

# Converting Colors

$Y_{xy}(65.7058, 0.2193, 0.2819)$

Have a look what the booklet for  
Yxy(65.7058, 0.2193, 0.2819)  
contains.

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# Color

**Yxy(64.6751, 0.2239, 0.2967)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49E5FF
RGB	73, 229, 255
RGB Percent	29%, 90%, 100%
CMY	0.7142, 0.1019, 0.0001
CMYK	0.71, 0.10, 0.00, 0.00
HSL	189°, 100%, 64%
HSV	189°, 71%, 100%
XYZ	48.8060, 64.6751, 104.5003
YIQ	185.3200, -101.3220, -24.9860

# Conversions

## Conversions Part 2

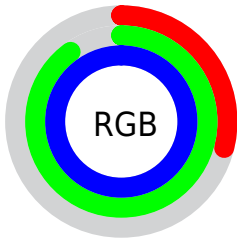
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	73, 157, 255
Decimal	4843007
CIE <sub>Lab</sub>	84.32, -32.01, -24.32
CIE <sub>LCh</sub>	84, 40.200, 217.229
Yxy	64.6751, 0.2239, 0.2967
Android (android.graphics.Color)	4283033087 (0xFF49E5FF)
YUV	185.3200, 34.3522, -98.5046
Hunter-Lab	80.4208, -32.4078, -20.7479

# Details

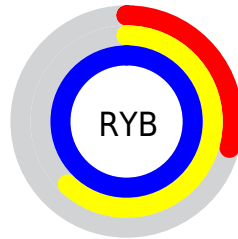
The Yxy color **64.6751, 0.2239, 0.2967** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **30.6273, 0.5374, 0.3511**, and the grayscale version is **48.5312, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6693, 0.2536, 0.3288**, and **33.9644, 0.2135, 0.2884** is the 20% darker color. If you saturate the color by 10%, you get **61.8884, 0.2180, 0.2916**, and if you desaturate by 10%, it is **67.9163, 0.2318, 0.3018**.

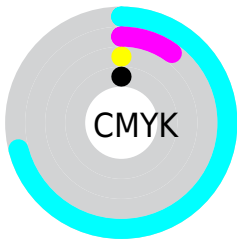
# Distribution



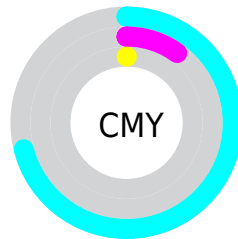
- Red (29%)
- Green (90%)
- Blue (100%)



- Red (29%)
- Yellow (62%)
- Blue (100%)



- Cyan (71%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (71%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.6751, 0.2239, 0.2967 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 64.6751, 0.2239, 0.2967 by changing the saturation by 10% instead.




