

# Converting Colors

$Yxy(46.9804, 0.2129, 0.2489)$

Have a look what the booklet for  
Yxy(46.9804, 0.2129, 0.2489)  
contains.

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# Color

**Yxy(46.9377, 0.2130, 0.2488)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DC1FF
RGB	77, 193, 255
RGB Percent	30%, 76%, 100%
CMY	0.6976, 0.2432, 0.0001
CMYK	0.70, 0.24, 0.00, 0.00
HSL	201°, 100%, 65%
HSV	201°, 70%, 100%
XYZ	40.1838, 46.9377, 101.5348
YIQ	165.3840, -89.0380, -5.3100

# Conversions

## Conversions Part 2

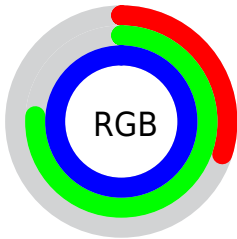
Format	Color
R <sub>Y</sub> B	77, 147, 255
Decimal	5095935
CIE Lab	74.15, -13.31, -39.96
CIE LCh	74, 42.123, 251.580
Yxy	46.9377, 0.2130, 0.2488
Android (android.graphics.Color)	4283286015 (0xFF4DC1FF)
YUV	165.3840, 44.1807, -77.5128
Hunter-Lab	68.5111, -15.1988, -39.9112

# Details

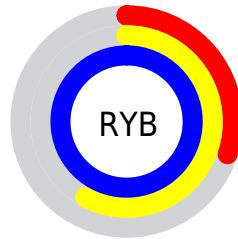
The Yxy color **46.9377, 0.2130, 0.2488** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed cyan. A complement of this color would be **40.2858, 0.4974, 0.3866**, and the grayscale version is **37.6500, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.9007, 0.2525, 0.3220**, and **22.8334, 0.1973, 0.2302** is the 20% darker color. If you saturate the color by 10%, you get **42.2656, 0.2037, 0.2352**, and if you desaturate by 10%, it is **52.2647, 0.2242, 0.2623**.

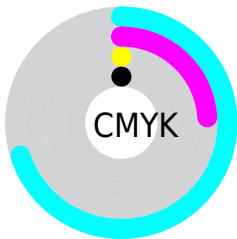
# Distribution



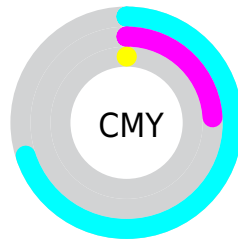
- Red (30%)
- Green (76%)
- Blue (100%)



- Red (30%)
- Yellow (58%)
- Blue (100%)



- Cyan (70%)
- Magenta (24%)
- Yellow (0%)
- Black (0%)



- Cyan (70%)
- Magenta (24%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9377, 0.2130, 0.2488 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 46.9377, 0.2130, 0.2488 by changing the saturation by 10% instead.





