

# Converting Colors

$Y_{xy}(69.5996, 0.2571, 0.2947)$

Have a look what the booklet for  
Yxy(69.5996, 0.2571, 0.2947)  
contains.

<b>Yxy(69.5052, 0.2578, 0.2959)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(69.5052, 0.2578, 0.2959)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A4E2FF
RGB	164, 226, 255
RGB Percent	64%, 89%, 100%
CMY	0.3569, 0.1137, 0.0000
CMYK	0.36, 0.11, 0.00, 0.00
HSL	199°, 100%, 82%
HSV	199°, 36%, 100%
XYZ	60.5557, 69.5052, 104.8333
YIQ	210.7680, -46.2610, -4.1250

# Conversions

## Conversions Part 2

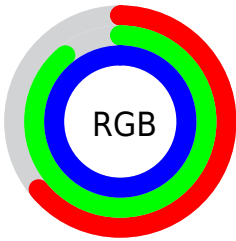
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 201, 255
Decimal	10806015
CIELab	86.75, -12.67, -20.33
CIELCh	87, 23.950, 238.075
Yxy	69.5052, 0.2578, 0.2959
Android (android.graphics.Color)	4288996095 (0xFFA4E2FF)
YUV	210.7680, 21.8064, -41.0155
Hunter-Lab	83.3698, -16.2434, -16.1953

# Details

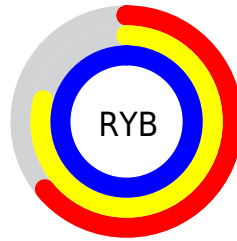
The Yxy color **69.5052, 0.2578, 0.2959** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **62.0781, 0.3881, 0.3595**, and the grayscale version is **64.8579, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.1122, 0.2923, 0.3289**, and **36.3912, 0.2453, 0.2885** is the 20% darker color. If you saturate the color by 10%, you get **62.7464, 0.2436, 0.2848**, and if you desaturate by 10%, it is **77.0224, 0.2728, 0.3063**.

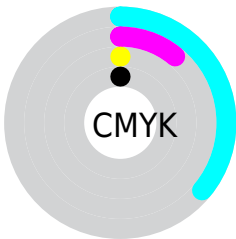
# Distribution



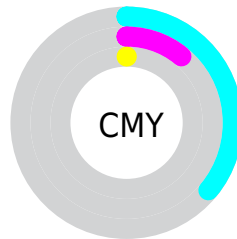
- Red (64%)
- Green (89%)
- Blue (100%)



- Red (64%)
- Yellow (79%)
- Blue (100%)



- Cyan (36%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (36%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.5052, 0.2578, 0.2959 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 69.5052, 0.2578, 0.2959 by changing the saturation by 10% instead.




 69.5052, 0.2578,  
0.2959

 69.5052, 0.2578,  
0.2959


458.8108, 0.2829,  
0.3116

 51.1233, 0.2522,  
0.2922


 118.5029, 0.2664,  
0.3014

 36.3067, 0.2453,  
0.2877

 149.8874, 0.2698,  
0.3036

 24.6712, 0.2367,  
0.2818


186.3749, 0.2727,  
0.3054

 15.8322, 0.2256,  
0.2741

228.3497, 0.2753,  
0.3070

 9.4055, 0.2109,  
0.2635

276.1963, 0.2775,  
0.3084

 5.0066, 0.1906,  
0.2482

330.2991, 0.2795,

 2.2511, 0.1609,

0.3096

0.2244

391.0425, 0.2813,  
0.3107

0.7477, 0.0998,  
0.1858

0.0000, 0.0000,  
0.0000

69.5052, 0.2578,  
0.2959

69.5052, 0.2578,  
0.2959

62.7464, 0.2436,  
0.2848

77.0224, 0.2728,  
0.3063

56.7028, 0.2305,  
0.2732

85.3230, 0.2883,  
0.3158

51.3378, 0.2190,  
0.2611

94.4403, 0.3039,  
0.3245

46.6075, 0.2093,  
0.2488

100.0000, 0.3127,  
0.3290

■ 42.4610, 0.2017,  
0.2364

■ 38.8360, 0.1962,  
0.2243

■ 37.3954, 0.1942,  
0.2192

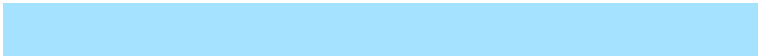
# Harmonies

## Analogous

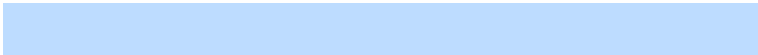
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



