

# Converting Colors

$Y_{xy}(59.8020, 0.2272, 0.2901)$

Have a look what the booklet for  
Yxy(59.8020, 0.2272, 0.2901)  
contains.

<b>Yxy(59.7388, 0.2271, 0.2899)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(59.7388, 0.2271, 0.2899)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5ADBFA
RGB	90, 219, 250
RGB Percent	35%, 86%, 98%
CMY	0.6475, 0.1411, 0.0195
CMYK	0.64, 0.12, 0.00, 0.02
HSL	192°, 94%, 67%
HSV	192°, 64%, 98%
XYZ	46.7978, 59.7388, 99.5303
YIQ	183.9630, -86.8350, -17.7070

# Conversions

## Conversions Part 2

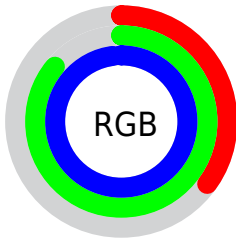
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	90, 161, 250
Decimal	5954554
CIE <sub>Lab</sub>	81.70, -26.28, -25.66
CIE <sub>LCh</sub>	82, 36.732, 224.312
Yxy	59.7388, 0.2271, 0.2899
Android (android.graphics.Color)	4284144634 (0xFF5ADBFA)
YUV	183.9630, 32.5562, -82.4056
Hunter-Lab	77.2909, -27.1815, -22.2463

# Details

The Yxy color **59.7388, 0.2271, 0.2899** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **34.7166, 0.4978, 0.3593**, and the grayscale version is **47.7494, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.7086, 0.2583, 0.3288**, and **30.4012, 0.2112, 0.2804** is the 20% darker color. If you saturate the color by 10%, you get **56.2025, 0.2190, 0.2828**, and if you desaturate by 10%, it is **63.7743, 0.2371, 0.2969**.

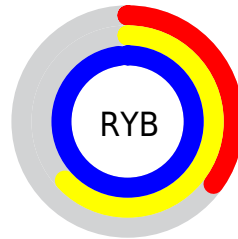
# Distribution



Red (35%)

Green (86%)

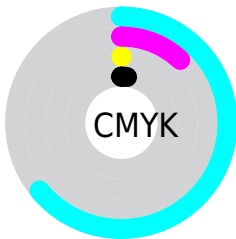
Blue (98%)



Red (35%)

Yellow (63%)

Blue (98%)

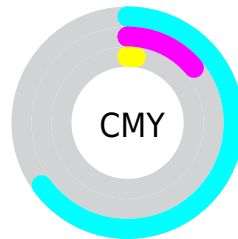


Cyan (64%)

Magenta (12%)

Yellow (0%)

Black (2%)



Cyan (65%)

Magenta (14%)


Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.7388, 0.2271, 0.2899 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 59.7388, 0.2271, 0.2899 by changing the saturation by 10% instead.




 59.7388, 0.2271,  
0.2899

 59.7388, 0.2271,  
0.2899

423.6343, 0.2665,  
0.3096

 43.2081, 0.2182,  
0.2850

 104.4507, 0.2407,  
0.2970


 30.0485, 0.2074,  
0.2789


 133.4007, 0.2460,  
0.2997

 19.8754, 0.1939,  
0.2708

 167.2592, 0.2506,  
0.3020

 12.3045, 0.1767,  
0.2599

 206.4107, 0.2546,  
0.3040

 6.9514, 0.1542,  
0.2445

251.2396, 0.2581,  
0.3057

 3.4317, 0.1240,  
0.2215

302.1302, 0.2612,

 1.3611, 0.0803,

0.3072

0.1856

359.4670, 0.2640,  
0.3085

0.1878, 0.0000,  
0.0722

0.0000, 0.0000,  
0.0000

59.7388, 0.2271,  
0.2899

59.7388, 0.2271,  
0.2899

56.2025, 0.2190,  
0.2828

63.7743, 0.2371,  
0.2969

53.1139, 0.2128,  
0.2757

68.3411, 0.2488,  
0.3037

50.4205, 0.2086,  
0.2686

73.4758, 0.2619,  
0.3102

48.9588, 0.2068,  
0.2644

79.2099, 0.2761,  
0.3162

85.5719, 0.2910,  
0.3219

92.5888, 0.3064,  
0.3270

98.3584, 0.3157,  
0.3318

99.6840, 0.3156,  
0.3337

# Harmonies

## Analogous

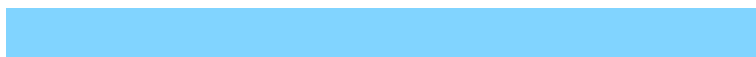
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



