

# Converting Colors

$Y_{xy}(72.7673, 0.2637, 0.3009)$

Have a look what the booklet for  
Yxy(72.7673, 0.2637, 0.3009)  
contains.

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# Color

**Yxy(72.8123, 0.2637, 0.3010)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AEE6FF
RGB	174, 230, 255
RGB Percent	68%, 90%, 100%
CMY	0.3179, 0.0980, 0.0000
CMYK	0.32, 0.10, 0.00, 0.00
HSL	198°, 100%, 84%
HSV	198°, 32%, 100%
XYZ	63.7894, 72.8123, 105.2996
YIQ	216.1060, -41.4010, -4.0970

# Conversions

## Conversions Part 2

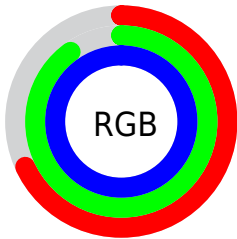
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 207, 255
Decimal	11462399
CIELab	88.36, -12.06, -17.85
CIElCh	88, 21.543, 235.971
Yxy	72.8123, 0.2637, 0.3010
Android (android.graphics.Color)	4289652479 (0xFFAEE6FF)
YUV	216.1060, 19.1747, -36.9270
Hunter-Lab	85.3301, -15.8883, -13.4344

# Details

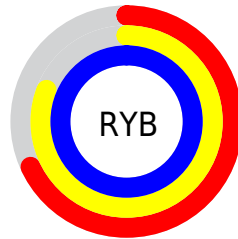
The Yxy color **72.8123, 0.2637, 0.3010** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **65.1161, 0.3779, 0.3552**, and the grayscale version is **68.6253, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.7289, 0.2982, 0.3290**, and **38.2713, 0.2528, 0.2937** is the 20% darker color. If you saturate the color by 10%, you get **65.8852, 0.2492, 0.2906**, and if you desaturate by 10%, it is **80.4979, 0.2789, 0.3107**.

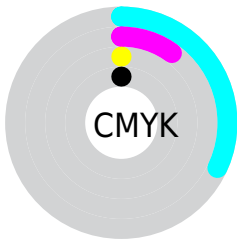
# Distribution



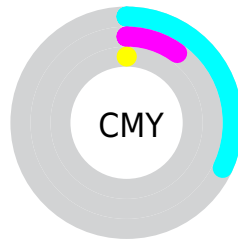
- Red (68%)
- Green (90%)
- Blue (100%)



- Red (68%)
- Yellow (81%)
- Blue (100%)



- Cyan (32%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (32%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.8123, 0.2637, 0.3010 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 72.8123, 0.2637, 0.3010 by changing the saturation by 10% instead.





