

# Converting Colors

$Yxy(69.5873, 0.2492, 0.2993)$

Have a look what the booklet for  
Yxy(69.5873, 0.2492, 0.2993)  
contains.

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# Color

**Yxy(69.8334, 0.2492, 0.2999)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	91E6FF
RGB	145, 230, 255
RGB Percent	57%, 90%, 100%
CMY	0.4311, 0.0980, 0.0002
CMYK	0.43, 0.10, 0.00, 0.00
HSL	194°, 100%, 78%
HSV	194°, 43%, 100%
XYZ	58.0276, 69.8334, 104.9946
YIQ	207.4350, -58.6850, -10.2450

# Conversions

## Conversions Part 2

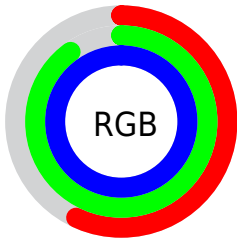
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">145, 193, 255</a>
Decimal	<a href="#">9561855</a>
CIELab	<a href="#">86.92, -19.43, -20.15</a>
CIELCh	<a href="#">87, 27.995, 226.037</a>
Yxy	<a href="#">69.8334, 0.2492, 0.2999</a>
Android (android.graphics.Color)	<a href="#">4287751935</a> ( <a href="#">0xFF91E6FF</a> )
YUV	<a href="#">207.4350, 23.4495, -54.7555</a>
Hunter-Lab	<a href="#">83.5664, -22.2926, -15.9968</a>

# Details

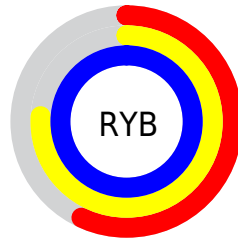
The Yxy color **69.8334, 0.2492, 0.2999** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **52.0625, 0.4146, 0.3555**, and the grayscale version is **62.5765, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.4365, 0.2822, 0.3289**, and **36.3756, 0.2349, 0.2921** is the 20% darker color. If you saturate the color by 10%, you get **64.6022, 0.2369, 0.2919**, and if you desaturate by 10%, it is **75.6969, 0.2628, 0.3075**.

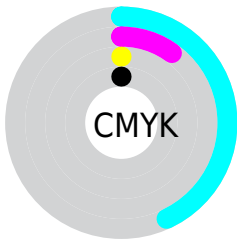
# Distribution



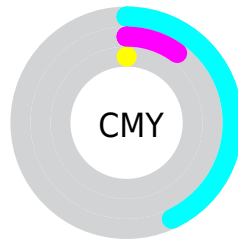
- Red (57%)
- Green (90%)
- Blue (100%)



- Red (57%)
- Yellow (76%)
- Blue (100%)



- Cyan (43%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (43%)
- Magenta (10%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.8334, 0.2492, 0.2999 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 69.8334, 0.2492, 0.2999 by changing the saturation by 10% instead.





 69.8334, 0.2492,  
0.2999

 69.8334, 0.2492,  
0.2999


459.9648, 0.2780,  
0.3140

 51.3907, 0.2428,  
0.2965

 118.9711, 0.2591,  
0.3049

 36.5197, 0.2349,  
0.2923


 150.4350, 0.2630,  
0.3068

 24.8358, 0.2252,  
0.2869


187.0080, 0.2663,  
0.3085

 15.9548, 0.2127,  
0.2797

229.0747, 0.2693,  
0.3099

 9.4922, 0.1962,  
0.2696

277.0193, 0.2718,  
0.3111

 5.0636, 0.1736,  
0.2548

331.2262, 0.2741,

 2.2846, 0.1414,

0.3122

0.2315

392.0799, 0.2762,  
0.3132

0.7655, 0.0648,  
0.1959

0.0000, 0.0000,  
0.0000

69.8334, 0.2492,  
0.2999

69.8334, 0.2492,  
0.2999

64.6022, 0.2369,  
0.2919

75.6969, 0.2628,  
0.3075

59.9589, 0.2263,  
0.2836

82.2175, 0.2773,  
0.3147

55.8658, 0.2175,  
0.2751

89.4282, 0.2924,  
0.3212

52.2759, 0.2107,  
0.2666

97.3574, 0.3079,  
0.3273

■ 49.1328, 0.2059,  
0.2582

99.9975, 0.3127,  
0.3290

■ 47.1684, 0.2035,  
0.2524

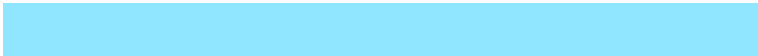
# Harmonies

## Analogous

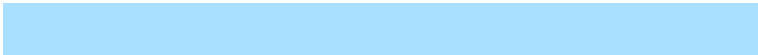
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



