

# Converting Colors

$Y_{xy}(52.6404, 0.2255, 0.2445)$

Have a look what the booklet for  
Yxy(52.6404, 0.2255, 0.2445)  
contains.

<b>Yxy(51.7457, 0.2312, 0.2585)</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(51.7457, 0.2312, 0.2585)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AC6FF
RGB	122, 198, 255
RGB Percent	48%, 78%, 100%
CMY	0.5211, 0.2236, 0.0000
CMYK	0.52, 0.22, 0.00, 0.00
HSL	206°, 100%, 74%
HSV	206°, 52%, 100%
XYZ	46.2809, 51.7457, 102.1502
YIQ	181.7740, -63.5930, 1.6150

# Conversions

## Conversions Part 2

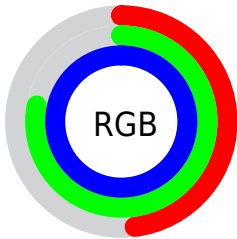
Format	Color
R <sub>Y</sub> B	122, 170, 255
Decimal	8046335
CIE Lab	77.13, -8.06, -35.22
CIE LCh	77, 36.133, 257.118
Yxy	51.7457, 0.2312, 0.2585
Android (android.graphics.Color)	4286236415 (0xFF7AC6FF)
YUV	181.7740, 36.1004, -52.4218
Hunter-Lab	71.9345, -11.0428, -33.8403

# Details

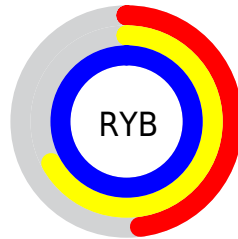
The Yxy color **51.7457, 0.2312, 0.2585** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **54.9574, 0.4298, 0.3878**, and the grayscale version is **46.4905, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.5638, 0.2706, 0.3289**, and **24.9535, 0.2112, 0.2399** is the 20% darker color. If you saturate the color by 10%, you get **45.3003, 0.2175, 0.2420**, and if you desaturate by 10%, it is **59.0445, 0.2461, 0.2743**.

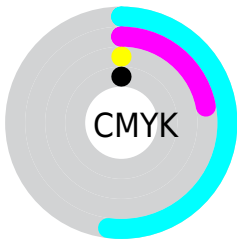
# Distribution



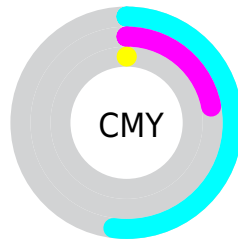
- Red (48%)
- Green (78%)
- Blue (100%)



- Red (48%)
- Yellow (67%)
- Blue (100%)



- Cyan (52%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)



- Cyan (52%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.7457, 0.2312, 0.2585 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 51.7457, 0.2312, 0.2585 by changing the saturation by 10% instead.



