

# Converting Colors

$Y_{xy}(68.5668, 0.2426, 0.2994)$

Have a look what the booklet for  
Yxy(68.5668, 0.2426, 0.2994)  
contains.

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# Color

**Yxy(68.5595, 0.2426, 0.2994)**

# Conversions

## Conversions Part 1

Format	Color
Hex	82E6FF
RGB	130, 230, 255
RGB Percent	51%, 90%, 100%
CMY	0.4900, 0.0980, 0.0002
CMYK	0.49, 0.10, 0.00, 0.00
HSL	192°, 100%, 75%
HSV	192°, 49%, 100%
XYZ	55.5529, 68.5595, 104.8773
YIQ	202.9500, -67.6250, -13.4250

# Conversions

## Conversions Part 2

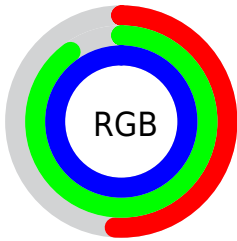
Format	Color
R <sub>Y</sub> B	130, 186, 255
Decimal	8578815
CIE Lab	86.29, -22.84, -21.16
CIE LCh	86, 31.135, 222.820
Yxy	68.5595, 0.2426, 0.2994
Android (android.graphics.Color)	4286768895 (0xFF82E6FF)
YUV	202.9500, 25.6607, -63.9771
Hunter-Lab	82.8007, -25.1414, -17.1376

# Details

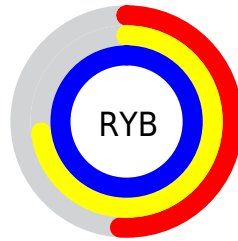
The Yxy color **68.5595, 0.2426, 0.2994** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **46.3122, 0.4371, 0.3552**, and the grayscale version is **59.5638, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.5588, 0.2747, 0.3289**, and **35.5783, 0.2269, 0.2913** is the 20% darker color. If you saturate the color by 10%, you get **63.9943, 0.2316, 0.2923**, and if you desaturate by 10%, it is **73.7122, 0.2551, 0.3063**.

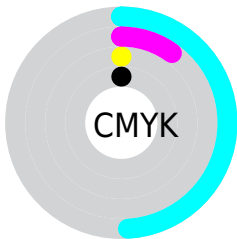
# Distribution



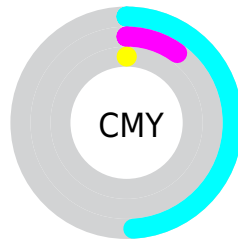
- Red (51%)
- Green (90%)
- Blue (100%)



- Red (51%)
- Yellow (73%)
- Blue (100%)



- Cyan (49%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (49%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.5595, 0.2426, 0.2994 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 68.5595, 0.2426, 0.2994 by changing the saturation by 10% instead.




 68.5595, 0.2426,  
0.2994

 68.5595, 0.2426,  
0.2994


455.4758, 0.2744,  
0.3140

 50.3530, 0.2355,  
0.2959


 117.1522, 0.2535,  
0.3046

 35.6940, 0.2269,  
0.2915


 148.3072, 0.2578,  
0.3066

 24.1980, 0.2162,  
0.2858


 184.5472, 0.2615,  
0.3083

 15.4805, 0.2025,  
0.2781

226.2566, 0.2647,  
0.3097

 9.1573, 0.1845,  
0.2674

273.8198, 0.2676,  
0.3110

 4.8439, 0.1600,  
0.2516

327.6211, 0.2701,

 2.1560, 0.1257,

0.3121

0.2264

388.0450, 0.2724,  
0.3131

0.6958, 0.0282,  
0.1891

0.0000, 0.0000,  
0.0000

68.5595, 0.2426,  
0.2994

68.5595, 0.2426,  
0.2994

63.9943, 0.2316,  
0.2923

73.7122, 0.2551,  
0.3063

59.9706, 0.2224,  
0.2849

79.4791, 0.2689,  
0.3128

56.4474, 0.2152,  
0.2775

85.8943, 0.2835,  
0.3188

53.3731, 0.2100,  
0.2702

92.9867, 0.2988,  
0.3244

■ 50.6720, 0.2065,  
0.2629

99.9974, 0.3127,  
0.3290

■ 50.4103, 0.2062,  
0.2622

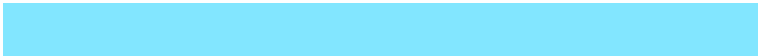
# Harmonies

## Analogous

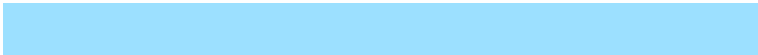
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



