

# Converting Colors

$Y_{xy}(77.0087, 0.2619, 0.4157)$

Have a look what the booklet for  
Yxy(77.0087, 0.2619, 0.4157)  
contains.

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# Color

**Yxy(77.0821, 0.2618, 0.4154)**

# Conversions

## Conversions Part 1

Format	Color
Hex	55FFBC
RGB	85, 255, 188
RGB Percent	33%, 100%, 74%
CMY	0.6669, 0.0000, 0.2627
CMYK	0.67, 0.00, 0.26, 0.00
HSL	156°, 100%, 67%
HSV	156°, 67%, 100%
XYZ	48.5799, 77.0821, 59.8991
YIQ	196.5320, -79.8130, -56.8770

# Conversions

## Conversions Part 2

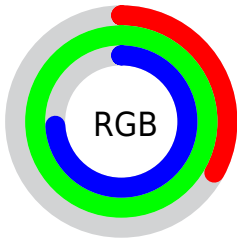
<b>Format</b>	<b>Color</b>
<b>RYB</b>	85, 191, 255
Decimal	5636028
CIELab	90.36, -58.68, 19.50
CIElCh	90, 61.832, 161.615
Yxy	77.0821, 0.2618, 0.4154
Android (android.graphics.Color)	4283826108 (0xFF55FFBC)
YUV	196.5320, -4.2063, -97.8136
Hunter-Lab	87.7964, -54.8753, 21.0069

# Details

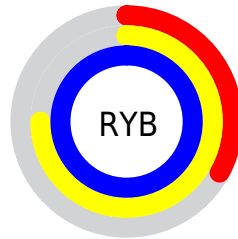
The Yxy color **77.0821, 0.2618, 0.4154** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light muted spring green. A complement of this color would be **30.0129, 0.4438, 0.2656**, and the grayscale version is **55.5893, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.7271, 0.2620, 0.3413**, and **41.6818, 0.2543, 0.4355** is the 20% darker color. If you saturate the color by 10%, you get **75.6764, 0.2598, 0.4310**, and if you desaturate by 10%, it is **78.9433, 0.2658, 0.4001**.

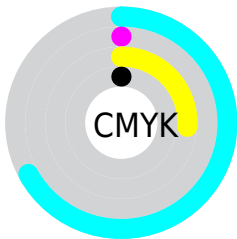
# Distribution



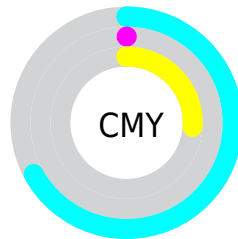
- Red (33%)
- Green (100%)
- Blue (74%)



- Red (33%)
- Yellow (75%)
- Blue (100%)



- Cyan (67%)
- Magenta (0%)
- Yellow (26%)
- Black (0%)




- Cyan (67%)
- Magenta (0%)
- Yellow (26%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.0821, 0.2618, 0.4154 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 77.0821, 0.2618, 0.4154 by changing the saturation by 10% instead.





 77.0821, 0.2618,  
0.4154

 77.0821, 0.2618,  
0.4154


485.0439, 0.2862,  
0.3735

 57.3203, 0.2561,  
0.4254


 129.2554, 0.2704,  
0.4005


 41.2624, 0.2489,  
0.4381


 162.4356, 0.2737,  
0.3948

 28.5242, 0.2397,  
0.4544


 200.8574, 0.2765,  
0.3899

 18.7212, 0.2274,  
0.4764

 244.9052, 0.2790,  
0.3857

 11.4690, 0.2104,  
0.5074

294.9633, 0.2811,  
0.3821

 6.3832, 0.1855,  
0.5539


351.4162, 0.2830,


 3.0795, 0.1453,


0.3789


0.6303

414.6483, 0.2847,  
0.3760

 1.1734, 0.0000,  
1.0000


 0.0398, 0.0000,  
1.0000

 77.0821, 0.2618,  
0.4154


 77.0821, 0.2618,  
0.4154


 75.6764, 0.2598,  
0.4310

 78.9433, 0.2658,  
0.4001

 74.6833, 0.2599,  
0.4464

 81.3085, 0.2715,  
0.3853

 74.0388, 0.2620,  
0.4615

 84.2128, 0.2788,  
0.3713

 73.8714, 0.2629,  
0.4664

 87.6897, 0.2871,  
0.3583

■ 91.7700, 0.2963,  
0.3464

■ 96.4821, 0.3061,  
0.3356

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.