69.8334, 0.2604, 0.3305



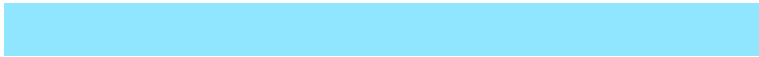
69.8334, 0.2492, 0.2999



69.8334, 0.2538, 0.2796

# Triad

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



69.8334, 0.2492, 0.2999



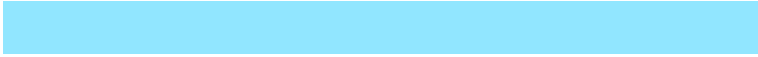
69.8334, 0.3387, 0.2982



69.8334, 0.3513, 0.3896

# Complementary

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



69.8334, 0.2492, 0.2999



52.0625, 0.4146, 0.3555

# 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.



69.8334, 0.3745, 0.3765



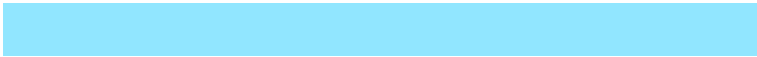
69.8334, 0.2492, 0.2999



69.8334, 0.3674, 0.3240

# Square

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



69.8334, 0.2492, 0.2999



69.8334, 0.3039, 0.2799



69.8334, 0.3807, 0.3522

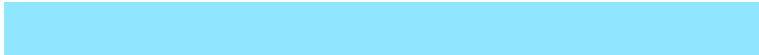


69.8334, 0.3185, 0.3853



# Rectangle

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



69.8334, 0.2492, 0.2999



69.8334, 0.2652, 0.2736



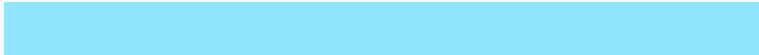
69.8334, 0.3807, 0.3522



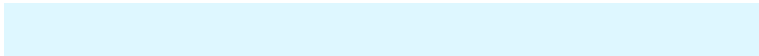
69.8334, 0.3605, 0.3870

# Sweetspot

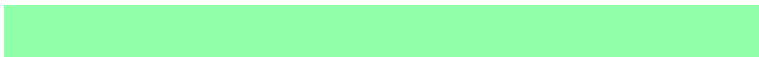
The Sweet Spot groups the original color and five complimentary colors.



69.8361, 0.2492, 0.2999



89.5348, 0.2926, 0.3213



80.3818, 0.2949, 0.4343



18.8100, 0.2892, 0.3199



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

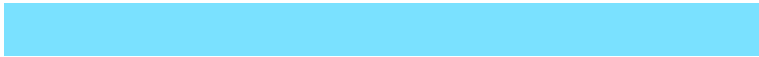


# Same Dimension

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



69.8361, 0.2492, 0.2999



65.1706, 0.2382, 0.2928



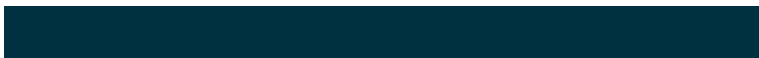
44.3762, 0.2379, 0.2330



19.7403, 0.2980, 0.3235



24.8906, 0.2038, 0.2538



2.5864, 0.2065, 0.2634



# Inverse Universe

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



47.2388, 0.3394, 0.2443



40.7070, 0.3468, 0.2283



76.5172, 0.3897, 0.4087



18.2256, 0.3173, 0.3108



13.2407, 0.3885, 0.1914

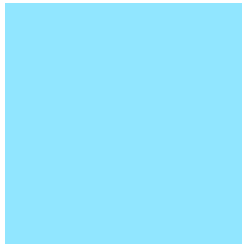


1.3056, 0.3791, 0.1862



# Previews

## White Background



This preview shows how the Yxy color 69.8334, 0.2492, 0.2999 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

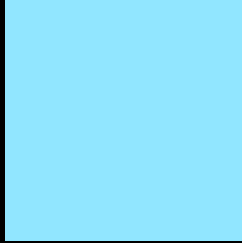
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.8334, 0.2492, 0.2999 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

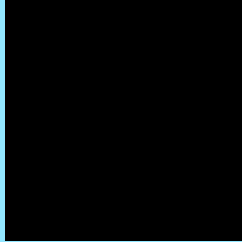
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.8334, 0.2492, 0.2999**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.8334, 0.2492, 0.2999.



This preview shows how white text looks on a background with the Yxy color 69.8334, 0.2492, 0.2999.

# 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

69.8334, 0.2492, 0.2999

### Protanopia

69.1905, 0.2912, 0.2966

### Deuteranopia

69.0587, 0.2883, 0.2836



## Tritanopia

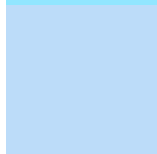
69.9207, 0.2517, 0.3077

# Trichromacy



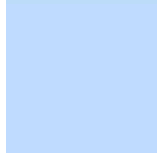
## Original Color

69.8334, 0.2492, 0.2999



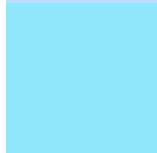
## Protanomaly

68.7173, 0.2738, 0.2966



## Deuteranomaly

68.9594, 0.2722, 0.2893



## Tritanomaly

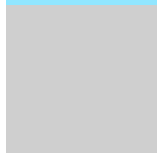
70.0462, 0.2507, 0.3055

# Monochromacy



## Original Color

69.8334, 0.2492, 0.2999



## Achromatopsia

62.3960, 0.3127, 0.3290



## Achromatomaly

64.1730, 0.2854, 0.3184

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.8334, 0.2492, 0.2999 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(145, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(145, 230, 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(145, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 69.8334, 0.2492, 0.2999 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(145, 230, 255) }
```

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

```
.border{ border-color:rgb(145, 230, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(145, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(145, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.8334, 0.2492, 0.2999 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 230, 255) }
```

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

```
.background{ background-color: rgb(145,  
230, 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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