

# Converting Colors

$Y_{xy}(78.5070, 0.2257, 0.2264)$

Have a look what the booklet for  
Yxy(78.5070, 0.2257, 0.2264)  
contains.

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# Color

**Yxy(71.9206, 0.2595, 0.3007)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6E6FF
RGB	166, 230, 255
RGB Percent	65%, 90%, 100%
CMY	0.3491, 0.0980, 0.0001
CMYK	0.35, 0.10, 0.00, 0.00
HSL	197°, 100%, 83%
HSV	197°, 35%, 100%
XYZ	62.0665, 71.9206, 105.1902
YIQ	213.7140, -46.1690, -5.7930

# Conversions

## Conversions Part 2

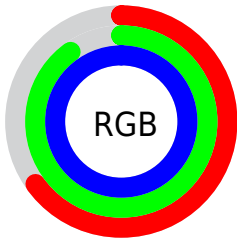
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">166, 203, 255</a>
Decimal	<a href="#">10938111</a>
CIELab	<a href="#">87.93, -14.19, -18.52</a>
CIELCh	<a href="#">88, 23.333, 232.547</a>
Yxy	<a href="#">71.9206, 0.2595, 0.3007</a>
Android (android.graphics.Color)	<a href="#">4289128191</a> ( <a href="#">0xFFA6E6FF</a> )
YUV	<a href="#">213.7140, 20.3540, -41.8452</a>
Hunter-Lab	<a href="#">84.8060, -17.7727, -14.1769</a>

# Details

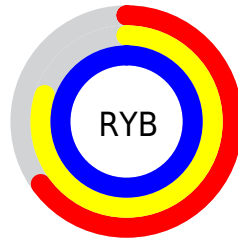
The Yxy color **71.9206, 0.2595, 0.3007** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **61.2464, 0.3872, 0.3554**, and the grayscale version is **66.9264, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.4280, 0.2935, 0.3289**, and **37.6643, 0.2473, 0.2932** is the 20% darker color. If you saturate the color by 10%, you get **65.5363, 0.2456, 0.2911**, and if you desaturate by 10%, it is **79.0201, 0.2743, 0.3097**.

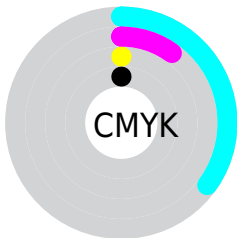
# Distribution



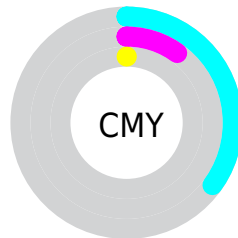
- Red (65%)
- Green (90%)
- Blue (100%)



- Red (65%)
- Yellow (80%)
- Blue (100%)



- Cyan (35%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (35%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.9206, 0.2595, 0.3007 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 71.9206, 0.2595, 0.3007 by changing the saturation by 10% instead.



 71.9206, 0.2595,  
0.3007

 71.9206, 0.2595,  
0.3007


467.2652, 0.2837,  
0.3142

 53.0938, 0.2541,  
0.2975

 121.9436, 0.2678,  
0.3054

 37.8777, 0.2475,  
0.2936

 153.9087, 0.2710,  
0.3073

 25.8878, 0.2393,  
0.2886


191.0219, 0.2739,  
0.3088

 16.7397, 0.2287,  
0.2820

233.6678, 0.2763,  
0.3102

 10.0491, 0.2147,  
0.2729

282.2307, 0.2785,  
0.3114

 5.4315, 0.1954,  
0.2597

337.0949, 0.2804,

 2.5026, 0.1672,

0.3124

0.2390

398.6450, 0.2821,  
0.3133

0.8779, 0.1142,  
0.2054

0.0000, 0.0000,  
0.0000

71.9206, 0.2595,  
0.3007

71.9206, 0.2595,  
0.3007

65.5363, 0.2456,  
0.2911

79.0201, 0.2743,  
0.3097

59.8243, 0.2329,  
0.2810

86.8579, 0.2896,  
0.3180

54.7495, 0.2218,  
0.2705

95.4663, 0.3051,  
0.3256

50.2696, 0.2126,  
0.2598

99.9979, 0.3127,  
0.3290

■ 46.3353, 0.2054,  
0.2490

■ 42.8865, 0.2002,  
0.2385

■ 41.2708, 0.1981,  
0.2331

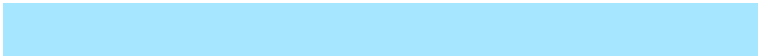
# Harmonies

## Analogous

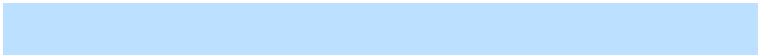
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



