

# Converting Colors

$Yxy(77.6844, 0.2704, 0.4235)$

Have a look what the booklet for  
Yxy(77.6844, 0.2704, 0.4235)  
contains.

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# Color

**Yxy(77.6810, 0.2704, 0.4237)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66FFB5
RGB	102, 255, 181
RGB Percent	40%, 100%, 71%
CMY	0.6001, 0.0000, 0.2903
CMYK	0.60, 0.00, 0.29, 0.00
HSL	151°, 100%, 70%
HSV	151°, 60%, 100%
XYZ	49.5750, 77.6810, 56.0836
YIQ	200.8170, -67.4340, -55.4500

# Conversions

## Conversions Part 2

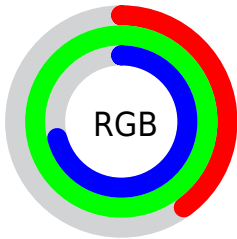
Format	Color
<a href="#">RYB</a>	<a href="#">102, 203, 255</a>
Decimal	<a href="#">6750133</a>
CIELab	<a href="#">90.63, -57.15, 23.53</a>
CIELCh	<a href="#">91, 61.804, 157.620</a>
Yxy	<a href="#">77.6810, 0.2704, 0.4237</a>
Android (android.graphics.Color)	<a href="#">4284940213 (0xFF66FFB5)</a>
YUV	<a href="#">200.8170, -9.7698, -86.6625</a>
Hunter-Lab	<a href="#">88.1368, -53.8371, 23.9681</a>

# Details

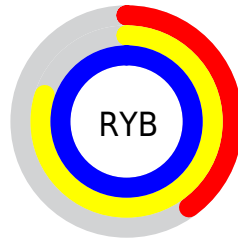
The Yxy color **77.6810, 0.2704, 0.4237** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **33.8909, 0.4063, 0.2558**, and the grayscale version is **58.3741, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.6338, 0.2713, 0.3490**, and **41.5766, 0.2590, 0.4481** is the 20% darker color. If you saturate the color by 10%, you get **75.9270, 0.2678, 0.4429**, and if you desaturate by 10%, it is **79.9323, 0.2748, 0.4050**.

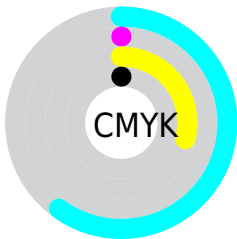
# Distribution



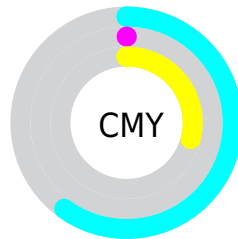
- Red (40%)
- Green (100%)
- Blue (71%)



- Red (40%)
- Yellow (80%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (29%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.6810, 0.2704, 0.4237 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 77.6810, 0.2704, 0.4237 by changing the saturation by 10% instead.





 77.6810, 0.2704,  
0.4237

 77.6810, 0.2704,  
0.4237


487.0828, 0.2911,  
0.3776

 57.8120, 0.2654,  
0.4348


 130.1003, 0.2778,  
0.4073

 41.6575, 0.2591,  
0.4487


 163.4194, 0.2806,  
0.4010

 28.8332, 0.2510,  
0.4668


 201.9907, 0.2830,  
0.3957

 18.9547, 0.2399,  
0.4912

246.1984, 0.2851,  
0.3910

 11.6375, 0.2244,  
0.5255

296.4271, 0.2869,  
0.3870

 6.4974, 0.2010,  
0.5768


353.0612, 0.2884,


 3.1498, 0.1628,


0.3835


0.6606


416.4849, 0.2898,  
0.3804


 1.2104, 0.0000,  
1.0000


 0.0702, 0.0000,  
1.0000

 77.6810, 0.2704,  
0.4237

 77.6810, 0.2704,  
0.4237


 75.9270, 0.2678,  
0.4429


 79.9323, 0.2748,  
0.4050


 74.6338, 0.2672,  
0.4621


 82.7284, 0.2807,  
0.3871

 73.7455, 0.2686,  
0.4808

 86.1015, 0.2878,  
0.3705

 73.1765, 0.2718,  
0.4985

 90.0839, 0.2957,  
0.3552

 94.7053, 0.3041,  
0.3414

99.9932, 0.3127,  
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.