59.7388, 0.2428, 0.3329



59.7388, 0.2271, 0.2899



59.7388, 0.2320, 0.2622

# Triad

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



59.7388, 0.2271, 0.2899



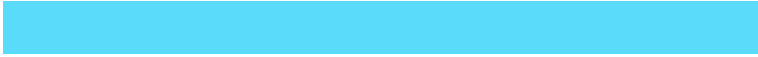
59.7388, 0.3455, 0.2854



59.7388, 0.3672, 0.4125

# Complementary

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



59.7388, 0.2271, 0.2899



34.7166, 0.4978, 0.3593

# 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.



59.7388, 0.3988, 0.3912



59.7388, 0.2271, 0.2899



59.7388, 0.3868, 0.3190

# Square

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



59.7388, 0.2271, 0.2899



59.7388, 0.2973, 0.2620



59.7388, 0.4066, 0.3568



59.7388, 0.3224, 0.4096



# Rectangle

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



59.7388, 0.2271, 0.2899



59.7388, 0.2464, 0.2542



59.7388, 0.4066, 0.3568



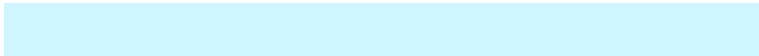
59.7388, 0.3798, 0.4076

# Sweetspot

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



59.7410, 0.2271, 0.2899



86.0988, 0.2835, 0.3191



71.8955, 0.2922, 0.5033



18.0267, 0.2793, 0.3175



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.



59.7410, 0.2271, 0.2899



57.7492, 0.2169, 0.2806



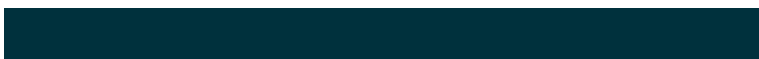
28.0028, 0.2019, 0.1828



19.0036, 0.2980, 0.3243



26.1667, 0.2071, 0.2656



2.5648, 0.2095, 0.2740



# Inverse Universe

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



32.7373, 0.3514, 0.2059



29.3602, 0.3614, 0.1918



62.0586, 0.4344, 0.4364



17.4635, 0.3168, 0.3101



13.0525, 0.3770, 0.1851

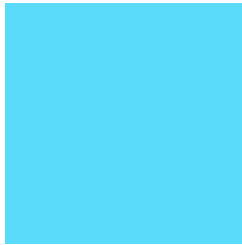


1.2231, 0.3690, 0.1807



# Previews

## White Background



This preview shows how the Yxy color 59.7388, 0.2271, 0.2899 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

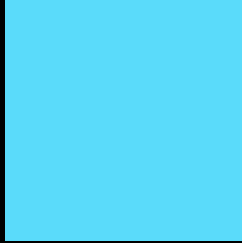
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 59.7388, 0.2271, 0.2899 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 59.7388, 0.2271, 0.2899**

## **Background**



This preview shows how black text looks on a background with the Yxy color 59.7388, 0.2271, 0.2899.

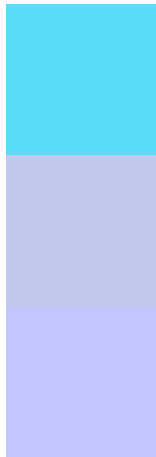


This preview shows how white text looks on a background with the Yxy color 59.7388, 0.2271, 0.2899.

# 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

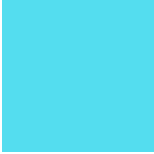
59.7388, 0.2271, 0.2899

### Protanopia

58.8923, 0.2832, 0.2866

### Deuteranopia

59.0775, 0.2720, 0.2656



## **Tritanopia**

59.8297, 0.2304, 0.3056

# Trichromacy



## Original Color

59.7388, 0.2271, 0.2899



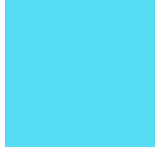
## Protanomaly

58.1044, 0.2569, 0.2867



## Deuteranomaly

58.3024, 0.2510, 0.2735



## Tritanomaly

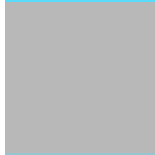
59.6359, 0.2290, 0.2995

# Monochromacy



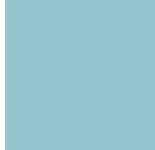
## Original Color

59.7388, 0.2271, 0.2899



## Achromatopsia

47.9320, 0.3127, 0.3290



## Achromatomaly

50.9706, 0.2710, 0.3144

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 59.7388, 0.2271, 0.2899 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(90, 219, 250)` looks like.

```
.text, #text, p{  
    color:rgb(90, 219, 250)  
}
```

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(90, 219, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 219, 250) }
```

## Border

The CSS property to change the border of an element to Yxy 59.7388, 0.2271, 0.2899 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(90, 219, 250) }
```

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

```
.border{ border-color:rgb(90, 219, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 219, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 219, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 219, 250);  
box-shadow:4px 4px 4px 4px rgb(90, 219,  
250) }
```



# Background

The CSS property to change the background color of an element to Yxy 59.7388, 0.2271, 0.2899 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 219, 250) }
```

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

```
.background{ background-color: rgb(90, 219,  
250) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor