

# Converting Colors

$Yxy(77.4632, 0.2727, 0.4305)$

Have a look what the booklet for  
Yxy(77.4632, 0.2727, 0.4305)  
contains.

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# Color

**Yxy(77.4794, 0.2726, 0.4304)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66FFB0
RGB	102, 255, 176
RGB Percent	40%, 100%, 69%
CMY	0.6003, 0.0000, 0.3096
CMYK	0.60, 0.00, 0.31, 0.00
HSL	149°, 100%, 70%
HSV	149°, 60%, 100%
XYZ	49.0727, 77.4794, 53.4651
YIQ	200.2470, -65.8290, -57.0050

# Conversions

## Conversions Part 2

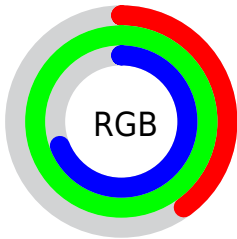
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">102, 205, 255</a>
Decimal	<a href="#">6750128</a>
CIELab	<a href="#">90.54, -58.12, 25.91</a>
CIELCh	<a href="#">91, 63.629, 155.973</a>
Yxy	<a href="#">77.4794, 0.2726, 0.4304</a>
Android (android.graphics.Color)	<a href="#">4284940208</a> ( <a href="#">0xFF66FFB0</a> )
YUV	<a href="#">200.2470, -11.9538, -86.1626</a>
Hunter-Lab	<a href="#">88.0224, -54.5250, 25.6027</a>

# Details

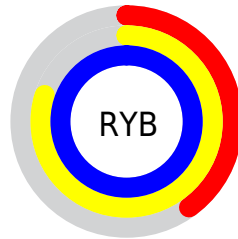
The Yxy color **77.4794, 0.2726, 0.4304** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **34.0790, 0.4001, 0.2510**, and the grayscale version is **58.0123, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.3455, 0.2737, 0.3548**, and **41.4481, 0.2615, 0.4573** is the 20% darker color. If you saturate the color by 10%, you get **75.7144, 0.2702, 0.4509**, and if you desaturate by 10%, it is **79.7474, 0.2767, 0.4103**.

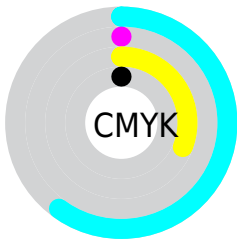
# Distribution



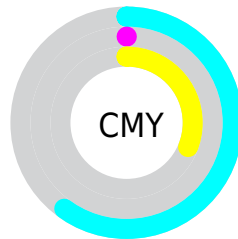
- Red (40%)
- Green (100%)
- Blue (69%)



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



- Cyan (60%)
- Magenta (0%)
- Yellow (31%)
- Black (0%)



- Cyan (60%)
- Magenta (0%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.4794, 0.2726, 0.4304 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 77.4794, 0.2726, 0.4304 by changing the saturation by 10% instead.




 77.4794, 0.2726,  
0.4304


 77.4794, 0.2726,  
0.4304


486.3970, 0.2925,  
0.3809

 57.6464, 0.2677,  
0.4423

 129.8160, 0.2798,  
0.4127

 41.5245, 0.2616,  
0.4574


 163.0884, 0.2825,  
0.4060

 28.7291, 0.2535,  
0.4769

 201.6094, 0.2848,  
0.4002

 18.8760, 0.2425,  
0.5032

245.7633, 0.2867,  
0.3953

 11.5807, 0.2268,  
0.5403

295.9347, 0.2885,  
0.3910

 6.4589, 0.2029,  
0.5957


352.5078, 0.2900,


 3.1261, 0.1638,


0.3872

0.6895

415.8671, 0.2913,  
0.3838

 1.1979, 0.0000,  
1.0000


 0.0600, 0.0000,  
1.0000


 77.4794, 0.2726,  
0.4304


 77.4794, 0.2726,  
0.4304

 75.7144, 0.2702,  
0.4509


 79.7474, 0.2767,  
0.4103

 74.4155, 0.2699,  
0.4713

 82.5658, 0.2823,  
0.3912

 73.5264, 0.2715,  
0.4910

 85.9674, 0.2890,  
0.3734

 72.9620, 0.2748,  
0.5094

 89.9845, 0.2965,  
0.3570

 94.6471, 0.3045,  
0.3423

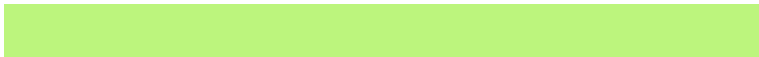
99.9830, 0.3127,  
0.3290

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.



