

# Converting Colors

$Y_{xy}(73.8179, 0.2541, 0.2719)$

Have a look what the booklet for  
Yxy(73.8179, 0.2541, 0.2719)  
contains.

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# Color

**Yxy(71.8615, 0.2667, 0.2978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4E3FF
RGB	180, 227, 255
RGB Percent	71%, 89%, 100%
CMY	0.2938, 0.1099, 0.0000
CMYK	0.29, 0.11, 0.00, 0.00
HSL	202°, 100%, 85%
HSV	202°, 29%, 100%
XYZ	64.3568, 71.8615, 105.0896
YIQ	216.1390, -37.0000, -1.2560

# Conversions

## Conversions Part 2

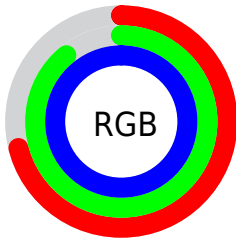
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 209, 255
Decimal	11854847
CIE <sub>Lab</sub>	87.90, -8.79, -18.51
CIE <sub>LCh</sub>	88, 20.492, 244.584
Y <sub>xy</sub>	71.8615, 0.2667, 0.2978
Android (android.graphics.Color)	4290044927 (0xFFB4E3FF)
YUV	216.1390, 19.1585, -31.6939
Hunter-Lab	84.7712, -12.8354, -14.1612

# Details

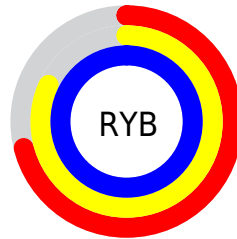
The Yxy color **71.8615, 0.2667, 0.2978** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **69.7215, 0.3702, 0.3581**, and the grayscale version is **68.6671, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.7445, 0.3017, 0.3290**, and **37.9422, 0.2563, 0.2911** is the 20% darker color. If you saturate the color by 10%, you get **64.0053, 0.2514, 0.2852**, and if you desaturate by 10%, it is **80.5748, 0.2824, 0.3094**.

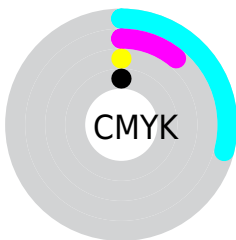
# Distribution



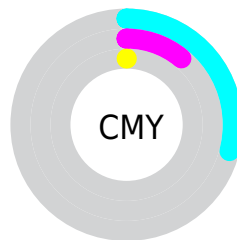
- Red (71%)
- Green (89%)
- Blue (100%)



- Red (71%)
- Yellow (82%)
- Blue (100%)



- Cyan (29%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (29%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.8615, 0.2667, 0.2978 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 71.8615, 0.2667, 0.2978 by changing the saturation by 10% instead.



