

# Converting Colors

$Y_{xy}(100.0000, 0.2700, 0.4509)$

Have a look what the booklet for  
Yxy(100.0000, 0.2700, 0.4509)  
contains.

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# Color

**Yxy(77.0490, 0.2637, 0.4194)**

# Conversions

## Conversions Part 1

Format	Color
Hex	57FFB9
RGB	87, 255, 185
RGB Percent	34%, 100%, 73%
CMY	0.6590, 0.0000, 0.2745
CMYK	0.66, 0.00, 0.27, 0.00
HSL	155°, 100%, 67%
HSV	155°, 66%, 100%
XYZ	48.4450, 77.0490, 58.2185
YIQ	196.7880, -77.6580, -57.3860

# Conversions

## Conversions Part 2

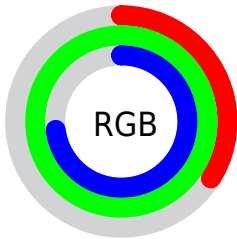
Format	Color
<a href="#">RYB</a>	<a href="#">87, 193, 255</a>
Decimal	<a href="#">5767097</a>
CIELab	<a href="#">90.34, -58.98, 21.02</a>
CIELCh	<a href="#">90, 62.616, 160.382</a>
Yxy	<a href="#">77.0490, 0.2637, 0.4194</a>
Android (android.graphics.Color)	<a href="#">4283957177 (0xFF57FFB9)</a>
YUV	<a href="#">196.7880, -5.8115, -96.2841</a>
Hunter-Lab	<a href="#">87.7776, -55.0955, 22.1202</a>

# Details

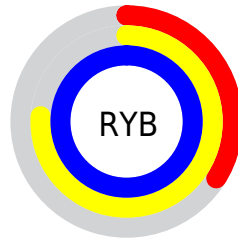
The Yxy color **77.0490, 0.2637, 0.4194** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light muted spring green. A complement of this color would be **30.5041, 0.4361, 0.2622**, and the grayscale version is **55.7646, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6432, 0.2638, 0.3447**, and **41.5984, 0.2559, 0.4411** is the 20% darker color. If you saturate the color by 10%, you get **75.5979, 0.2617, 0.4359**, and if you desaturate by 10%, it is **78.9640, 0.2676, 0.4032**.

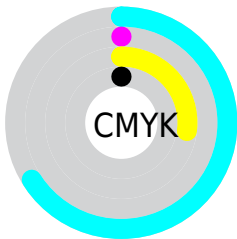
# Distribution



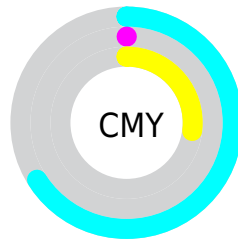
- Red (34%)
- Green (100%)
- Blue (73%)



- Red (34%)
- Yellow (76%)
- Blue (100%)



- Cyan (66%)
- Magenta (0%)
- Yellow (27%)
- Black (0%)




- Cyan (66%)
- Magenta (0%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.0490, 0.2637, 0.4194 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 77.0490, 0.2637, 0.4194 by changing the saturation by 10% instead.





 77.0490, 0.2637,  
0.4194

 77.0490, 0.2637,  
0.4194


484.9311, 0.2873,  
0.3754

 57.2931, 0.2581,  
0.4300

 129.2086, 0.2721,  
0.4037


 41.2406, 0.2511,  
0.4433

 162.3812, 0.2753,  
0.3978

 28.5071, 0.2420,  
0.4605


 200.7947, 0.2780,  
0.3927

 18.7083, 0.2299,  
0.4837

 244.8336, 0.2804,  
0.3883

 11.4597, 0.2130,  
0.5164

294.8823, 0.2824,  
0.3844

 6.3769, 0.1881,  
0.5655


351.3252, 0.2843,


 3.0756, 0.1473,


0.3811


0.6463


414.5467, 0.2859,  
0.3781


 1.1713, 0.0000,  
1.0000


 0.0381, 0.0000,  
1.0000

 77.0490, 0.2637,  
0.4194


 77.0490, 0.2637,  
0.4194


 75.5979, 0.2617,  
0.4359


 78.9640, 0.2676,  
0.4032


 74.5661, 0.2618,  
0.4523

 81.3888, 0.2733,  
0.3875

 73.8920, 0.2639,  
0.4682

 84.3590, 0.2804,  
0.3727

 73.6828, 0.2652,  
0.4746

 87.9080, 0.2886,  
0.3590

 92.0664, 0.2976,  
0.3465

 96.8627, 0.3070,  
0.3351

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.



