

# Converting Colors

$Y_{xy}(69.5268, 0.2556, 0.2970)$

Have a look what the booklet for  
Yxy(69.5268, 0.2556, 0.2970)  
contains.

<b>Yxy(69.5291, 0.2554, 0.2969)</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(69.5291, 0.2554, 0.2969)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9FE3FF
RGB	159, 227, 255
RGB Percent	62%, 89%, 100%
CMY	0.3765, 0.1098, 0.0001
CMYK	0.38, 0.11, 0.00, 0.00
HSL	197°, 100%, 81%
HSV	197°, 38%, 100%
XYZ	59.8105, 69.5291, 104.8440
YIQ	209.8600, -49.5160, -5.7080

# Conversions

## Conversions Part 2

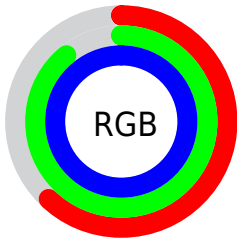
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	159, 199, 255
Decimal	10478591
CIE <sub>Lab</sub>	86.77, -14.49, -20.31
CIE <sub>LCh</sub>	87, 24.951, 234.503
Yxy	69.5291, 0.2554, 0.2969
Android (android.graphics.Color)	4288668671 (0xFF9FE3FF)
YUV	209.8600, 22.2540, -44.6042
Hunter-Lab	83.3841, -17.8862, -16.1801

# Details

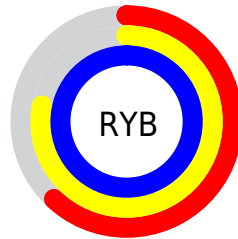
The Yxy color **69.5291, 0.2554, 0.2969** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **59.2733, 0.3947, 0.3585**, and the grayscale version is **64.2272, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.3389, 0.2894, 0.3289**, and **36.4658, 0.2426, 0.2897** is the 20% darker color. If you saturate the color by 10%, you get **63.2133, 0.2417, 0.2867**, and if you desaturate by 10%, it is **76.5631, 0.2701, 0.3065**.

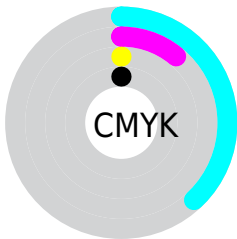
# Distribution



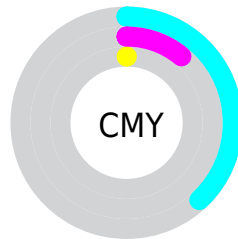
- Red (62%)
- Green (89%)
- Blue (100%)



- Red (62%)
- Yellow (78%)
- Blue (100%)



- Cyan (38%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (38%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.5291, 0.2554, 0.2969 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 69.5291, 0.2554, 0.2969 by changing the saturation by 10% instead.




 69.5291, 0.2554,  
0.2969

 69.5291, 0.2554,  
0.2969


458.8949, 0.2815,  
0.3123

 51.1427, 0.2496,  
0.2933


 118.5370, 0.2644,  
0.3023

 36.3222, 0.2424,  
0.2888


 149.9273, 0.2679,  
0.3044

 24.6831, 0.2335,  
0.2831


186.4210, 0.2709,  
0.3062

 15.8411, 0.2220,  
0.2755

228.4025, 0.2736,  
0.3077

 9.4118, 0.2068,  
0.2650

276.2563, 0.2759,  
0.3091

 5.0108, 0.1857,  
0.2498

330.3667, 0.2780,

 2.2536, 0.1553,

0.3103

0.2261

391.1181, 0.2799,  
0.3113

0.7490, 0.0899,  
0.1880

0.0000, 0.0000,  
0.0000

69.5291, 0.2554,  
0.2969

69.5291, 0.2554,  
0.2969

63.2133, 0.2417,  
0.2867

76.5631, 0.2701,  
0.3065

57.5720, 0.2293,  
0.2761

84.3398, 0.2853,  
0.3153

52.5688, 0.2185,  
0.2650

92.8920, 0.3009,  
0.3234

48.1594, 0.2096,  
0.2539

99.9977, 0.3127,  
0.3290

■ 44.2920, 0.2028,  
0.2427

■ 40.8986, 0.1980,  
0.2318

■ 40.1445, 0.1970,  
0.2292

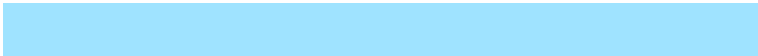
# Harmonies

## Analogous

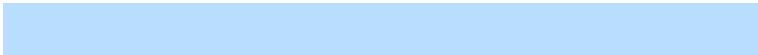
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