77.0821, 0.3301, 0.4602



77.0821, 0.2618, 0.4154



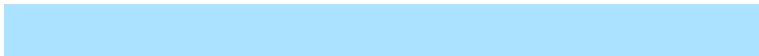
77.0821, 0.2108, 0.3393

# Triad

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



77.0821, 0.2618, 0.4154



77.0821, 0.2242, 0.2177



77.0821, 0.4566, 0.3601

# Complementary

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



77.0821, 0.2618, 0.4154



30.0129, 0.4438, 0.2656

# 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.



77.0821, 0.4229, 0.3067



77.0821, 0.2618, 0.4154



77.0821, 0.2815, 0.2290

# Square

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



77.0821, 0.2618, 0.4154



77.0821, 0.1923, 0.2305



77.0821, 0.3554, 0.2605



77.0821, 0.4452, 0.4133



# Rectangle

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



77.0821, 0.2618, 0.4154



77.0821, 0.1920, 0.2913



77.0821, 0.3554, 0.2605



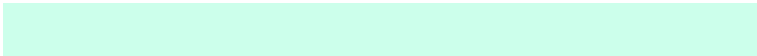
77.0821, 0.4503, 0.3419

# Sweetspot

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



77.0799, 0.2618, 0.4154



90.3503, 0.2932, 0.3502



78.9440, 0.3354, 0.5241



19.0922, 0.2906, 0.3536



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.



77.0799, 0.2618, 0.4154



75.3048, 0.2596, 0.4361



70.2944, 0.2296, 0.3082



20.3531, 0.3033, 0.3385



38.6296, 0.2622, 0.4639



3.7827, 0.2575, 0.4468



# Inverse Universe

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



30.0129, 0.4438, 0.2656



25.2762, 0.4856, 0.2637



31.4077, 0.5224, 0.3445



18.1056, 0.3232, 0.3197



11.6215, 0.5409, 0.2753

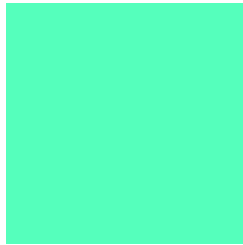


1.1523, 0.5105, 0.2586



# Previews

## White Background



This preview shows how the Yxy color 77.0821, 0.2618, 0.4154 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

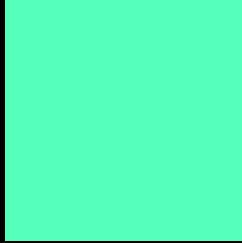
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.0821, 0.2618, 0.4154 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

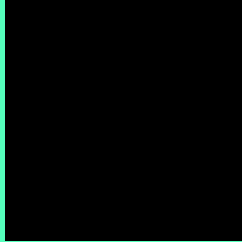
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.0821, 0.2618, 0.4154**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.0821, 0.2618, 0.4154.



This preview shows how white text looks on a background with the Yxy color 77.0821, 0.2618, 0.4154.

# 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

77.0821, 0.2618, 0.4154

### Protanopia

75.6072, 0.3590, 0.3831

### Deuteranopia

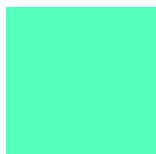
75.5263, 0.3535, 0.3485



## Tritanopia

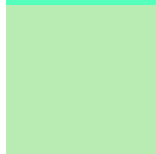
76.4102, 0.2552, 0.3119

# Trichromacy



## Original Color

77.0821, 0.2618, 0.4154



## Protanomaly

73.4359, 0.3128, 0.3967



## Deuteranomaly

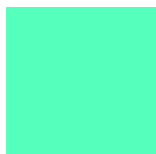
72.4294, 0.3094, 0.3709



## Tritanomaly

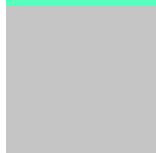
75.7415, 0.2561, 0.3456

# Monochromacy



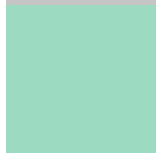
## Original Color

77.0821, 0.2618, 0.4154



## Achromatopsia

55.8340, 0.3127, 0.3290



## Achromatomaly

61.1058, 0.2856, 0.3597

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.0821, 0.2618, 0.4154 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(85, 255, 188)` looks like.

```
.text, #text, p{  
    color:rgb(85, 255, 188)  
}
```

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(85, 255, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 255, 188) }
```

## Border

The CSS property to change the border of an element to Yxy 77.0821, 0.2618, 0.4154 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(85, 255, 188) }
```

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

```
.border{ border-color:rgb(85, 255, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 255, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 255, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 255, 188);  
box-shadow:4px 4px 4px 4px rgb(85, 255,  
188) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.0821, 0.2618, 0.4154 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 255, 188) }
```

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

```
.background{ background-color: rgb(85, 255,  
188) }
```

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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