 46.9377, 0.2130,  
0.2488


 46.9377, 0.2130,  
0.2488

374.5658, 0.2602,  
0.2884

 32.9864, 0.2022,  
0.2394


 85.6206, 0.2294,  
0.2629


 22.1160, 0.1890,  
0.2276


 111.1210, 0.2358,  
0.2683

 13.9422, 0.1724,  
0.2125


 141.2400, 0.2413,  
0.2729

 8.0805, 0.1514,  
0.1927

 176.3618, 0.2461,  
0.2768

 4.1465, 0.1242,  
0.1661

216.8709, 0.2503,  
0.2803

 1.7558, 0.0891,  
0.1297

263.1516, 0.2540,

 0.4594, 0.0179,

0.2833

0.0736

315.5885, 0.2573,  
0.2860

■ 0.0000, 0.0000,  
0.0000

■ 46.9377, 0.2130,  
0.2488

■ 46.9377, 0.2130,  
0.2488

■ 42.2656, 0.2037,  
0.2352

■ 52.2647, 0.2242,  
0.2623

■ 38.1876, 0.1966,  
0.2217

■ 58.2891, 0.2371,  
0.2754

■ 34.6189, 0.1913,  
0.2086

■ 65.0542, 0.2513,  
0.2878

■ 34.5376, 0.1912,  
0.2083

■ 72.5980, 0.2664,  
0.2996

■ 80.9551, 0.2819,  
0.3104

■ 90.1578, 0.2976,  
0.3203

99.9989, 0.3127,  
0.3290

# Harmonies

## Analogous

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



46.9377, 0.2092, 0.2836



46.9377, 0.2130, 0.2488



46.9377, 0.2402, 0.2369

# Triad

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



46.9377, 0.2130, 0.2488



46.9377, 0.4012, 0.3118



46.9377, 0.3287, 0.4326

# Complementary

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



46.9377, 0.2130, 0.2488



40.2858, 0.4974, 0.3866

# 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.



46.9377, 0.3833, 0.4308



46.9377, 0.2130, 0.2488



46.9377, 0.4287, 0.3569

# Square

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



46.9377, 0.2130, 0.2488



46.9377, 0.3476, 0.2726



46.9377, 0.4210, 0.4003



46.9377, 0.2725, 0.3970



# Rectangle

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



46.9377, 0.2130, 0.2488



46.9377, 0.2701, 0.2408



46.9377, 0.4210, 0.4003



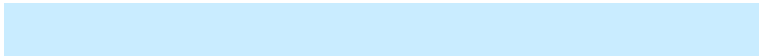
46.9377, 0.3478, 0.4361

# Sweetspot

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



46.9393, 0.2130, 0.2488



79.8863, 0.2799, 0.3091



74.8805, 0.2815, 0.4869



16.5933, 0.2756, 0.3062



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.



46.9393, 0.2130, 0.2488



40.4737, 0.2004, 0.2295



19.2645, 0.1849, 0.1352



19.3533, 0.2980, 0.3205



18.3396, 0.1918, 0.2104



1.9904, 0.1960, 0.2255



# Inverse Universe

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



30.4293, 0.3894, 0.2214



26.1419, 0.4116, 0.2139



75.8269, 0.4258, 0.4640



18.1865, 0.3192, 0.3136



12.5794, 0.4336, 0.2162

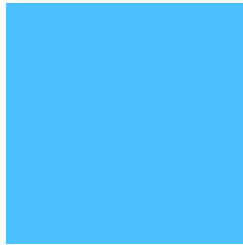


1.2455, 0.4174, 0.2073



# Previews

## White Background



This preview shows how the Yxy color 46.9377, 0.2130, 0.2488 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

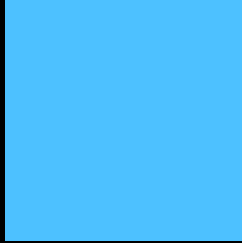
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9377, 0.2130, 0.2488 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

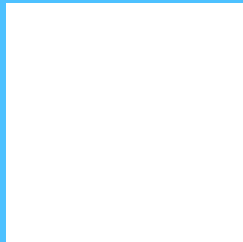
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.9377, 0.2130, 0.2488**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9377, 0.2130, 0.2488.

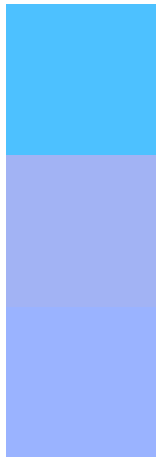


This preview shows how white text looks on a background with the Yxy color 46.9377, 0.2130, 0.2488.

# 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

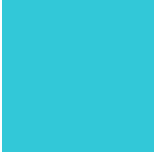
46.9377, 0.2130, 0.2488

### Protanopia

46.4532, 0.2548, 0.2499

### Deuteranopia

46.3302, 0.2437, 0.2377



## **Tritanopia**

46.9445, 0.2238, 0.3058

# Trichromacy



**Original Color**

46.9377, 0.2130, 0.2488

**Protanomaly**

45.8836, 0.2352, 0.2484

**Deuteranomaly**

45.9366, 0.2294, 0.2406

**Tritanomaly**

46.6063, 0.2193, 0.2830

# Monochromacy



**Original Color**

46.9377, 0.2130, 0.2488

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

39.7237, 0.2623, 0.2961

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9377, 0.2130, 0.2488 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(77, 193, 255)` looks like.

```
.text, #text, p{  
    color:rgb(77, 193, 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(77, 193, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 193, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9377, 0.2130, 0.2488 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(77, 193, 255) }
```

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

```
.border{ border-color:rgb(77, 193, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 193, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 193, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 193, 255);  
box-shadow:4px 4px 4px 4px rgb(77, 193,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9377, 0.2130, 0.2488 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 193, 255) }
```

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

```
.background{ background-color: rgb(77, 193,  
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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