77.6810, 0.3395, 0.4618



77.6810, 0.2704, 0.4237



77.6810, 0.2164, 0.3497

# Triad

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



77.6810, 0.2704, 0.4237



77.6810, 0.2187, 0.2182



77.6810, 0.4543, 0.3528

# Complementary

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



77.6810, 0.2704, 0.4237



33.8909, 0.4063, 0.2558

# 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.



77.6810, 0.4151, 0.3000



77.6810, 0.2704, 0.4237



77.6810, 0.2728, 0.2265

# Square

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



77.6810, 0.2704, 0.4237



77.6810, 0.1904, 0.2345



77.6810, 0.3452, 0.2555



77.6810, 0.4487, 0.4064



# Rectangle

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



77.6810, 0.2704, 0.4237



77.6810, 0.1950, 0.3002



77.6810, 0.3452, 0.2555



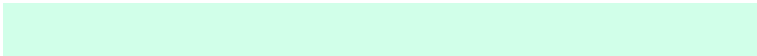
77.6810, 0.4460, 0.3348

# Sweetspot

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



77.6782, 0.2704, 0.4237



90.9615, 0.2973, 0.3523



82.0011, 0.3452, 0.4999



19.1996, 0.2949, 0.3565



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.



77.6782, 0.2704, 0.4237



75.6349, 0.2675, 0.4467



81.5630, 0.2390, 0.3288



20.3248, 0.3045, 0.3407



38.2666, 0.2710, 0.4956



3.7480, 0.2654, 0.4753



# Inverse Universe

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



33.8909, 0.4063, 0.2558



28.3629, 0.4359, 0.2478



31.7154, 0.5028, 0.3296



18.1335, 0.3218, 0.3176



11.8905, 0.5034, 0.2547

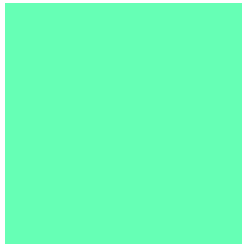


1.1797, 0.4770, 0.2402



# Previews

## White Background



This preview shows how the Yxy color 77.6810, 0.2704, 0.4237 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

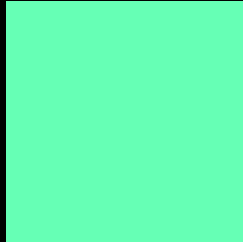
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.6810, 0.2704, 0.4237 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 77.6810, 0.2704, 0.4237**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.6810, 0.2704, 0.4237.

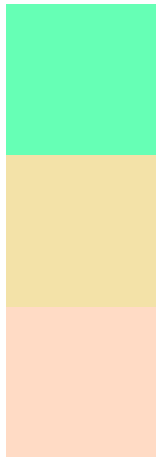


This preview shows how white text looks on a background with the Yxy color 77.6810, 0.2704, 0.4237.

# 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

77.6810, 0.2704, 0.4237

### Protanopia

76.2746, 0.3643, 0.3901

### Deuteranopia

75.9543, 0.3548, 0.3516



## Tritanopia

77.1172, 0.2586, 0.3120

# Trichromacy



## Original Color

77.6810, 0.2704, 0.4237



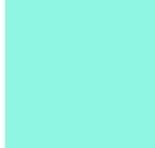
## Protanomaly

74.7920, 0.3216, 0.4039



## Deuteranomaly

73.6169, 0.3159, 0.3762



## Tritanomaly

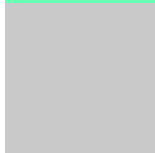
76.4817, 0.2623, 0.3491

# Monochromacy



## Original Color

77.6810, 0.2704, 0.4237



## Achromatopsia

58.4078, 0.3127, 0.3290



## Achromatomaly

63.6073, 0.2915, 0.3628

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.6810, 0.2704, 0.4237 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, 181)` looks like.

```
.text, #text, p{  
    color:rgb(102, 255, 181)  
}
```

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, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 255, 181) }
```

## Border

The CSS property to change the border of an element to Yxy 77.6810, 0.2704, 0.4237 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, 181) }
```

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

```
.border{ border-color:rgb(102, 255, 181) }
```

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, 181) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 255, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 255, 181);  
box-shadow:4px 4px 4px 4px rgb(102, 255,  
181) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.6810, 0.2704, 0.4237 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, 181) }
```

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

```
.background{ background-color: rgb(102,  
255, 181) }
```

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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