69.5052, 0.2622, 0.3194



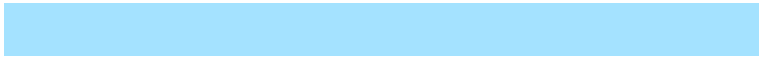
69.5052, 0.2578, 0.2959



69.5052, 0.2672, 0.2827

# Triad

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



69.5052, 0.2578, 0.2959



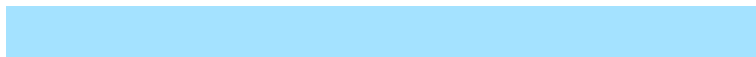
69.5052, 0.3460, 0.3109



69.5052, 0.3353, 0.3812

# Complementary

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



69.5052, 0.2578, 0.2959



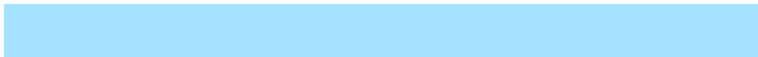
62.0781, 0.3881, 0.3595

# 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.



69.5052, 0.3593, 0.3759



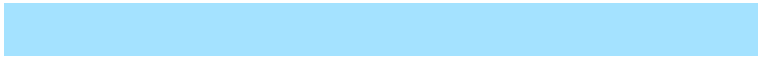
69.5052, 0.2578, 0.2959



69.5052, 0.3659, 0.3348

# Square

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



69.5052, 0.2578, 0.2959



69.5052, 0.3173, 0.2918



69.5052, 0.3708, 0.3585

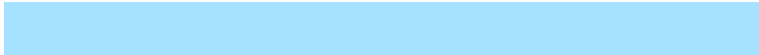


69.5052, 0.3061, 0.3708



# Rectangle

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



69.5052, 0.2578, 0.2959



69.5052, 0.2803, 0.2806



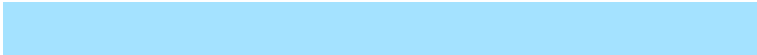
69.5052, 0.3708, 0.3585



69.5052, 0.3443, 0.3811

# Sweetspot

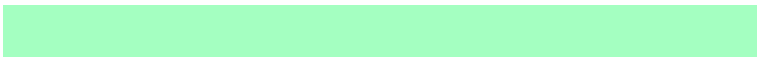
The Sweet Spot groups the original color and five complimentary colors.



69.5077, 0.2578, 0.2959



89.4923, 0.2956, 0.3200



83.2546, 0.2929, 0.4019



18.8929, 0.2935, 0.3188



0.0000, 0.0000, 0.0000

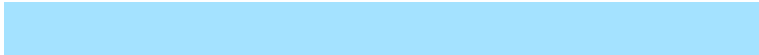


21.4041, 0.3127, 0.3290

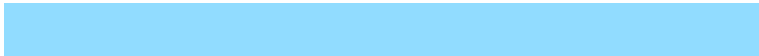


# Same Dimension

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



69.5077, 0.2578, 0.2959



64.4907, 0.2473, 0.2879



48.0315, 0.2502, 0.2412



19.4480, 0.2980, 0.3212



19.8210, 0.1948, 0.2212



2.1271, 0.1986, 0.2349



# Inverse Universe

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



53.3021, 0.3409, 0.2663



46.7885, 0.3487, 0.2536



85.2739, 0.3720, 0.4035



18.1961, 0.3187, 0.3129



12.7289, 0.4220, 0.2098

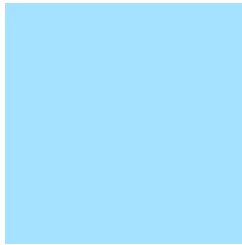


1.2593, 0.4075, 0.2019



# Previews

## White Background



This preview shows how the Yxy color 69.5052, 0.2578, 0.2959 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

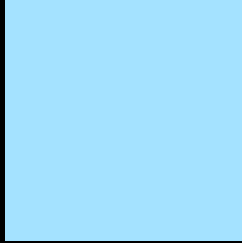
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.5052, 0.2578, 0.2959 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 69.5052, 0.2578, 0.2959**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.5052, 0.2578, 0.2959.

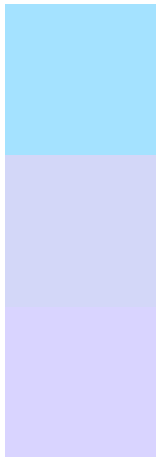


This preview shows how white text looks on a background with the Yxy color 69.5052, 0.2578, 0.2959.

# 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

69.5052, 0.2578, 0.2959

### Protanopia

69.2271, 0.2887, 0.2934

### Deuteranopia

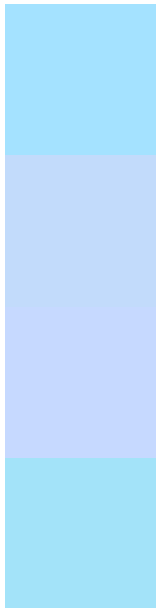
69.0587, 0.2883, 0.2836



## Tritanopia

69.8220, 0.2616, 0.3081

# Trichromacy



**Original Color**

69.5052, 0.2578, 0.2959

**Protanomaly**

69.0974, 0.2762, 0.2937

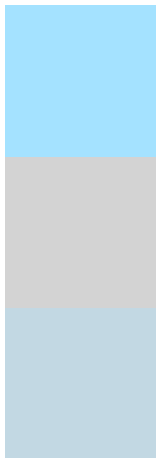
**Deuteranomaly**

68.8515, 0.2763, 0.2876

**Tritanomaly**

69.5643, 0.2604, 0.3036

# Monochromacy



**Original Color**

69.5052, 0.2578, 0.2959

**Achromatopsia**

65.1406, 0.3127, 0.3290

**Achromatomaly**

66.1271, 0.2902, 0.3163

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.5052, 0.2578, 0.2959 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(164, 226, 255)` looks like.

```
.text, #text, p{  
    color:rgb(164, 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(164, 226, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 226, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 69.5052, 0.2578, 0.2959 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(164, 226, 255) }
```

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

```
.border{ border-color:rgb(164, 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(164, 226, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 226, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 226, 255);  
box-shadow:4px 4px 4px 4px rgb(164, 226,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.5052, 0.2578, 0.2959 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 226, 255) }
```

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

```
.background{ background-color: rgb(164,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor