

# Converting Colors

$Yxy(63.9405, 0.2198, 0.2857)$

Have a look what the booklet for  
Yxy(63.9405, 0.2198, 0.2857)  
contains.

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# Color

**Yxy(63.4234, 0.2224, 0.2940)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45E3FF
RGB	69, 227, 255
RGB Percent	27%, 89%, 100%
CMY	0.7291, 0.1098, 0.0000
CMYK	0.73, 0.11, 0.00, 0.00
HSL	189°, 100%, 64%
HSV	189°, 73%, 100%
XYZ	47.9774, 63.4234, 104.3250
YIQ	182.9500, -103.1560, -24.7880

# Conversions

## Conversions Part 2

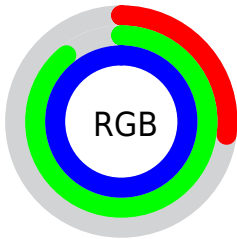
<b>Format</b>	<b>Color</b>
<b>RYB</b>	69, 154, 255
Decimal	4580351
CIELab	83.66, -31.48, -25.33
CIElCh	84, 40.407, 218.826
Yxy	63.4234, 0.2224, 0.2940
Android (android.graphics.Color)	4282770431 (0xFF45E3FF)
YUV	182.9500, 35.5207, -99.9341
Hunter-Lab	79.6388, -31.8328, -21.9214

# Details

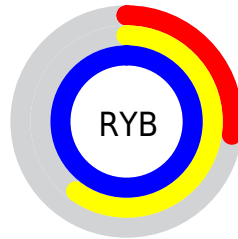
The Yxy color **63.4234, 0.2224, 0.2940** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **30.2550, 0.5426, 0.3523**, and the grayscale version is **47.1818, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.4027, 0.2524, 0.3288**, and **33.2030, 0.2125, 0.2850** is the 20% darker color. If you saturate the color by 10%, you get **60.6058, 0.2167, 0.2886**, and if you desaturate by 10%, it is **66.6921, 0.2301, 0.2994**.

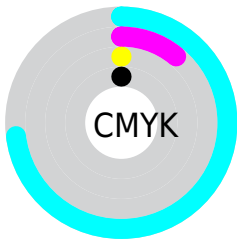
# Distribution



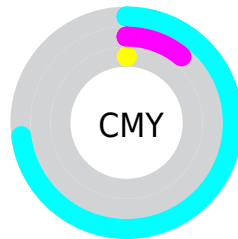
- Red (27%)
- Green (89%)
- Blue (100%)



- Red (27%)
- Yellow (60%)
- Blue (100%)



- Cyan (73%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (73%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.4234, 0.2224, 0.2940 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 63.4234, 0.2224, 0.2940 by changing the saturation by 10% instead.





 63.4234, 0.2224,  
0.2940


 63.4234, 0.2224,  
0.2940

437.1045, 0.2635,  
0.3118


 46.1838, 0.2133,  
0.2896


 109.7801, 0.2364,  
0.3005


 32.3909, 0.2023,  
0.2840


 139.6660, 0.2420,  
0.3029

 21.6603, 0.1886,  
0.2766

 174.5362, 0.2467,  
0.3050

 13.6075, 0.1713,  
0.2667

 214.7750, 0.2509,  
0.3067

 7.8482, 0.1490,  
0.2526

260.7669, 0.2546,  
0.3083

 3.9979, 0.1195,  
0.2316

312.8961, 0.2579,

 1.6724, 0.0794,

0.3096

0.1984

371.5472, 0.2608,  
0.3108

0.4057, 0.0000,  
0.1254

0.0000, 0.0000,  
0.0000

63.4234, 0.2224,  
0.2940

63.4234, 0.2224,  
0.2940

60.6058, 0.2167,  
0.2886

66.6921, 0.2301,  
0.2994

58.1780, 0.2128,  
0.2832

70.4520, 0.2398,  
0.3048

56.6367, 0.2110,  
0.2794

74.7448, 0.2511,  
0.3100

79.6059, 0.2639,  
0.3149

85.0676, 0.2779,  
0.3196

91.1593, 0.2928,  
0.3239

97.9086, 0.3082,  
0.3279

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.