68.5595, 0.2567, 0.3345



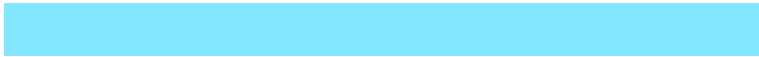
68.5595, 0.2426, 0.2994



68.5595, 0.2458, 0.2755

# Triad

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



68.5595, 0.2426, 0.2994



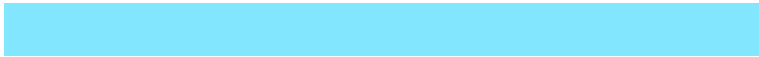
68.5595, 0.3376, 0.2920



68.5595, 0.3591, 0.3962

# Complementary

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



68.5595, 0.2426, 0.2994



46.3122, 0.4371, 0.3552

# 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.



68.5595, 0.3835, 0.3793



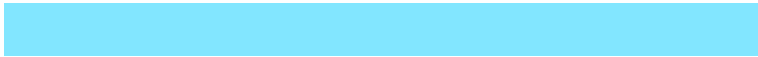
68.5595, 0.2426, 0.2994



68.5595, 0.3712, 0.3199

# Square

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



68.5595, 0.2426, 0.2994



68.5595, 0.2987, 0.2730



68.5595, 0.3883, 0.3511



68.5595, 0.3231, 0.3940



# Rectangle

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



68.5595, 0.2426, 0.2994



68.5595, 0.2573, 0.2679



68.5595, 0.3883, 0.3511



68.5595, 0.3690, 0.3923

# Sweetspot

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



68.5621, 0.2426, 0.2994



88.6736, 0.2896, 0.3211



78.5424, 0.2951, 0.4570



18.6661, 0.2864, 0.3199



0.0000, 0.0000, 0.0000

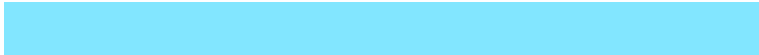


21.4041, 0.3127, 0.3290



# Same Dimension

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



68.5621, 0.2426, 0.2994



64.0132, 0.2316, 0.2923



40.5702, 0.2279, 0.2225



19.8285, 0.2980, 0.3241



26.5669, 0.2065, 0.2634



2.7360, 0.2088, 0.2717



# Inverse Universe

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



42.9454, 0.3409, 0.2306



36.7046, 0.3485, 0.2138



71.6733, 0.4035, 0.4152



18.2345, 0.3169, 0.3102



13.4099, 0.3791, 0.1862

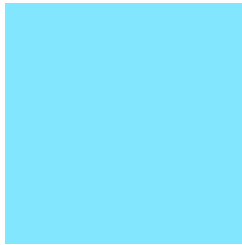


1.3207, 0.3712, 0.1818



# Previews

## White Background



This preview shows how the Yxy color 68.5595, 0.2426, 0.2994 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

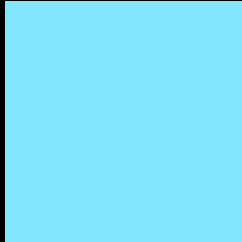
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.5595, 0.2426, 0.2994 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 68.5595, 0.2426, 0.2994**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.5595, 0.2426, 0.2994.

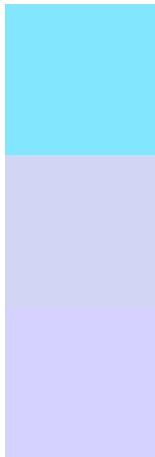


This preview shows how white text looks on a background with the Yxy color 68.5595, 0.2426, 0.2994.

# 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

68.5595, 0.2426, 0.2994

### Protanopia

67.8218, 0.2904, 0.2953

### Deuteranopia

67.6093, 0.2862, 0.2812



## Tritanopia

68.6431, 0.2441, 0.3062

# Trichromacy



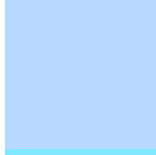
## Original Color

68.5595, 0.2426, 0.2994



## Protanomaly

67.2641, 0.2700, 0.2961



## Deuteranomaly

66.9130, 0.2672, 0.2865



## Tritanomaly

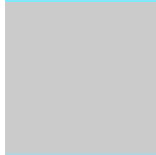
68.8472, 0.2437, 0.3039

# Monochromacy



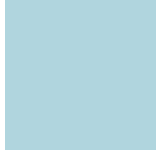
## Original Color

68.5595, 0.2426, 0.2994



## Achromatopsia

59.7202, 0.3127, 0.3290



## Achromatomaly

62.0925, 0.2812, 0.3181

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.5595, 0.2426, 0.2994 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(130, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(130, 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(130, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.5595, 0.2426, 0.2994 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(130, 230, 255) }
```

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

```
.border{ border-color:rgb(130, 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(130, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(130, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.5595, 0.2426, 0.2994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 230, 255) }
```

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

```
.background{ background-color: rgb(130,  
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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