71.8615, 0.2667,  
0.2978

71.8615, 0.2667,  
0.2978

467.0594, 0.2877,  
0.3124

53.0455, 0.2620,  
0.2944

121.8596, 0.2739,  
0.3029

37.8391, 0.2562,  
0.2902

153.8105, 0.2767,  
0.3049

25.8579, 0.2490,  
0.2849

190.9086, 0.2792,  
0.3066

16.7173, 0.2397,  
0.2780

233.5381, 0.2813,  
0.3081

10.0332, 0.2273,  
0.2685

282.0836, 0.2832,  
0.3094

5.4210, 0.2101,  
0.2549

336.9294, 0.2849,

2.4963, 0.1846,

0.3105

0.2340

398.4598, 0.2863,  
0.3115

0.8748, 0.1405,  
0.1993

0.0000, 0.0000,  
0.0000

71.8615, 0.2667,  
0.2978

71.8615, 0.2667,  
0.2978

64.0053, 0.2514,  
0.2852

80.5748, 0.2824,  
0.3094

56.9631, 0.2369,  
0.2718

90.1706, 0.2981,  
0.3200

50.6987, 0.2236,  
0.2577

100.0000, 0.3127,  
0.3290

45.1696, 0.2119,  
0.2431

■ 40.3276, 0.2021,  
0.2285

■ 36.1162, 0.1945,  
0.2140

■ 32.4517, 0.1889,  
0.1998

■ 32.2355, 0.1886,  
0.1990

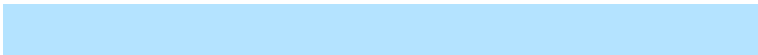
# Harmonies

## Analogous

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



71.8615, 0.2679, 0.3163



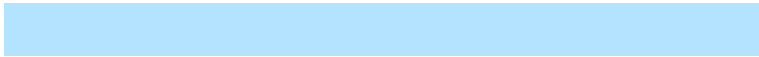
71.8615, 0.2667, 0.2978



71.8615, 0.2772, 0.2885

# Triad

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



71.8615, 0.2667, 0.2978



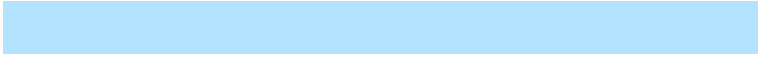
71.8615, 0.3454, 0.3179



71.8615, 0.3268, 0.3721

# Complementary

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



71.8615, 0.2667, 0.2978



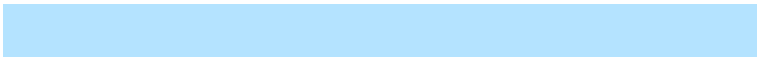
69.7215, 0.3702, 0.3581

# 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.



71.8615, 0.3485, 0.3707



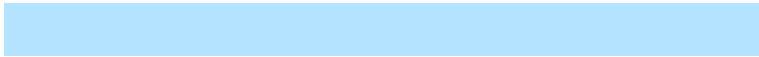
71.8615, 0.2667, 0.2978



71.8615, 0.3597, 0.3387

# Square

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



71.8615, 0.2667, 0.2978



71.8615, 0.3223, 0.3003



71.8615, 0.3608, 0.3581

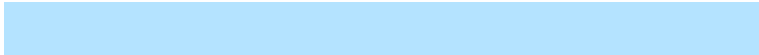


71.8615, 0.3019, 0.3605



# Rectangle

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



71.8615, 0.2667, 0.2978



71.8615, 0.2898, 0.2881



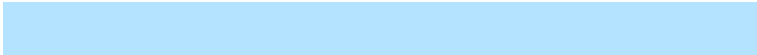
71.8615, 0.3608, 0.3581



71.8615, 0.3347, 0.3731

# Sweetspot

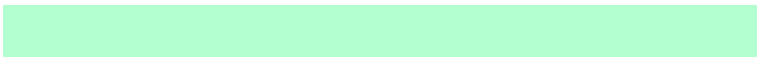
The Sweet Spot groups the original color and five complimentary colors.



71.8640, 0.2667, 0.2978



90.5498, 0.2987, 0.3204



85.7663, 0.2941, 0.3826



19.0694, 0.2965, 0.3189



0.0000, 0.0000, 0.0000

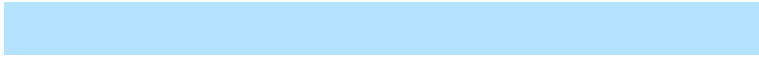


21.4041, 0.3127, 0.3290

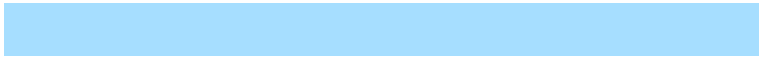


# Same Dimension

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



71.8640, 0.2667, 0.2978



67.3422, 0.2580, 0.2908



53.7945, 0.2620, 0.2547



19.2727, 0.2979, 0.3199



17.1399, 0.1893, 0.2013



1.8788, 0.1937, 0.2174



# Inverse Universe

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



59.4838, 0.3381, 0.2815



53.6953, 0.3445, 0.2722



89.8710, 0.3599, 0.3937



18.1784, 0.3196, 0.3142



12.4582, 0.4438, 0.2219

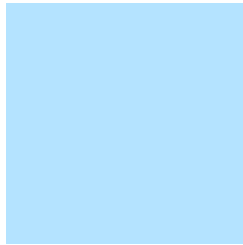


1.2342, 0.4260, 0.2120



# Previews

## White Background



This preview shows how the Yxy color 71.8615, 0.2667, 0.2978 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

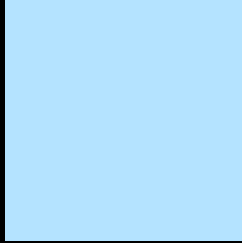
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.8615, 0.2667, 0.2978 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

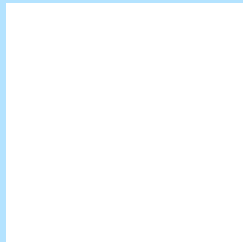
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 71.8615, 0.2667, 0.2978**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.8615, 0.2667, 0.2978.



This preview shows how white text looks on a background with the Yxy color 71.8615, 0.2667, 0.2978.

# 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

71.8615, 0.2667, 0.2978

### Protanopia

71.4294, 0.2909, 0.2960

### Deuteranopia

71.5089, 0.2925, 0.2873



## Tritanopia

71.6672, 0.2698, 0.3075

# Trichromacy



## Original Color

71.8615, 0.2667, 0.2978

## Protanomaly

71.2345, 0.2814, 0.2964

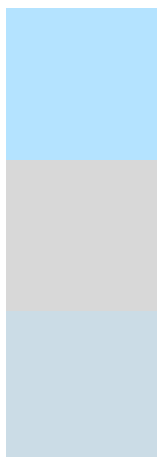
## Deuteranomaly

71.1484, 0.2821, 0.2904

## Tritanomaly

71.9726, 0.2688, 0.3043

# Monochromacy



## Original Color

71.8615, 0.2667, 0.2978

## Achromatopsia

68.6685, 0.3127, 0.3290

## Achromatomaly

69.5961, 0.2945, 0.3178

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.8615, 0.2667, 0.2978 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(180, 227, 255)` looks like.

```
.text, #text, p{  
    color:rgb(180, 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(180, 227, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 227, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 71.8615, 0.2667, 0.2978 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(180, 227, 255) }
```

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

```
.border{ border-color:rgb(180, 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(180, 227, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 227, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 227, 255);  
box-shadow:4px 4px 4px 4px rgb(180, 227,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.8615, 0.2667, 0.2978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 227, 255) }
```

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

```
.background{ background-color: rgb(180,  
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](#).

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