, 0.3533, 0.3495



## Tritanopia

77.2216, 0.2591, 0.3120

# Trichromacy



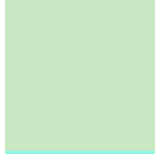
## Original Color

77.8476, 0.2686, 0.4182



## Protanomaly

74.8191, 0.3186, 0.3992



## Deuteranomaly

73.7504, 0.3140, 0.3727



## Tritanomaly

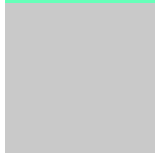
76.5934, 0.2614, 0.3467

# Monochromacy



## Original Color

77.8476, 0.2686, 0.4182



## Achromatopsia

58.4078, 0.3127, 0.3290



## Achromatomaly

63.6524, 0.2909, 0.3615

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.8476, 0.2686, 0.4182 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(102, 255, 185)` looks like.

```
.text, #text, p{  
    color:rgb(102, 255, 185)  
}
```

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(102, 255, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 255, 185) }
```

## Border

The CSS property to change the border of an element to Yxy 77.8476, 0.2686, 0.4182 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(102, 255, 185) }
```

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

```
.border{ border-color:rgb(102, 255, 185) }
```

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

Here you see how a box with a 4 pixel rgb(102, 255, 185) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 255, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 255, 185);  
box-shadow:4px 4px 4px 4px rgb(102, 255,  
185) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.8476, 0.2686, 0.4182 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 255, 185) }
```

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

```
.background{ background-color: rgb(102,  
255, 185) }
```

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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