

# Converting Colors

$Y_{xy}(53.8032, 0.2250, 0.2666)$

Have a look what the booklet for  
Yxy(53.8032, 0.2250, 0.2666)  
contains.

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# Color

**Yxy(53.7074, 0.2249, 0.2663)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66CDFF
RGB	102, 205, 255
RGB Percent	40%, 80%, 100%
CMY	0.6003, 0.1960, 0.0000
CMYK	0.60, 0.20, 0.00, 0.00
HSL	200°, 100%, 70%
HSV	200°, 60%, 100%
XYZ	45.3578, 53.7074, 102.6148
YIQ	179.9030, -77.4380, -6.2860

# Conversions

## Conversions Part 2

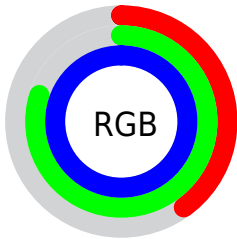
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	102, 164, 255
Decimal	6737407
CIELab	78.29, -15.70, -33.52
CIElCh	78, 37.010, 244.903
Yxy	53.7074, 0.2249, 0.2663
Android (android.graphics.Color)	4284927487 (0xFF66CDFF)
YUV	179.9030, 37.0228, -68.3209
Hunter-Lab	73.2853, -17.7719, -31.7187

# Details

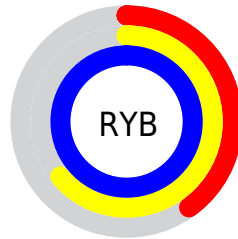
The Yxy color **53.7074, 0.2249, 0.2663** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **44.6441, 0.4657, 0.3791**, and the grayscale version is **45.4045, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.6325, 0.2624, 0.3289**, and **26.3296, 0.2043, 0.2503** is the 20% darker color. If you saturate the color by 10%, you get **48.5618, 0.2141, 0.2538**, and if you desaturate by 10%, it is **59.5220, 0.2375, 0.2785**.

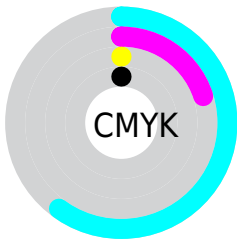
# Distribution



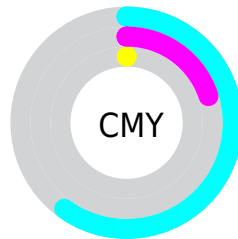
- Red (40%)
- Green (80%)
- Blue (100%)



- Red (40%)
- Yellow (64%)
- Blue (100%)



- Cyan (60%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)



- Cyan (60%)
- Magenta (20%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 53.7074, 0.2249, 0.2663 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 53.7074, 0.2249, 0.2663 by changing the saturation by 10% instead.



■ 53.7074, 0.2249,  
0.2663

■ 53.7074, 0.2249,  
0.2663

■ 400.9933, 0.2659,  
0.2971

■ 38.3678, 0.2156,  
0.2590

■ 95.6445, 0.2391,  
0.2773

■ 26.2683, 0.2041,  
0.2497

■ 123.0108, 0.2447,  
0.2814

■ 17.0244, 0.1898,  
0.2379

■ 155.1547, 0.2494,  
0.2850

■ 10.2519, 0.1715,  
0.2223

■ 192.4607, 0.2536,  
0.2881

■ 5.5663, 0.1476,  
0.2009

■ 235.3132, 0.2573,  
0.2908

■ 2.5832, 0.1157,  
0.1704

■ 284.0965, 0.2605,

■ 0.9182, 0.0676,

0.2931

0.1268

339.1950, 0.2634,  
0.2952

0.0000, 0.0000,  
0.0000

53.7074, 0.2249,  
0.2663

53.7074, 0.2249,  
0.2663

48.5618, 0.2141,  
0.2538

59.5220, 0.2375,  
0.2785

44.0398, 0.2052,  
0.2411

66.0482, 0.2513,  
0.2902

40.0855, 0.1984,  
0.2286

73.3229, 0.2662,  
0.3012

36.6214, 0.1934,  
0.2163

81.3801, 0.2815,  
0.3113

90.2515, 0.2971,  
0.3206

99.9667, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

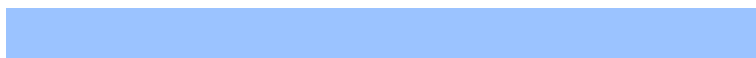
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