■ 51.7457, 0.2312,  
0.2585

■ 51.7457, 0.2312,  
0.2585

393.4541, 0.2697,  
0.2926

■ 36.8024, 0.2223,  
0.2504

■ 92.7561, 0.2446,  
0.2706

■ 25.0545, 0.2114,  
0.2404

■ 119.5920, 0.2499,  
0.2752

■ 16.1177, 0.1977,  
0.2276

■ 151.1609, 0.2543,  
0.2792

■ 9.6075, 0.1800,  
0.2108

187.8472, 0.2582,  
0.2826

■ 5.1395, 0.1565,  
0.1881

230.0352, 0.2616,  
0.2856

■ 2.3293, 0.1248,  
0.1563

278.1095, 0.2646,

■ 0.7892, 0.0779,

0.2882

0.1110

332.4543, 0.2673,  
0.2906

0.0000, 0.0000,  
0.0000

51.7457, 0.2312,  
0.2585

51.7457, 0.2312,  
0.2585

45.3003, 0.2175,  
0.2420

59.0445, 0.2461,  
0.2743

39.6560, 0.2055,  
0.2251

67.2332, 0.2618,  
0.2892

34.7619, 0.1955,  
0.2082

76.3525, 0.2778,  
0.3030

30.5555, 0.1878,  
0.1917

86.4385, 0.2938,  
0.3155

27.6525, 0.1831,  
0.1791

97.5249, 0.3095,  
0.3268

99.9996, 0.3127,  
0.3290

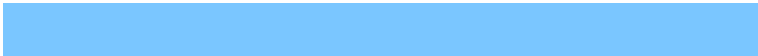
# Harmonies

## Analogous

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



51.7457, 0.2242, 0.2851



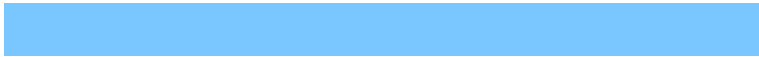
51.7457, 0.2312, 0.2585



51.7457, 0.2582, 0.2512

# Triad

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



51.7457, 0.2312, 0.2585



51.7457, 0.3922, 0.3222



51.7457, 0.3180, 0.4105

# Complementary

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



51.7457, 0.2312, 0.2585



54.9574, 0.4298, 0.3878

# 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.



51.7457, 0.3648, 0.4161



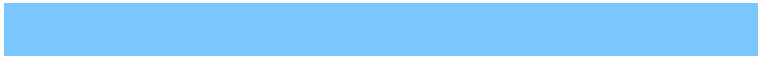
51.7457, 0.2312, 0.2585



51.7457, 0.4101, 0.3610

# Square

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



51.7457, 0.2312, 0.2585



51.7457, 0.3511, 0.2870



51.7457, 0.3993, 0.3958

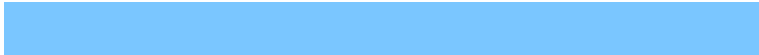


51.7457, 0.2718, 0.3767



# Rectangle

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



51.7457, 0.2312, 0.2585



51.7457, 0.2856, 0.2564



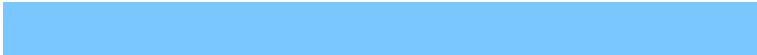
51.7457, 0.3993, 0.3958



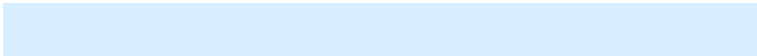
51.7457, 0.3342, 0.4157

# Sweetspot

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



51.7476, 0.2312, 0.2585



82.4020, 0.2876, 0.3108



78.8558, 0.2799, 0.4263



17.1927, 0.2843, 0.3082



0.0000, 0.0000, 0.0000

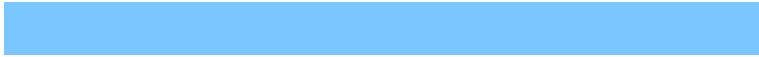


21.4041, 0.3127, 0.3290



# Same Dimension

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



51.7476, 0.2312, 0.2585



44.7683, 0.2163, 0.2405



28.1931, 0.2144, 0.1752



19.0997, 0.2979, 0.3185



14.7522, 0.1838, 0.1817



1.6534, 0.1889, 0.2001



# Inverse Universe

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



39.2834, 0.3753, 0.2525



32.8762, 0.3952, 0.2400



87.3206, 0.3940, 0.4463



18.1609, 0.3204, 0.3155



12.2172, 0.4665, 0.2343

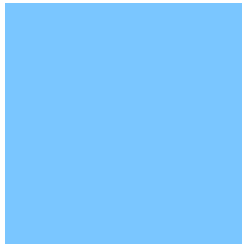


1.2115, 0.4452, 0.2226



# Previews

## White Background



This preview shows how the Yxy color 51.7457, 0.2312, 0.2585 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

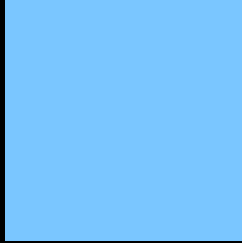
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.7457, 0.2312, 0.2585 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

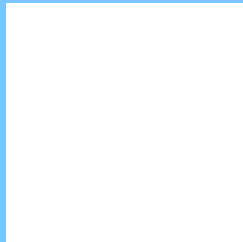
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 51.7457, 0.2312, 0.2585**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.7457, 0.2312, 0.2585.



This preview shows how white text looks on a background with the Yxy color 51.7457, 0.2312, 0.2585.

# 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

51.7457, 0.2312, 0.2585

### Protanopia

51.2547, 0.2621, 0.2583

### Deuteranopia

51.3067, 0.2550, 0.2497



## **Tritanopia**

51.7212, 0.2430, 0.3060

# Trichromacy



## Original Color

51.7457, 0.2312, 0.2585

## Protanomaly

51.1323, 0.2492, 0.2579

## Deuteranomaly

51.2539, 0.2455, 0.2525

## Tritanomaly

51.7017, 0.2385, 0.2884

# Monochromacy



## Original Color

51.7457, 0.2312, 0.2585

## Achromatopsia

46.7784, 0.3127, 0.3290

## Achromatomaly

48.0435, 0.2761, 0.3016

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.7457, 0.2312, 0.2585 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(122, 198, 255)` looks like.

```
.text, #text, p{  
    color:rgb(122, 198, 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(122, 198, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 198, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 51.7457, 0.2312, 0.2585 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(122, 198, 255) }
```

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

```
.border{ border-color:rgb(122, 198, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 198, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 198, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 198, 255);  
box-shadow:4px 4px 4px 4px rgb(122, 198,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.7457, 0.2312, 0.2585 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 198, 255) }
```

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

```
.background{ background-color: rgb(122,  
198, 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