

# Converting Colors

$Y_{xy}(68.2199, 0.2521, 0.2950)$

Have a look what the booklet for  
Yxy(68.2199, 0.2521, 0.2950)  
contains.

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# Color

**Yxy(68.3850, 0.2522, 0.2954)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99E2FF
RGB	153, 226, 255
RGB Percent	60%, 89%, 100%
CMY	0.4000, 0.1137, 0.0000
CMYK	0.40, 0.11, 0.00, 0.00
HSL	197°, 100%, 80%
HSV	197°, 40%, 100%
XYZ	58.3842, 68.3850, 104.7304
YIQ	207.4790, -52.8170, -6.4570

# Conversions

## Conversions Part 2

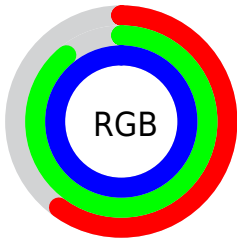
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	153, 196, 255
Decimal	10085119
CIE <sub>Lab</sub>	86.20, -15.48, -21.22
CIE <sub>LCh</sub>	86, 26.265, 233.892
Y <sub>xy</sub>	68.3850, 0.2522, 0.2954
Android (android.graphics.Color)	4288275199 (0xFF99E2FF)
Y <sub>UV</sub>	207.4790, 23.4279, -47.7781
Hunter-Lab	82.6952, -18.6926, -17.2019

# Details

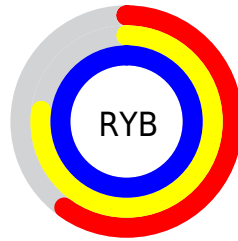
The Yxy color **68.3850, 0.2522, 0.2954** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **57.0198, 0.4019, 0.3597**, and the grayscale version is **62.5961, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.5889, 0.2866, 0.3289**, and **35.6898, 0.2385, 0.2878** is the 20% darker color. If you saturate the color by 10%, you get **62.3054, 0.2388, 0.2854**, and if you desaturate by 10%, it is **75.1666, 0.2666, 0.3049**.

# Distribution



- Red (60%)
- Green (89%)
- Blue (100%)



- Red (60%)
- Yellow (77%)
- Blue (100%)



- Cyan (40%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (40%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.3850, 0.2522, 0.2954 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 68.3850, 0.2522, 0.2954 by changing the saturation by 10% instead.




 68.3850, 0.2522,  
0.2954


 68.3850, 0.2522,  
0.2954


454.8589, 0.2798,  
0.3115

 50.2110, 0.2460,  
0.2916


 116.9027, 0.2617,  
0.3011

 35.5811, 0.2385,  
0.2869


 148.0153, 0.2654,  
0.3033

 24.1108, 0.2290,  
0.2808


184.2095, 0.2686,  
0.3052

 15.4159, 0.2169,  
0.2727

225.8697, 0.2714,  
0.3068

 9.1118, 0.2008,  
0.2616

273.3804, 0.2739,  
0.3082

 4.8142, 0.1787,  
0.2454

327.1259, 0.2761,

 2.1386, 0.1468,

0.3094

0.2202

387.4906, 0.2781,  
0.3105

0.6862, 0.0717,  
0.1793

0.0000, 0.0000,  
0.0000

68.3850, 0.2522,  
0.2954

68.3850, 0.2522,  
0.2954

62.3054, 0.2388,  
0.2854

75.1666, 0.2666,  
0.3049

56.8839, 0.2269,  
0.2749

82.6757, 0.2817,  
0.3137

52.0832, 0.2166,  
0.2641

90.9453, 0.2972,  
0.3217

47.8575, 0.2084,  
0.2532

100.0000, 0.3127,  
0.3290

■ 44.1527, 0.2021,  
0.2424

■ 40.8818, 0.1977,  
0.2317

■ 40.8804, 0.1977,  
0.2317

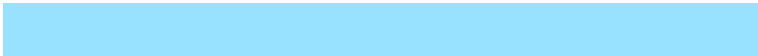
# Harmonies

## Analogous

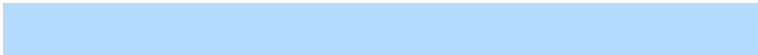
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