53.7074, 0.2265, 0.3007



53.7074, 0.2249, 0.2663



53.7074, 0.2442, 0.2510

# Triad

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



53.7074, 0.2249, 0.2663



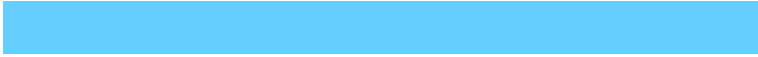
53.7074, 0.3783, 0.3068



53.7074, 0.3380, 0.4175

# Complementary

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



53.7074, 0.2249, 0.2663



44.6441, 0.4657, 0.3791

# 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.



53.7074, 0.3818, 0.4112



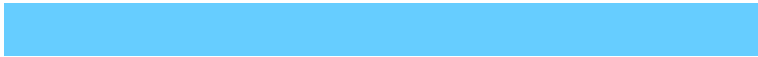
53.7074, 0.2249, 0.2663



53.7074, 0.4074, 0.3453

# Square

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



53.7074, 0.2249, 0.2663



53.7074, 0.3311, 0.2746



53.7074, 0.4081, 0.3832



53.7074, 0.2894, 0.3942



# Rectangle

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



53.7074, 0.2249, 0.2663



53.7074, 0.2676, 0.2515



53.7074, 0.4081, 0.3832



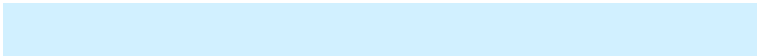
53.7074, 0.3538, 0.4185

# Sweetspot

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



53.7069, 0.2249, 0.2663



83.1165, 0.2847, 0.3133



76.5546, 0.2840, 0.4649



17.2605, 0.2802, 0.3105



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.



53.7069, 0.2249, 0.2663



47.6246, 0.2121, 0.2513



26.0003, 0.2026, 0.1672



19.4228, 0.2980, 0.3211



19.4193, 0.1940, 0.2183



2.0901, 0.1979, 0.2324



# Inverse Universe

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



35.1545, 0.3709, 0.2287



29.7596, 0.3876, 0.2161



77.1201, 0.4135, 0.4487



18.1935, 0.3188, 0.3131



12.6884, 0.4250, 0.2115

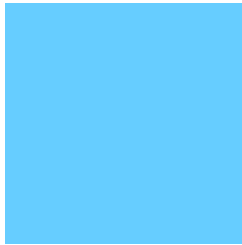


1.2555, 0.4101, 0.2033



# Previews

## White Background



This preview shows how the Yxy color 53.7074, 0.2249, 0.2663 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

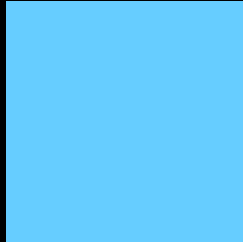
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 53.7074, 0.2249, 0.2663 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

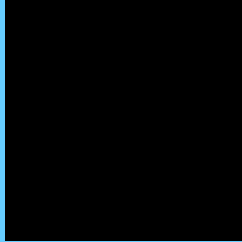
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

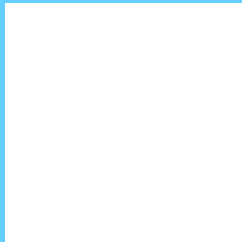
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 53.7074, 0.2249, 0.2663**

## **Background**



This preview shows how black text looks on a background with the Yxy color 53.7074, 0.2249, 0.2663.



This preview shows how white text looks on a background with the Yxy color 53.7074, 0.2249, 0.2663.

# 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

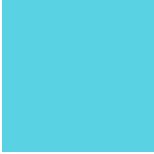
53.7074, 0.2249, 0.2663

### Protanopia

52.9423, 0.2676, 0.2657

### Deuteranopia

53.2770, 0.2593, 0.2541



## **Tritanopia**

53.7631, 0.2336, 0.3060

# Trichromacy



**Original Color**

53.7074, 0.2249, 0.2663

**Protanomaly**

52.3868, 0.2487, 0.2647

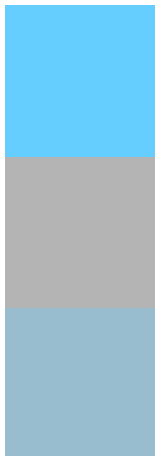
**Deuteranomaly**

52.6398, 0.2440, 0.2571

**Tritanomaly**

53.6059, 0.2304, 0.2909

# Monochromacy



**Original Color**

53.7074, 0.2249, 0.2663

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

47.5756, 0.2719, 0.3050

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 53.7074, 0.2249, 0.2663 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(102, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 205, 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(102, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 205, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 53.7074, 0.2249, 0.2663 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(102, 205, 255) }
```

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

```
.border{ border-color:rgb(102, 205, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 205, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 205, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 205, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 205,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 53.7074, 0.2249, 0.2663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 205, 255) }
```

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

```
.background{ background-color: rgb(102,  
205, 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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