

# Converting Colors

$Y_{xy}(77.5191, 0.2674, 0.4202)$

Have a look what the booklet for  
Yxy(77.5191, 0.2674, 0.4202)  
contains.

<b>Yxy(77.5221, 0.2673, 0.4200)</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(77.5221, 0.2673, 0.4200)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61FFB8
RGB	97, 255, 184
RGB Percent	38%, 100%, 72%
CMY	0.6199, 0.0000, 0.2784
CMYK	0.62, 0.00, 0.28, 0.00
HSL	153°, 100%, 69%
HSV	153°, 62%, 100%
XYZ	49.3373, 77.5221, 57.7170
YIQ	199.6640, -71.3770, -55.5770

# Conversions

## Conversions Part 2

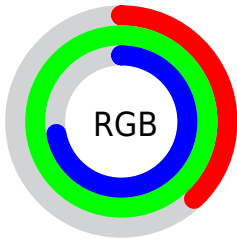
<b>Format</b>	<b>Color</b>
<b>RYB</b>	97, 199, 255
Decimal	6422456
CIELab	90.56, -57.48, 21.86
CIELCh	91, 61.498, 159.174
Yxy	77.5221, 0.2673, 0.4200
Android (android.graphics.Color)	4284612536 (0xFF61FFB8)
YUV	199.6640, -7.7224, -90.0363
Hunter-Lab	88.0466, -54.0584, 22.7664

# Details

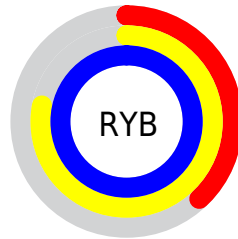
The Yxy color **77.5221, 0.2673, 0.4200** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **32.6221, 0.4181, 0.2595**, and the grayscale version is **57.6110, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.3883, 0.2680, 0.3457**, and **41.5712, 0.2564, 0.4429** is the 20% darker color. If you saturate the color by 10%, you get **75.8764, 0.2648, 0.4378**, and if you desaturate by 10%, it is **79.6509, 0.2717, 0.4026**.

# Distribution



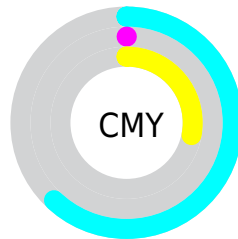
- Red (38%)
- Green (100%)
- Blue (72%)



- Red (38%)
- Yellow (78%)
- Blue (100%)



- Cyan (62%)
- Magenta (0%)
- Yellow (28%)
- Black (0%)




- Cyan (62%)
- Magenta (0%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.5221, 0.2673, 0.4200 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 77.5221, 0.2673, 0.4200 by changing the saturation by 10% instead.





 77.5221, 0.2673,  
0.4200


 77.5221, 0.2673,  
0.4200


486.5423, 0.2893,  
0.3758

 57.6815, 0.2621,  
0.4306

 129.8762, 0.2751,  
0.4042

 41.5526, 0.2555,  
0.4440

 163.1585, 0.2781,  
0.3982

 28.7512, 0.2469,  
0.4613


 201.6901, 0.2806,  
0.3931

 18.8927, 0.2355,  
0.4846

245.8555, 0.2828,  
0.3887

 11.5927, 0.2195,  
0.5174

296.0390, 0.2848,  
0.3848

 6.4670, 0.1957,  
0.5666


352.6251, 0.2864,


 3.1311, 0.1571,


0.3814


0.6467

415.9980, 0.2879,  
0.3784


 1.2005, 0.0000,  
1.0000


 0.0621, 0.0000,  
1.0000


 77.5221, 0.2673,  
0.4200


 77.5221, 0.2673,  
0.4200


 75.8764, 0.2648,  
0.4378

 79.6509, 0.2717,  
0.4026

 74.6765, 0.2643,  
0.4556

 82.3111, 0.2776,  
0.3859

 73.8644, 0.2659,  
0.4730

 85.5356, 0.2849,  
0.3704

 73.4277, 0.2684,  
0.4863

 89.3568, 0.2930,  
0.3560

 93.8046, 0.3018,  
0.3429

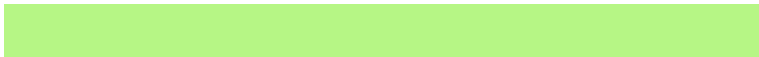
 98.9069, 0.3109,  
0.3312

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.



