

# Converting Colors

$Y_{xy}(63.2236, 0.2193, 0.2946)$

Have a look what the booklet for  
Yxy(63.2236, 0.2193, 0.2946)  
contains.

<b>Yxy(63.4106, 0.2194, 0.2950)</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(63.4106, 0.2194, 0.2950)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33E4FF
RGB	51, 228, 255
RGB Percent	20%, 89%, 100%
CMY	0.8001, 0.1059, 0.0000
CMYK	0.80, 0.11, 0.00, 0.00
HSL	188°, 100%, 60%
HSV	188°, 80%, 100%
XYZ	47.1603, 63.4106, 104.3803
YIQ	178.1550, -114.1590, -29.1270

# Conversions

## Conversions Part 2

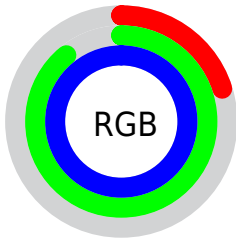
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 146, 255
Decimal	3400959
CIE Lab	83.66, -33.72, -25.38
CIE LCh	84, 42.207, 216.965
Yxy	63.4106, 0.2194, 0.2950
Android (android.graphics.Color)	4281591039 (0xFF33E4FF)
YUV	178.1550, 37.8846, -111.5149
Hunter-Lab	79.6308, -33.6395, -21.9760

# Details

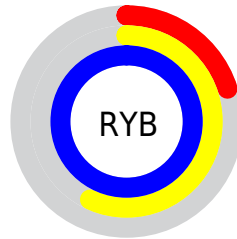
The Yxy color **63.4106, 0.2194, 0.2950** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **26.9455, 0.5751, 0.3477**, and the grayscale version is **44.4463, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.5653, 0.2486, 0.3288**, and **33.5823, 0.2130, 0.2867** is the 20% darker color. If you saturate the color by 10%, you get **61.0821, 0.2153, 0.2903**, and if you desaturate by 10%, it is **66.1394, 0.2255, 0.2998**.

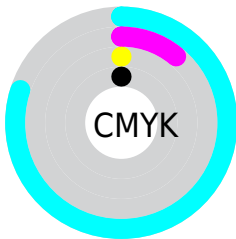
# Distribution



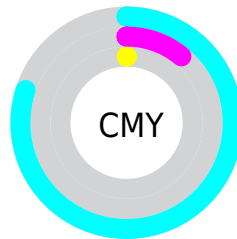
- Red (20%)
- Green (89%)
- Blue (100%)



- Red (20%)
- Yellow (57%)
- Blue (100%)



- Cyan (80%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.4106, 0.2194, 0.2950 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 63.4106, 0.2194, 0.2950 by changing the saturation by 10% instead.