63.4234, 0.2429, 0.3424



63.4234, 0.2224, 0.2940



63.4234, 0.2237, 0.2611

# Triad

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



63.4234, 0.2224, 0.2940



63.4234, 0.3385, 0.2767



63.4234, 0.3787, 0.4162

# Complementary

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



63.4234, 0.2224, 0.2940



30.2550, 0.5426, 0.3523

# 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.



63.4234, 0.4090, 0.3893



63.4234, 0.2224, 0.2940



63.4234, 0.3858, 0.3109

# Square

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



63.4234, 0.2224, 0.2940



63.4234, 0.2870, 0.2543



63.4234, 0.4123, 0.3509



63.4234, 0.3320, 0.4192

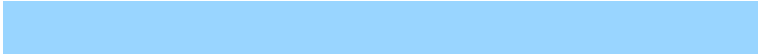


# Rectangle

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



63.4234, 0.2224, 0.2940



63.4234, 0.2365, 0.2502



63.4234, 0.4123, 0.3509



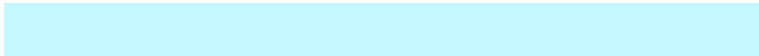
63.4234, 0.3913, 0.4093

# Sweetspot

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



63.4253, 0.2224, 0.2940



85.5955, 0.2793, 0.3200



73.6506, 0.2938, 0.5360



17.9876, 0.2754, 0.3188



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

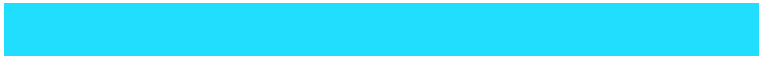


# Same Dimension

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



63.4253, 0.2224, 0.2940



59.5692, 0.2149, 0.2864



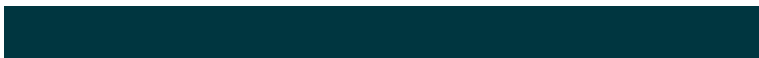
25.5802, 0.1903, 0.1676



19.9877, 0.2980, 0.3253



29.7705, 0.2112, 0.2803



3.0195, 0.2129, 0.2864



# Inverse Universe

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



31.0719, 0.3491, 0.1895



27.6079, 0.3571, 0.1795



58.4863, 0.4567, 0.4400



18.2506, 0.3161, 0.3090



13.7333, 0.3632, 0.1774

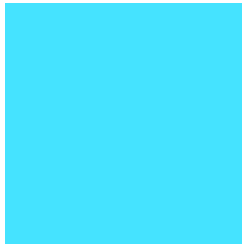


1.3494, 0.3576, 0.1743



# Previews

## White Background



This preview shows how the Yxy color 63.4234, 0.2224, 0.2940 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

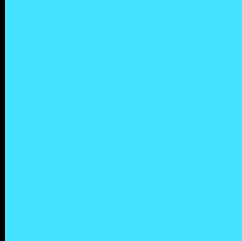
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.4234, 0.2224, 0.2940 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 63.4234, 0.2224, 0.2940**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.4234, 0.2224, 0.2940.

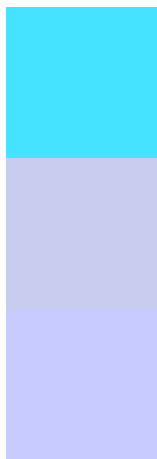


This preview shows how white text looks on a background with the Yxy color 63.4234, 0.2224, 0.2940.

# 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

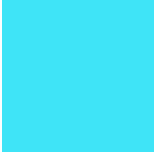
63.4234, 0.2224, 0.2940

### Protanopia

62.2333, 0.2857, 0.2897

### Deuteranopia

62.2112, 0.2764, 0.2720



## Tritanopia

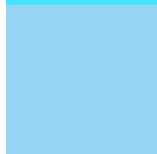
63.2590, 0.2244, 0.3047

# Trichromacy



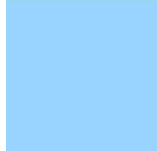
## Original Color

63.4234, 0.2224, 0.2940



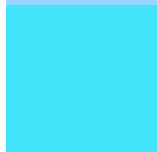
## Protanomaly

60.8565, 0.2542, 0.2906



## Deuteranomaly

60.9824, 0.2490, 0.2784



## Tritanomaly

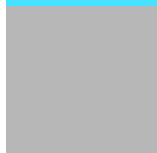
63.5128, 0.2237, 0.3011

# Monochromacy



## Original Color

63.4234, 0.2224, 0.2940



## Achromatopsia

47.3531, 0.3127, 0.3290



## Achromatomaly

51.2011, 0.2656, 0.3156

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.4234, 0.2224, 0.2940 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(69, 227, 255)` looks like.

```
.text, #text, p{  
    color:rgb(69, 227, 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(69, 227, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 227, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 63.4234, 0.2224, 0.2940 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(69, 227, 255) }
```

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

```
.border{ border-color:rgb(69, 227, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 227, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 227, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 227, 255);  
box-shadow:4px 4px 4px 4px rgb(69, 227,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.4234, 0.2224, 0.2940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 227, 255) }
```

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

```
.background{ background-color: rgb(69, 227,  
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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