77.0490, 0.3331, 0.4628



77.0490, 0.2637, 0.4194



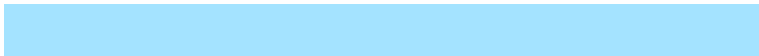
77.0490, 0.2112, 0.3426

# Triad

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



77.0490, 0.2637, 0.4194



77.0490, 0.2214, 0.2165



77.0490, 0.4579, 0.3580

# Complementary

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



77.0490, 0.2637, 0.4194



30.5041, 0.4361, 0.2622

# 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.



77.0490, 0.4220, 0.3042



77.0490, 0.2637, 0.4194



77.0490, 0.2783, 0.2270

# Square

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



77.0490, 0.2637, 0.4194



77.0490, 0.1903, 0.2304



77.0490, 0.3527, 0.2581



77.0490, 0.4480, 0.4120



# Rectangle

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



77.0490, 0.2637, 0.4194



77.0490, 0.1914, 0.2934



77.0490, 0.3527, 0.2581



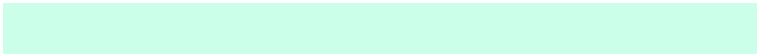
77.0490, 0.4509, 0.3397

# Sweetspot

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



77.0476, 0.2637, 0.4194



90.2838, 0.2938, 0.3515



79.3738, 0.3372, 0.5209



19.0762, 0.2913, 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.



77.0476, 0.2637, 0.4194



75.2353, 0.2615, 0.4410



72.1536, 0.2310, 0.3119



20.3460, 0.3036, 0.3391



38.5313, 0.2645, 0.4721



3.7735, 0.2595, 0.4540



# Inverse Universe

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



30.5041, 0.4361, 0.2622



25.6762, 0.4752, 0.2591



31.2491, 0.5209, 0.3419



18.1126, 0.3228, 0.3191



11.6831, 0.5316, 0.2702

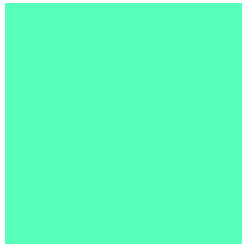


1.1587, 0.5021, 0.2540



# Previews

## White Background



This preview shows how the Yxy color 77.0490, 0.2637, 0.4194 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

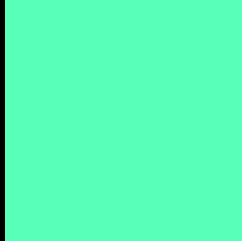
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.0490, 0.2637, 0.4194 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

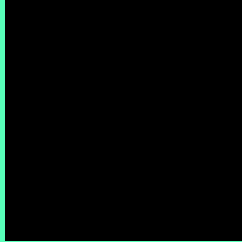
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.0490, 0.2637, 0.4194**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.0490, 0.2637, 0.4194.



This preview shows how white text looks on a background with the Yxy color 77.0490, 0.2637, 0.4194.

# 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

77.0490, 0.2637, 0.4194

### Protanopia

75.4915, 0.3610, 0.3863

### Deuteranopia

75.4340, 0.3550, 0.3506



## Tritanopia

76.5087, 0.2557, 0.3119

# Trichromacy



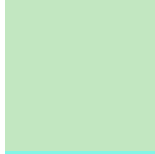
## Original Color

77.0490, 0.2637, 0.4194



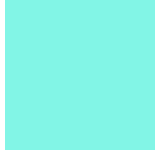
## Protanomaly

73.4398, 0.3152, 0.4003



## Deuteranomaly

72.4714, 0.3113, 0.3732



## Tritanomaly

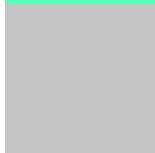
75.7638, 0.2570, 0.3469

# Monochromacy



## Original Color

77.0490, 0.2637, 0.4194



## Achromatopsia

55.8340, 0.3127, 0.3290



## Achromatomaly

61.1612, 0.2868, 0.3609

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.0490, 0.2637, 0.4194 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(87, 255, 185)` looks like.

```
.text, #text, p{  
    color:rgb(87, 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(87, 255, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 255, 185) }
```

## Border

The CSS property to change the border of an element to Yxy 77.0490, 0.2637, 0.4194 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(87, 255, 185) }
```

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

```
.border{ border-color:rgb(87, 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(87, 255, 185) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 255, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 255, 185);  
box-shadow:4px 4px 4px 4px rgb(87, 255,  
185) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.0490, 0.2637, 0.4194 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 255, 185) }
```

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

```
.background{ background-color: rgb(87, 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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