 63.4106, 0.2194,  
0.2950

 63.4106, 0.2194,  
0.2950

437.0581, 0.2617,  
0.3125


 46.1735, 0.2101,  
0.2906


 109.7617, 0.2339,  
0.3014


 32.3827, 0.1987,  
0.2851


 139.6444, 0.2395,  
0.3038

 21.6540, 0.1847,  
0.2778


 174.5111, 0.2445,  
0.3058

 13.6029, 0.1670,  
0.2678

 214.7462, 0.2488,  
0.3075

 7.8450, 0.1442,  
0.2538

260.7340, 0.2526,  
0.3090

 3.9959, 0.1144,  
0.2326

312.8590, 0.2560,

 1.6713, 0.0732,

0.3103

0.1994

371.5056, 0.2590,  
0.3115

0.4050, 0.0000,  
0.1250

0.0000, 0.0000,  
0.0000

63.4106, 0.2194,  
0.2950

63.4106, 0.2194,  
0.2950

61.0821, 0.2153,  
0.2903

66.1394, 0.2255,  
0.2998

59.0675, 0.2127,  
0.2857

69.3182, 0.2335,  
0.3045

72.9917, 0.2434,  
0.3091

77.1981, 0.2550,  
0.3136

81.9716, 0.2681,  
0.3179

87.3436, 0.2822,  
0.3219

93.3429, 0.2972,  
0.3256

99.9963, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

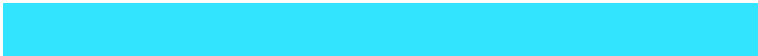
# Harmonies

## Analogous

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



63.4106, 0.2419, 0.3463



63.4106, 0.2194, 0.2950



63.4106, 0.2194, 0.2596

# Triad

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



63.4106, 0.2194, 0.2950



63.4106, 0.3361, 0.2728



63.4106, 0.3840, 0.4188

# Complementary

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



63.4106, 0.2194, 0.2950



26.9455, 0.5751, 0.3477

# 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.



63.4106, 0.4143, 0.3892



63.4106, 0.2194, 0.2950



63.4106, 0.3865, 0.3076

# Square

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



63.4106, 0.2194, 0.2950



63.4106, 0.2828, 0.2504



63.4106, 0.4160, 0.3489

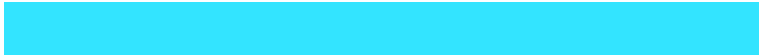


63.4106, 0.3359, 0.4243

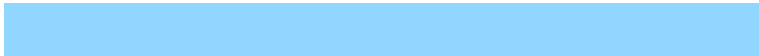


# Rectangle

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



63.4106, 0.2194, 0.2950



63.4106, 0.2317, 0.2476



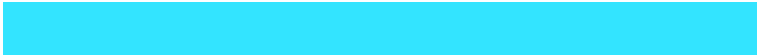
63.4106, 0.4160, 0.3489



63.4106, 0.3967, 0.4109

# Sweetspot

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



63.4114, 0.2194, 0.2950



85.1240, 0.2765, 0.3203



72.7286, 0.2959, 0.5605



17.8140, 0.2714, 0.3189



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

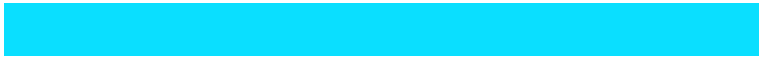


# Same Dimension

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



63.4114, 0.2194, 0.2950



59.8501, 0.2136, 0.2876



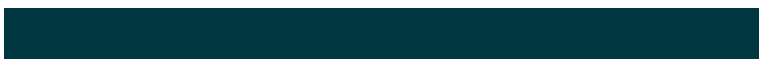
23.6745, 0.1835, 0.1592



20.0471, 0.2980, 0.3258



31.0236, 0.2129, 0.2865



3.1296, 0.2144, 0.2918



# Inverse Universe

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



29.2280, 0.3489, 0.1807



26.7878, 0.3564, 0.1748



52.8622, 0.4766, 0.4380



18.2566, 0.3158, 0.3086



13.8598, 0.3575, 0.1743

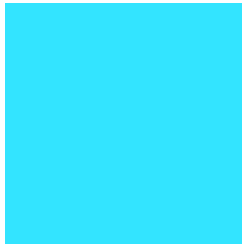


1.3605, 0.3527, 0.1717



# Previews

## White Background



This preview shows how the Yxy color 63.4106, 0.2194, 0.2950 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

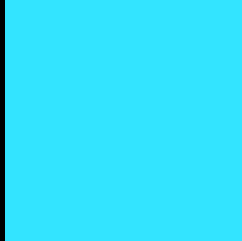
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.4106, 0.2194, 0.2950 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 63.4106, 0.2194, 0.2950**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.4106, 0.2194, 0.2950.

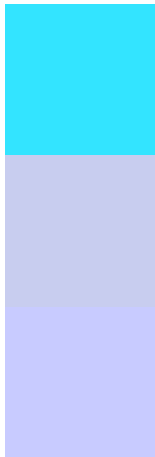


This preview shows how white text looks on a background with the Yxy color 63.4106, 0.2194, 0.2950.

# 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

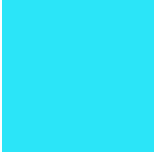
63.4106, 0.2194, 0.2950

### Protanopia

62.1740, 0.2863, 0.2908

### Deuteranopia

62.2112, 0.2764, 0.2720



## **Tritanopia**

63.3295, 0.2211, 0.3046

# Trichromacy



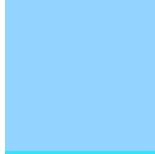
## Original Color

63.4106, 0.2194, 0.2950



## Protanomaly

60.2921, 0.2510, 0.2903



## Deuteranomaly

60.4180, 0.2459, 0.2780



## Tritanomaly

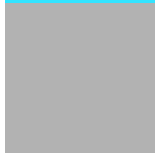
63.5845, 0.2204, 0.3010

# Monochromacy



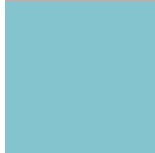
## Original Color

63.4106, 0.2194, 0.2950



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

48.8416, 0.2607, 0.3153

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.4106, 0.2194, 0.2950 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, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 228, 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, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 228, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 63.4106, 0.2194, 0.2950 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, 228, 255) }
```

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

```
.border{ border-color:rgb(51, 228, 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, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 228,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.4106, 0.2194, 0.2950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 228, 255) }
```

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

```
.background{ background-color: rgb(51, 228,  
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