 64.6751, 0.2239,  
0.2967


 64.6751, 0.2239,  
0.2967


441.6235, 0.2642,  
0.3132

 47.1977, 0.2150,  
0.2926

 111.5826, 0.2377,  
0.3027


 33.1920, 0.2042,  
0.2874


 141.7815, 0.2431,  
0.3050

 22.2735, 0.1908,  
0.2806


 176.9897, 0.2478,  
0.3069

 14.0580, 0.1739,  
0.2713

 217.5915, 0.2519,  
0.3085

 8.1610, 0.1520,  
0.2581

263.9714, 0.2555,  
0.3099

 4.1982, 0.1230,  
0.2384

316.5138, 0.2587,

 1.7850, 0.0841,

0.3111

0.2070

375.6030, 0.2616,  
0.3122

■ 0.4778, 0.0000,  
0.1438

■ 0.0000, 0.0000,  
0.0000

■ 64.6751, 0.2239,  
0.2967

■ 64.6751, 0.2239,  
0.2967

■ 61.8884, 0.2180,  
0.2916

■ 67.9163, 0.2318,  
0.3018

■ 59.4953, 0.2140,  
0.2865

■ 71.6496, 0.2416,  
0.3068

■ 57.6874, 0.2117,  
0.2822

■ 75.9164, 0.2531,  
0.3117

■ 80.7515, 0.2660,  
0.3163

86.1865, 0.2801,  
0.3207

92.2507, 0.2951,  
0.3248

98.9713, 0.3105,  
0.3285

99.9987, 0.3127,  
0.3290

# Harmonies

## Analogous

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



64.6751, 0.2453, 0.3450



64.6751, 0.2239, 0.2967



64.6751, 0.2240, 0.2631

# Triad

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



64.6751, 0.2239, 0.2967



64.6751, 0.3354, 0.2758



64.6751, 0.3802, 0.4143

# Complementary

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



64.6751, 0.2239, 0.2967



30.6273, 0.5374, 0.3511

# 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.



64.6751, 0.4088, 0.3869



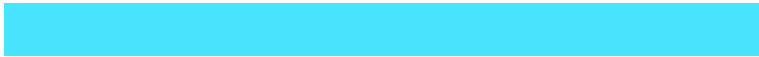
64.6751, 0.2239, 0.2967



64.6751, 0.3829, 0.3092

# Square

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



64.6751, 0.2239, 0.2967



64.6751, 0.2848, 0.2543



64.6751, 0.4105, 0.3486

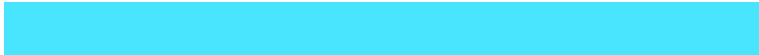


64.6751, 0.3345, 0.4187

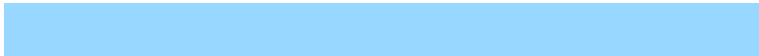


# Rectangle

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



64.6751, 0.2239, 0.2967



64.6751, 0.2359, 0.2516



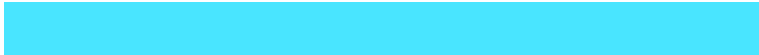
64.6751, 0.4105, 0.3486



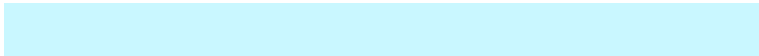
64.6751, 0.3922, 0.4071

# Sweetspot

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



64.6775, 0.2239, 0.2967



86.4452, 0.2808, 0.3209



73.7841, 0.2949, 0.5351



18.1668, 0.2768, 0.3197



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

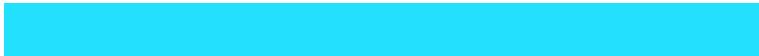


# Same Dimension

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



64.6775, 0.2239, 0.2967



60.7584, 0.2159, 0.2893



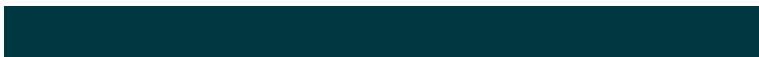
27.2819, 0.1934, 0.1753



20.0139, 0.2980, 0.3255



30.3177, 0.2120, 0.2830



3.0676, 0.2136, 0.2888



# Inverse Universe

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



31.6620, 0.3466, 0.1900



27.8711, 0.3545, 0.1787



57.7897, 0.4563, 0.4362



18.2532, 0.3160, 0.3089



13.7886, 0.3607, 0.1760

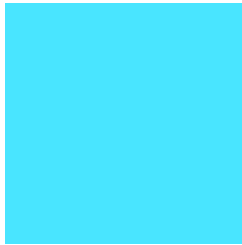


1.3542, 0.3554, 0.1732



# Previews

## White Background



This preview shows how the Yxy color 64.6751, 0.2239, 0.2967 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

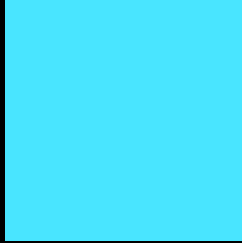
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.6751, 0.2239, 0.2967 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

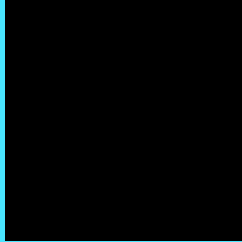
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.6751, 0.2239, 0.2967**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.6751, 0.2239, 0.2967.

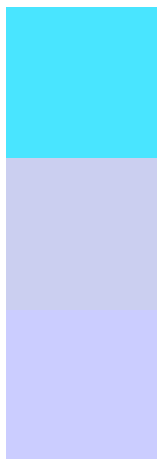


This preview shows how white text looks on a background with the Yxy color 64.6751, 0.2239, 0.2967.

# 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

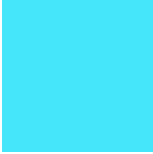
64.6751, 0.2239, 0.2967

### Protanopia

63.6134, 0.2879, 0.2922

### Deuteranopia

63.5792, 0.2786, 0.2746



## Tritanopia

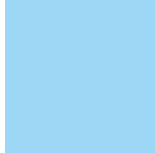
64.6984, 0.2256, 0.3050

# Trichromacy



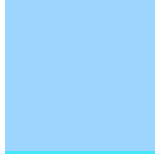
## Original Color

64.6751, 0.2239, 0.2967



## Protanomaly

62.2614, 0.2567, 0.2933



## Deuteranomaly

62.3811, 0.2515, 0.2811



## Tritanomaly

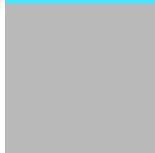
64.8608, 0.2250, 0.3026

# Monochromacy



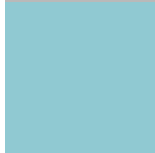
## Original Color

64.6751, 0.2239, 0.2967



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

52.3557, 0.2666, 0.3170

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.6751, 0.2239, 0.2967 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(73, 229, 255)` looks like.

```
.text, #text, p{  
    color:rgb(73, 229, 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(73, 229, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 229, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.6751, 0.2239, 0.2967 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(73, 229, 255) }
```

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

```
.border{ border-color:rgb(73, 229, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 229, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 229, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 229, 255);  
box-shadow:4px 4px 4px 4px rgb(73, 229,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.6751, 0.2239, 0.2967 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 229, 255) }
```

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

```
.background{ background-color: rgb(73, 229,  
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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