69.5291, 0.2616, 0.3223



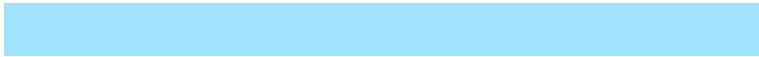
69.5291, 0.2554, 0.2969



69.5291, 0.2635, 0.2818

# Triad

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



69.5291, 0.2554, 0.2969



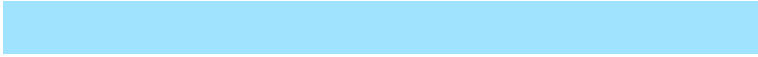
69.5291, 0.3441, 0.3074



69.5291, 0.3396, 0.3836

# Complementary

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



69.5291, 0.2554, 0.2969



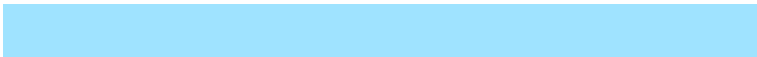
59.2733, 0.3947, 0.3585

# 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.



69.5291, 0.3634, 0.3762



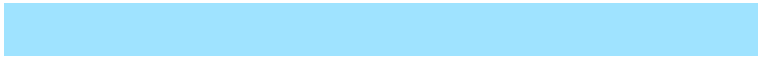
69.5291, 0.2554, 0.2969



69.5291, 0.3665, 0.3319

# Square

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



69.5291, 0.2554, 0.2969



69.5291, 0.3137, 0.2885



69.5291, 0.3735, 0.3568

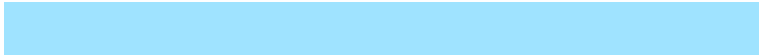


69.5291, 0.3094, 0.3747



# Rectangle

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



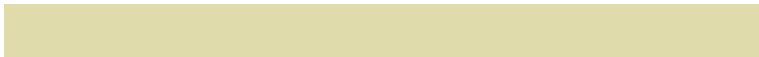
69.5291, 0.2554, 0.2969



69.5291, 0.2762, 0.2786



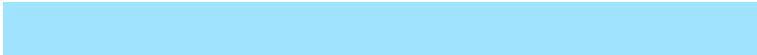
69.5291, 0.3735, 0.3568



69.5291, 0.3487, 0.3828

# Sweetspot

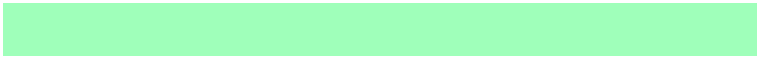
The Sweet Spot groups the original color and five complimentary colors.



69.5318, 0.2554, 0.2969



89.9604, 0.2956, 0.3207



82.4199, 0.2936, 0.4106



19.0048, 0.2935, 0.3196



0.0000, 0.0000, 0.0000

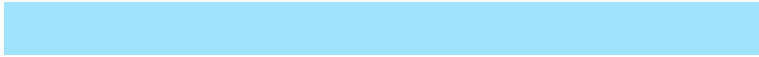


21.4041, 0.3127, 0.3290

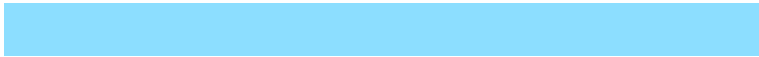


# Same Dimension

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



69.5318, 0.2554, 0.2969



64.8357, 0.2452, 0.2895



47.1438, 0.2469, 0.2395



19.5351, 0.2980, 0.3219



21.2534, 0.1975, 0.2310



2.2580, 0.2010, 0.2435



# Inverse Universe

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



51.5932, 0.3406, 0.2604



45.3406, 0.3479, 0.2473



82.6984, 0.3766, 0.4047



18.2049, 0.3183, 0.3123



12.8735, 0.4116, 0.2041

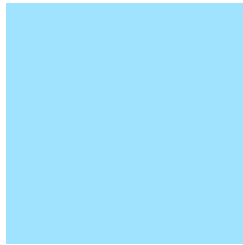


1.2725, 0.3987, 0.1970



# Previews

## White Background



This preview shows how the Yxy color 69.5291, 0.2554, 0.2969 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

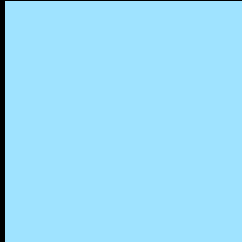
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.5291, 0.2554, 0.2969 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

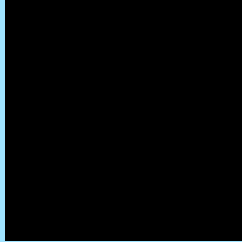
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.5291, 0.2554, 0.2969**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.5291, 0.2554, 0.2969.



This preview shows how white text looks on a background with the Yxy color 69.5291, 0.2554, 0.2969.

# 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

69.5291, 0.2554, 0.2969

### Protanopia

69.1652, 0.2893, 0.2945

### Deuteranopia

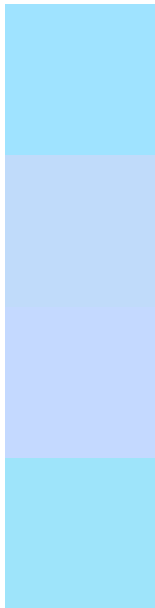
69.0587, 0.2883, 0.2836



## Tritanopia

69.3703, 0.2584, 0.3068

# Trichromacy



## Original Color

69.5291, 0.2554, 0.2969

## Protanomaly

68.7716, 0.2756, 0.2946

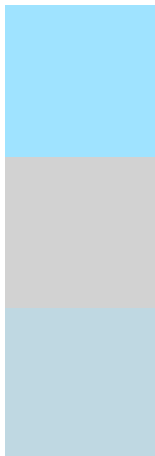
## Deuteranomaly

68.5815, 0.2751, 0.2874

## Tritanomaly

69.6580, 0.2575, 0.3035

# Monochromacy



## Original Color

69.5291, 0.2554, 0.2969

## Achromatopsia

64.4480, 0.3127, 0.3290

## Achromatomaly

65.6791, 0.2888, 0.3174

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.5291, 0.2554, 0.2969 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(159, 227, 255)` looks like.

```
.text, #text, p{  
    color:rgb(159, 227, 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(159, 227, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 227, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 69.5291, 0.2554, 0.2969 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(159, 227, 255) }
```

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

```
.border{ border-color:rgb(159, 227, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 227, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 227, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 227, 255);  
box-shadow:4px 4px 4px 4px rgb(159, 227,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.5291, 0.2554, 0.2969 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 227, 255) }
```

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

```
.background{ background-color: rgb(159,  
227, 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