

# Converting Colors

$Y_{xy}(49.5993, 0.2097, 0.2584)$

Have a look what the booklet for  
Yxy(49.5993, 0.2097, 0.2584)  
contains.

<b>Yxy(49.6971, 0.2098, 0.2587)</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(49.6971, 0.2098, 0.2587)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33C9FF
RGB	51, 201, 255
RGB Percent	20%, 79%, 100%
CMY	0.8002, 0.2118, 0.0000
CMYK	0.80, 0.21, 0.00, 0.00
HSL	196°, 100%, 60%
HSV	196°, 80%, 100%
XYZ	40.3033, 49.6971, 102.1029
YIQ	162.3060, -106.7340, -15.0060

# Conversions

## Conversions Part 2

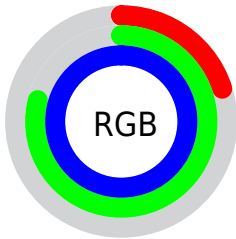
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 137, 255
Decimal	3394047
CIE <sub>Lab</sub>	75.88, -20.41, -37.34
CIE <sub>LCh</sub>	76, 42.554, 241.341
Yxy	49.6971, 0.2098, 0.2587
Android (android.graphics.Color)	4281584127 (0xFF33C9FF)
YUV	162.3060, 45.6981, -97.6154
Hunter-Lab	70.4962, -21.3183, -36.5251

# Details

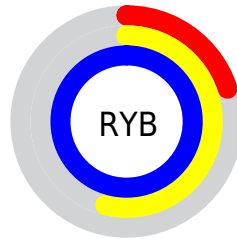
The Yxy color **49.6971, 0.2098, 0.2587** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **31.5902, 0.5501, 0.3707**, and the grayscale version is **36.0938, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4071, 0.2478, 0.3288**, and **24.9447, 0.2008, 0.2428** is the 20% darker color. If you saturate the color by 10%, you get **46.1292, 0.2039, 0.2487**, and if you desaturate by 10%, it is **53.7648, 0.2178, 0.2688**.

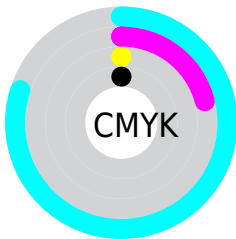
# Distribution



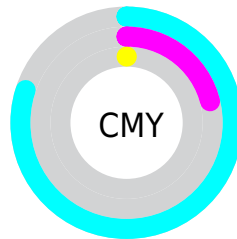
- Red (20%)
- Green (79%)
- Blue (100%)



- Red (20%)
- Yellow (54%)
- Blue (100%)



- Cyan (80%)
- Magenta (21%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (21%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6971, 0.2098, 0.2587 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 49.6971, 0.2098, 0.2587 by changing the saturation by 10% instead.





 49.6971, 0.2098,  
0.2587


 49.6971, 0.2098,  
0.2587

385.4802, 0.2580,  
0.2938

 35.1728, 0.1989,  
0.2502


 89.7259, 0.2265,  
0.2713


 23.7960, 0.1856,  
0.2396


 115.9992, 0.2330,  
0.2761

 15.1824, 0.1691,  
0.2259


 146.9576, 0.2386,  
0.2801

 8.9475, 0.1482,  
0.2077

 182.9856, 0.2435,  
0.2836

 4.7069, 0.1214,  
0.1830

224.4674, 0.2478,  
0.2867

 2.0764, 0.0870,  
0.1483

271.7875, 0.2516,

 0.6513, 0.0185,

0.2893

0.0997

325.3303, 0.2549,  
0.2917

■ 0.0000, 0.0000,  
0.0000

■ 49.6971, 0.2098,  
0.2587

■ 49.6971, 0.2098,  
0.2587

■ 46.1292, 0.2039,  
0.2487

■ 53.7648, 0.2178,  
0.2688

■ 42.9820, 0.1997,  
0.2389

■ 58.3872, 0.2277,  
0.2788

■ 63.6092, 0.2394,  
0.2885

■ 69.4705, 0.2525,  
0.2978

■ 76.0067, 0.2668,  
0.3065

■ 83.2507, 0.2818,  
0.3147

■ 91.2325, 0.2972,  
0.3222

99.9806, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

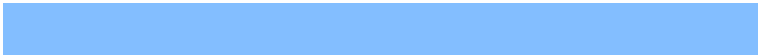
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