68.3850, 0.2590, 0.3224



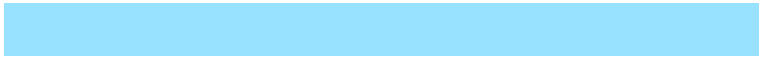
68.3850, 0.2522, 0.2954



68.3850, 0.2604, 0.2793

# Triad

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



68.3850, 0.2522, 0.2954



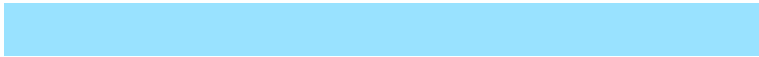
68.3850, 0.3454, 0.3057



68.3850, 0.3417, 0.3869

# Complementary

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



68.3850, 0.2522, 0.2954



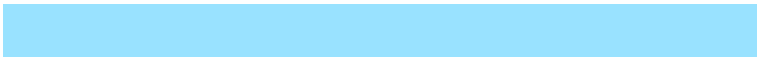
57.0198, 0.4019, 0.3597

# 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.



68.3850, 0.3667, 0.3786



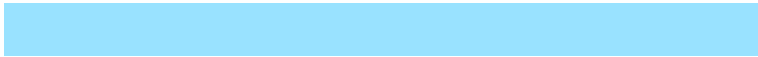
68.3850, 0.2522, 0.2954



68.3850, 0.3693, 0.3314

# Square

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



68.3850, 0.2522, 0.2954



68.3850, 0.3131, 0.2860



68.3850, 0.3772, 0.3578

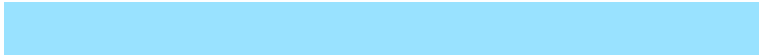


68.3850, 0.3098, 0.3779



# Rectangle

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



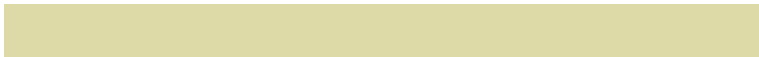
68.3850, 0.2522, 0.2954



68.3850, 0.2736, 0.2759



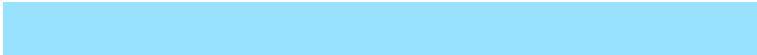
68.3850, 0.3772, 0.3578



68.3850, 0.3512, 0.3859

# Sweetspot

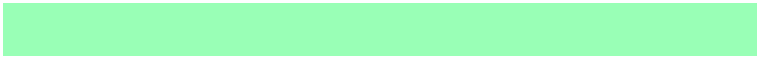
The Sweet Spot groups the original color and five complimentary colors.



68.3875, 0.2522, 0.2954



89.2254, 0.2941, 0.3202



81.6670, 0.2926, 0.4168



18.8616, 0.2921, 0.3191



0.0000, 0.0000, 0.0000

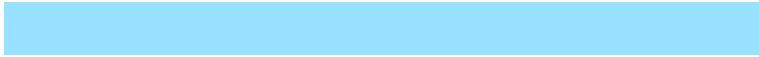


21.4041, 0.3127, 0.3290

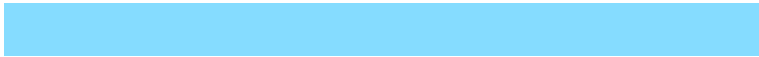


# Same Dimension

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



68.3875, 0.2522, 0.2954



63.4651, 0.2414, 0.2874



44.6958, 0.2424, 0.2328



19.5573, 0.2980, 0.3221



21.6281, 0.1982, 0.2335



2.2921, 0.2016, 0.2457



# Inverse Universe

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



49.5373, 0.3422, 0.2555



43.1036, 0.3502, 0.2415



81.7829, 0.3809, 0.4093



18.2071, 0.3182, 0.3121



12.9113, 0.4090, 0.2027

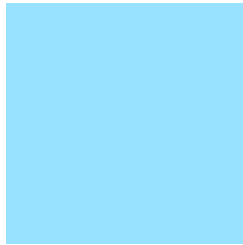


1.2759, 0.3965, 0.1958



# Previews

## White Background



This preview shows how the Yxy color 68.3850, 0.2522, 0.2954 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

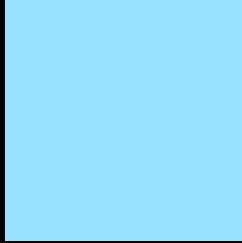
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.3850, 0.2522, 0.2954 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 68.3850, 0.2522, 0.2954**

## Background



This preview shows how black text looks on a background with the Yxy color 68.3850, 0.2522, 0.2954.



This preview shows how white text looks on a background with the Yxy color 68.3850, 0.2522, 0.2954.

# 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

68.3850, 0.2522, 0.2954

### Protanopia

67.7976, 0.2885, 0.2931

### Deuteranopia

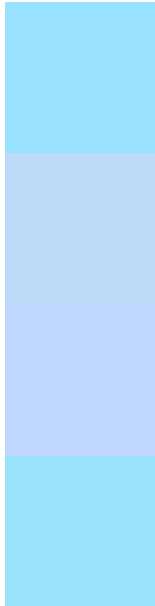
67.6093, 0.2862, 0.2812



## Tritanopia

68.7199, 0.2559, 0.3077

# Trichromacy



**Original Color**

68.3850, 0.2522, 0.2954

**Protanomaly**

67.8012, 0.2742, 0.2944

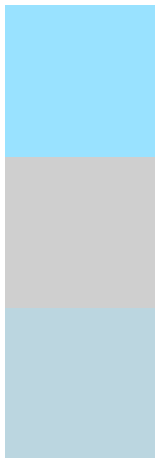
**Deuteranomaly**

67.5382, 0.2725, 0.2860

**Tritanomaly**

68.4531, 0.2548, 0.3032

# Monochromacy



**Original Color**

68.3850, 0.2522, 0.2954

**Achromatopsia**

62.3960, 0.3127, 0.3290

**Achromatomaly**

64.0397, 0.2873, 0.3172

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.3850, 0.2522, 0.2954 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(153, 226, 255)` looks like.

```
.text, #text, p{  
    color:rgb(153, 226, 255)  
}
```

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(153, 226, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 226, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.3850, 0.2522, 0.2954 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(153, 226, 255) }
```

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

```
.border{ border-color:rgb(153, 226, 255) }
```

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

Here you see how a box with a 4 pixel rgb(153, 226, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 226, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 226, 255);  
box-shadow:4px 4px 4px 4px rgb(153, 226,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.3850, 0.2522, 0.2954 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 226, 255) }
```

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

```
.background{ background-color: rgb(153,  
226, 255) }
```

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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