 72.8123, 0.2637,  
0.3010

 72.8123, 0.2637,  
0.3010


470.3640, 0.2860,  
0.3142

 53.8225, 0.2587,  
0.2979


 123.2107, 0.2713,  
0.3056

 38.4598, 0.2527,  
0.2941


155.3881, 0.2743,  
0.3074

 26.3397, 0.2451,  
0.2893


192.7302, 0.2769,  
0.3090

 17.0780, 0.2353,  
0.2829

235.6213, 0.2792,  
0.3103

 10.2901, 0.2223,  
0.2741

284.4458, 0.2812,  
0.3115

 5.5917, 0.2044,  
0.2614

339.5882, 0.2830,

 2.5984, 0.1781,

0.3125

0.2417

401.4328, 0.2845,  
0.3134

0.9259, 0.1321,  
0.2091

0.0000, 0.0000,  
0.0000

72.8123, 0.2637,  
0.3010

72.8123, 0.2637,  
0.3010

65.8852, 0.2492,  
0.2906

80.4979, 0.2789,  
0.3107

59.6742, 0.2358,  
0.2795

88.9653, 0.2944,  
0.3196

54.1446, 0.2238,  
0.2680

98.2466, 0.3099,  
0.3276

49.2550, 0.2135,  
0.2562

100.0000, 0.3127,  
0.3290

■ 44.9578, 0.2052,  
0.2443

■ 41.1963, 0.1991,  
0.2325

■ 38.4408, 0.1953,  
0.2230

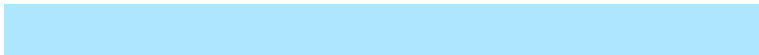
# Harmonies

## Analogous

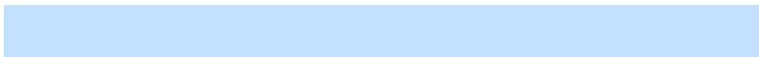
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



72.8123, 0.2685, 0.3224



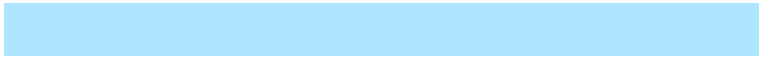
72.8123, 0.2637, 0.3010



72.8123, 0.2713, 0.2883

# Triad

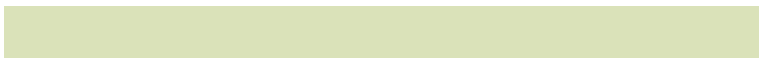
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



72.8123, 0.2637, 0.3010



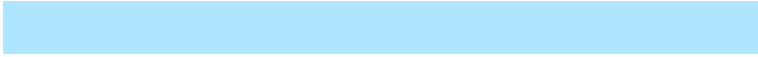
72.8123, 0.3406, 0.3115



72.8123, 0.3346, 0.3751

# Complementary

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



72.8123, 0.2637, 0.3010



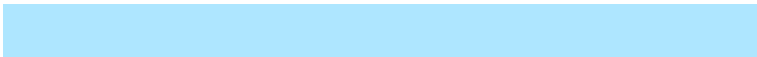
65.1161, 0.3779, 0.3552

# 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.



72.8123, 0.3551, 0.3699



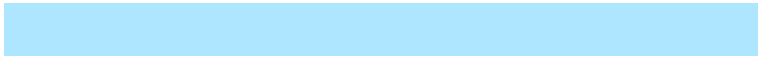
72.8123, 0.2637, 0.3010



72.8123, 0.3589, 0.3328

# Square

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



72.8123, 0.2637, 0.3010



72.8123, 0.3150, 0.2949



72.8123, 0.3643, 0.3540

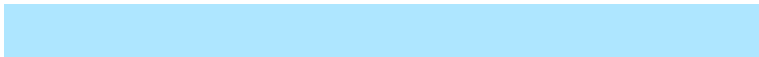


72.8123, 0.3088, 0.3668



# Rectangle

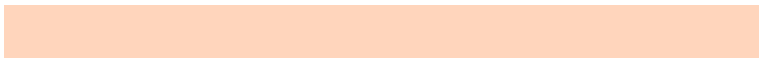
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



72.8123, 0.2637, 0.3010



72.8123, 0.2826, 0.2859



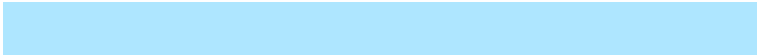
72.8123, 0.3643, 0.3540



72.8123, 0.3424, 0.3748

# Sweetspot

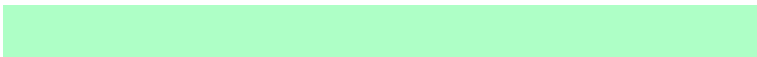
The Sweet Spot groups the original color and five complimentary colors.