49.6971, 0.2142, 0.3008



49.6971, 0.2098, 0.2587



49.6971, 0.2291, 0.2392

# Triad

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



49.6971, 0.2098, 0.2587



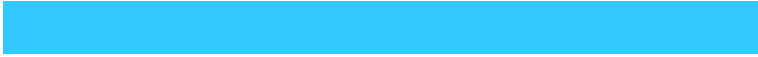
49.6971, 0.3843, 0.2977



49.6971, 0.3481, 0.4351

# Complementary

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



49.6971, 0.2098, 0.2587



31.5902, 0.5501, 0.3707

# 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.



49.6971, 0.3981, 0.4220



49.6971, 0.2098, 0.2587



49.6971, 0.4221, 0.3413

# Square

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



49.6971, 0.2098, 0.2587



49.6971, 0.3268, 0.2624



49.6971, 0.4265, 0.3859



49.6971, 0.2911, 0.4122



# Rectangle

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



49.6971, 0.2098, 0.2587



49.6971, 0.2543, 0.2384



49.6971, 0.4265, 0.3859



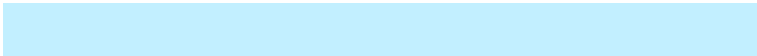
49.6971, 0.3663, 0.4344

# Sweetspot

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



49.6967, 0.2098, 0.2587



80.2817, 0.2757, 0.3115



73.1809, 0.2878, 0.5330



16.6354, 0.2704, 0.3086



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

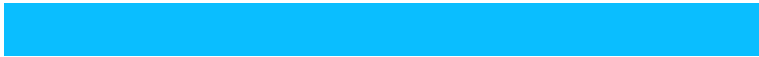


# Same Dimension

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



49.6967, 0.2098, 0.2587



44.2080, 0.2012, 0.2428



17.4172, 0.1747, 0.1260



19.6202, 0.2980, 0.3226



22.7165, 0.2002, 0.2405



2.3908, 0.2033, 0.2518



# Inverse Universe

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



27.8401, 0.3820, 0.2008



25.2088, 0.3992, 0.1986



64.6778, 0.4518, 0.4608



18.2135, 0.3179, 0.3117



13.0212, 0.4018, 0.1987

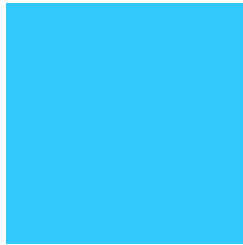


1.2859, 0.3904, 0.1924



# Previews

## White Background



This preview shows how the Yxy color 49.6971, 0.2098, 0.2587 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

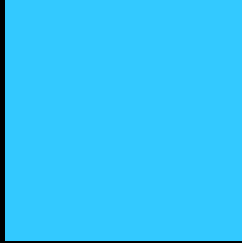
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.6971, 0.2098, 0.2587 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

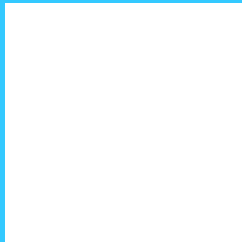
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.6971, 0.2098, 0.2587**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6971, 0.2098, 0.2587.

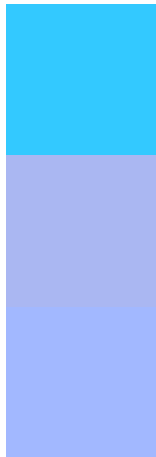


This preview shows how white text looks on a background with the Yxy color 49.6971, 0.2098, 0.2587.

# 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

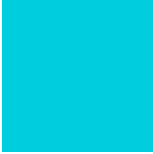
49.6971, 0.2098, 0.2587

### Protanopia

48.8238, 0.2619, 0.2581

### Deuteranopia

49.1824, 0.2495, 0.2450



## Tritanopia

49.4703, 0.2180, 0.3047

# Trichromacy



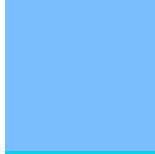
## Original Color

49.6971, 0.2098, 0.2587



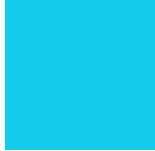
## Protanomaly

48.0543, 0.2351, 0.2570



## Deuteranomaly

48.1845, 0.2290, 0.2481



## Tritanomaly

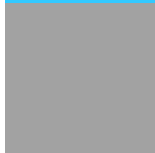
49.3223, 0.2138, 0.2862

# Monochromacy



## Original Color

49.6971, 0.2098, 0.2587



## Achromatopsia

36.1307, 0.3127, 0.3290



## Achromatomaly

39.1738, 0.2564, 0.2997

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6971, 0.2098, 0.2587 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(51, 201, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 201, 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(51, 201, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 201, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6971, 0.2098, 0.2587 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(51, 201, 255) }
```

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

```
.border{ border-color:rgb(51, 201, 255) }
```

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

Here you see how a box with a 4 pixel rgb(51, 201, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 201, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 201, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 201,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6971, 0.2098, 0.2587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 201, 255) }
```

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

```
.background{ background-color: rgb(51, 201,  
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](#).

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