77.5221, 0.3358, 0.4606



77.5221, 0.2673, 0.4200



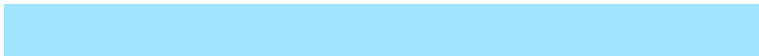
77.5221, 0.2147, 0.3456

# Triad

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



77.5221, 0.2673, 0.4200



77.5221, 0.2213, 0.2185



77.5221, 0.4545, 0.3556

# Complementary

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



77.5221, 0.2673, 0.4200



32.6221, 0.4181, 0.2595

# 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.



77.5221, 0.4176, 0.3028



77.5221, 0.2673, 0.4200



77.5221, 0.2763, 0.2279

# Square

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



77.5221, 0.2673, 0.4200



77.5221, 0.1916, 0.2334



77.5221, 0.3490, 0.2578



77.5221, 0.4468, 0.4088



# Rectangle

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



77.5221, 0.2673, 0.4200



77.5221, 0.1943, 0.2969



77.5221, 0.3490, 0.2578



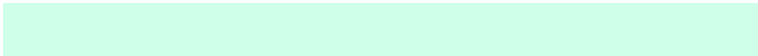
77.5221, 0.4470, 0.3376

# Sweetspot

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



77.5193, 0.2673, 0.4200



90.6177, 0.2956, 0.3519



80.7139, 0.3405, 0.5082



19.1371, 0.2931, 0.3558



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.



77.5193, 0.2673, 0.4200



75.6007, 0.2645, 0.4414



76.3387, 0.2354, 0.3194



20.3357, 0.3040, 0.3399



38.3981, 0.2677, 0.4836



3.7607, 0.2623, 0.4644



# Inverse Universe

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



32.6221, 0.4181, 0.2595



27.4274, 0.4508, 0.2534



32.1926, 0.5067, 0.3368



18.1227, 0.3223, 0.3184



11.7789, 0.5180, 0.2627

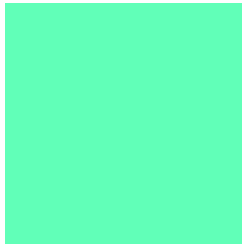


1.1685, 0.4899, 0.2473



# Previews

## White Background



This preview shows how the Yxy color 77.5221, 0.2673, 0.4200 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 77.5221, 0.2673, 0.4200 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

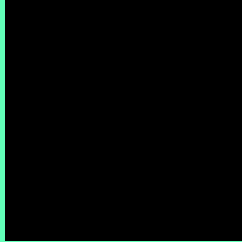
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.5221, 0.2673, 0.4200**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.5221, 0.2673, 0.4200.



This preview shows how white text looks on a background with the Yxy color 77.5221, 0.2673, 0.4200.

# 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

77.5221, 0.2673, 0.4200

### Protanopia

76.2102, 0.3615, 0.3871

### Deuteranopia

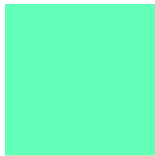
76.0003, 0.3541, 0.3505



## Tritanopia

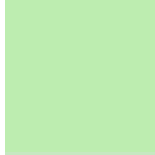
76.9111, 0.2576, 0.3120

# Trichromacy



## Original Color

77.5221, 0.2673, 0.4200



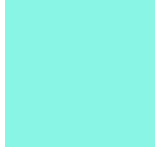
## Protanomaly

74.5218, 0.3178, 0.4007



## Deuteranomaly

73.5692, 0.3140, 0.3739



## Tritanomaly

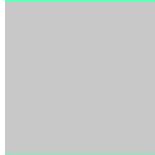
76.1962, 0.2601, 0.3480

# Monochromacy



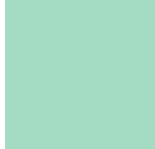
## Original Color

77.5221, 0.2673, 0.4200



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

62.8680, 0.2902, 0.3617

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.5221, 0.2673, 0.4200 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(97, 255, 184)` looks like.

```
.text, #text, p{  
    color:rgb(97, 255, 184)  
}
```

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(97, 255, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 255, 184) }
```

## Border

The CSS property to change the border of an element to Yxy 77.5221, 0.2673, 0.4200 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(97, 255, 184) }
```

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

```
.border{ border-color:rgb(97, 255, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 255, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 255, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 255, 184);  
box-shadow:4px 4px 4px 4px rgb(97, 255,  
184) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.5221, 0.2673, 0.4200 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 255, 184) }
```

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

```
.background{ background-color: rgb(97, 255,  
184) }
```

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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