71.9206, 0.2662, 0.3247



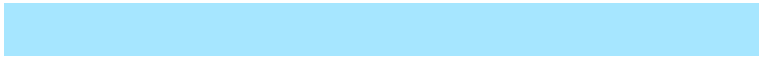
71.9206, 0.2595, 0.3007



71.9206, 0.2662, 0.2858

# Triad

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



71.9206, 0.2595, 0.3007



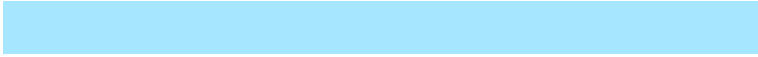
71.9206, 0.3401, 0.3077



71.9206, 0.3394, 0.3794

# Complementary

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



71.9206, 0.2595, 0.3007



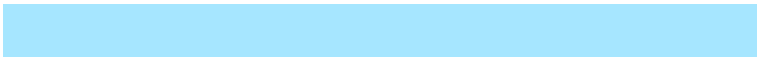
61.2464, 0.3872, 0.3554

# 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.



71.9206, 0.3607, 0.3719



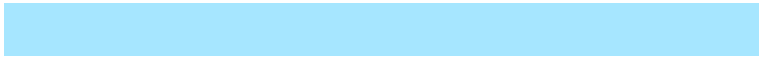
71.9206, 0.2595, 0.3007



71.9206, 0.3614, 0.3302

# Square

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



71.9206, 0.2595, 0.3007



71.9206, 0.3118, 0.2905



71.9206, 0.3690, 0.3535

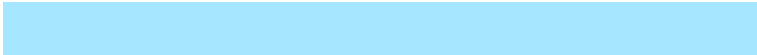


71.9206, 0.3116, 0.3721



# Rectangle

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



71.9206, 0.2595, 0.3007



71.9206, 0.2775, 0.2823



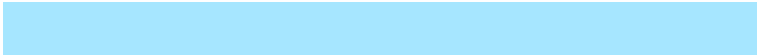
71.9206, 0.3690, 0.3535



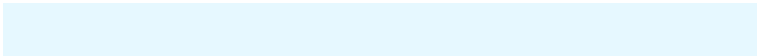
71.9206, 0.3476, 0.3784

# Sweetspot

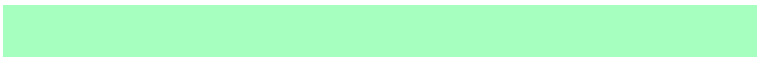
The Sweet Spot groups the original color and five complimentary colors.



71.9234, 0.2595, 0.3007



91.0013, 0.2972, 0.3218



83.3110, 0.2956, 0.4054



19.2209, 0.2950, 0.3207



0.0000, 0.0000, 0.0000

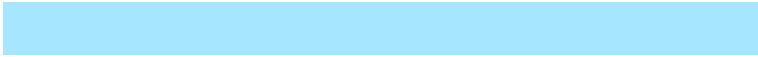


21.4041, 0.3127, 0.3290

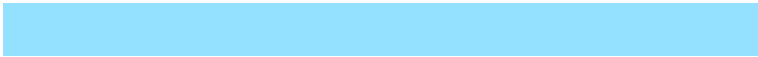


# Same Dimension

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



71.9234, 0.2595, 0.3007



67.3347, 0.2495, 0.2939



50.7600, 0.2525, 0.2489



19.5695, 0.2980, 0.3222



21.8364, 0.1986, 0.2349



2.3110, 0.2019, 0.2469



# Inverse Universe

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



54.2372, 0.3372, 0.2645



47.8424, 0.3438, 0.2515



82.9702, 0.3720, 0.3978



18.2083, 0.3181, 0.3121



12.9324, 0.4076, 0.2019

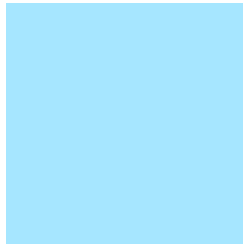


1.2778, 0.3953, 0.1952



# Previews

## White Background



This preview shows how the Yxy color 71.9206, 0.2595, 0.3007 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

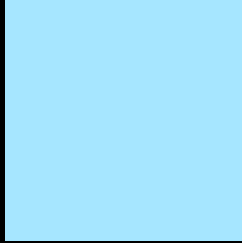
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.9206, 0.2595, 0.3007 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

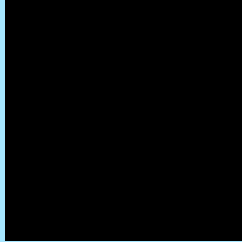
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 71.9206, 0.2595, 0.3007**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.9206, 0.2595, 0.3007.



This preview shows how white text looks on a background with the Yxy color 71.9206, 0.2595, 0.3007.

# 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

71.9206, 0.2595, 0.3007

### Protanopia

71.3053, 0.2921, 0.2980

### Deuteranopia

71.3505, 0.2918, 0.2873



## Tritanopia

71.9907, 0.2621, 0.3083

# Trichromacy



**Original Color**

71.9206, 0.2595, 0.3007

**Protanomaly**

71.0150, 0.2789, 0.2983

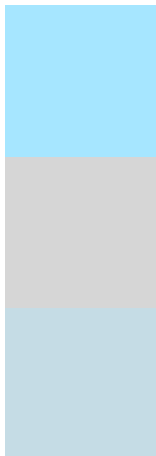
**Deuteranomaly**

70.9630, 0.2791, 0.2912

**Tritanomaly**

72.1162, 0.2611, 0.3061

# Monochromacy



**Original Color**

71.9206, 0.2595, 0.3007

**Achromatopsia**

67.2443, 0.3127, 0.3290

**Achromatomaly**

68.7139, 0.2912, 0.3188

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.9206, 0.2595, 0.3007 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(166, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(166, 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(166, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 71.9206, 0.2595, 0.3007 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(166, 230, 255) }
```

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

```
.border{ border-color:rgb(166, 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(166, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(166, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.9206, 0.2595, 0.3007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 230, 255) }
```

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

```
.background{ background-color: rgb(166,  
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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