77.4794, 0.3439, 0.4667



77.4794, 0.2726, 0.4304



77.4794, 0.2160, 0.3546

# Triad

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



77.4794, 0.2726, 0.4304



77.4794, 0.2139, 0.2156



77.4794, 0.4575, 0.3499

# Complementary

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



77.4794, 0.2726, 0.4304



34.0790, 0.4001, 0.2510

# 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.



77.4794, 0.4148, 0.2963



77.4794, 0.2726, 0.4304



77.4794, 0.2679, 0.2229

# Square

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



77.4794, 0.2726, 0.4304



77.4794, 0.1865, 0.2335



77.4794, 0.3417, 0.2515



77.4794, 0.4540, 0.4051



# Rectangle

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



77.4794, 0.2726, 0.4304



77.4794, 0.1932, 0.3029



77.4794, 0.3417, 0.2515



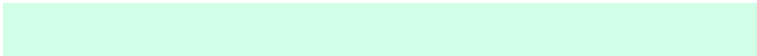
77.4794, 0.4481, 0.3315

# Sweetspot

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



77.4767, 0.2726, 0.4304



90.8778, 0.2981, 0.3539



82.3032, 0.3469, 0.4990



19.1793, 0.2959, 0.3584



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

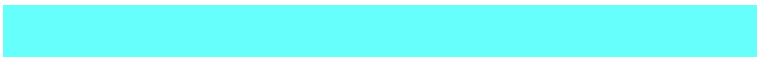
The Same Dimension uses a secret algorithm to generate beautiful new colors.



77.4767, 0.2726, 0.4304



75.4234, 0.2700, 0.4550



81.3971, 0.2400, 0.3318



20.3147, 0.3049, 0.3415



38.1541, 0.2740, 0.5064



3.7369, 0.2681, 0.4852



# Inverse Universe

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



34.0790, 0.4001, 0.2510



28.5743, 0.4273, 0.2422



31.7569, 0.4998, 0.3272



18.1435, 0.3213, 0.3168



12.0029, 0.4897, 0.2471

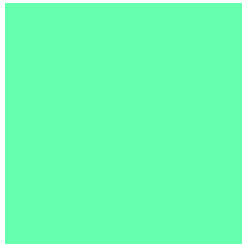


1.1908, 0.4652, 0.2336



# Previews

## White Background



This preview shows how the Yxy color 77.4794, 0.2726, 0.4304 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

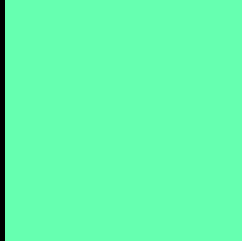
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.4794, 0.2726, 0.4304 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 77.4794, 0.2726, 0.4304**

## Background



This preview shows how black text looks on a background with the Yxy color 77.4794, 0.2726, 0.4304.



This preview shows how white text looks on a background with the Yxy color 77.4794, 0.2726, 0.4304.

# 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

77.4794, 0.2726, 0.4304

### Protanopia

76.0917, 0.3677, 0.3953

### Deuteranopia

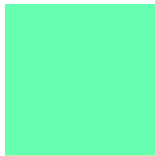
75.8181, 0.3570, 0.3547



## Tritanopia

77.0138, 0.2581, 0.3120

# Trichromacy



## Original Color

77.4794, 0.2726, 0.4304



## Protanomaly

74.6020, 0.3246, 0.4098



## Deuteranomaly

73.4432, 0.3184, 0.3810



## Tritanomaly

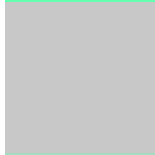
76.2848, 0.2628, 0.3516

# Monochromacy



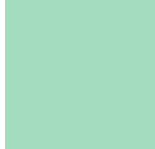
## Original Color

77.4794, 0.2726, 0.4304



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

62.8405, 0.2926, 0.3655

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.4794, 0.2726, 0.4304 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, 176)` looks like.

```
.text, #text, p{  
    color:rgb(102, 255, 176)  
}
```

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, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 255, 176) }
```

## Border

The CSS property to change the border of an element to Yxy 77.4794, 0.2726, 0.4304 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, 176) }
```

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

```
.border{ border-color:rgb(102, 255, 176) }
```

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, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 255, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 255, 176);  
box-shadow:4px 4px 4px 4px rgb(102, 255,  
176) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.4794, 0.2726, 0.4304 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, 176) }
```

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

```
.background{ background-color: rgb(102,  
255, 176) }
```

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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