72.8151, 0.2637, 0.3010



90.5696, 0.2972, 0.3211



84.5987, 0.2956, 0.3942



19.1161, 0.2950, 0.3199



0.0000, 0.0000, 0.0000

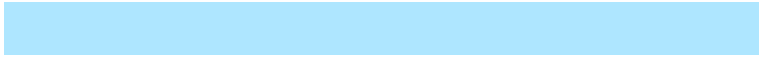


21.4041, 0.3127, 0.3290

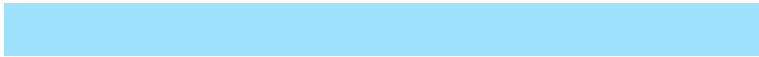


# Same Dimension

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



72.8151, 0.2637, 0.3010



68.4279, 0.2546, 0.2946



53.0978, 0.2580, 0.2540



19.4815, 0.2980, 0.3215



20.3634, 0.1958, 0.2250



2.1768, 0.1995, 0.2382



# Inverse Universe

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



57.2175, 0.3363, 0.2724



51.1920, 0.3424, 0.2612



85.9203, 0.3655, 0.3942



18.1995, 0.3185, 0.3127



12.7837, 0.4179, 0.2076

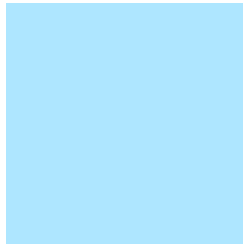


1.2643, 0.4041, 0.2000



# Previews

## White Background



This preview shows how the Yxy color 72.8123, 0.2637, 0.3010 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

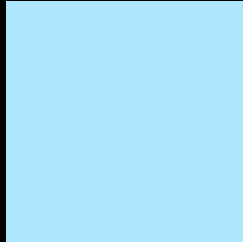
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.8123, 0.2637, 0.3010 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

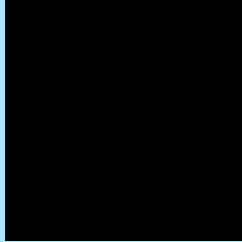
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.8123, 0.2637, 0.3010**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.8123, 0.2637, 0.3010.

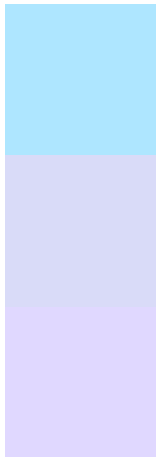


This preview shows how white text looks on a background with the Yxy color 72.8123, 0.2637, 0.3010.

# 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

72.8123, 0.2637, 0.3010

### Protanopia

72.1921, 0.2928, 0.2982

### Deuteranopia

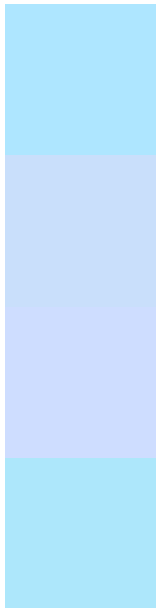
72.1790, 0.2932, 0.2885



## Tritanopia

72.8756, 0.2664, 0.3086

# Trichromacy



**Original Color**

72.8123, 0.2637, 0.3010

**Protanomaly**

72.1579, 0.2809, 0.2986

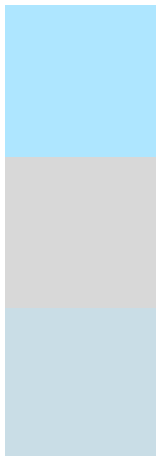
**Deuteranomaly**

72.0547, 0.2816, 0.2926

**Tritanomaly**

73.0011, 0.2654, 0.3064

# Monochromacy



**Original Color**

72.8123, 0.2637, 0.3010

**Achromatopsia**

68.6685, 0.3127, 0.3290

**Achromatomaly**

69.8436, 0.2932, 0.3189

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.8123, 0.2637, 0.3010 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(174, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(174, 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(174, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 72.8123, 0.2637, 0.3010 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(174, 230, 255) }
```

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

```
.border{ border-color:rgb(174, 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(174, 230, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(174, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.8123, 0.2637, 0.3010 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 230, 255) }
```

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

```
.background{ background-color: rgb(174,  
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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