

# Converting Colors

$Yxy(46.0686, 0.2069, 0.2476)$

Have a look what the booklet for  
Yxy(46.0686, 0.2069, 0.2476)  
contains.

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# Color

**Yxy(46.0637, 0.2069, 0.2476)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33C1FF
RGB	51, 193, 255
RGB Percent	20%, 76%, 100%
CMY	0.7995, 0.2432, 0.0000
CMYK	0.80, 0.24, 0.00, 0.00
HSL	198°, 100%, 60%
HSV	198°, 80%, 100%
XYZ	38.4918, 46.0637, 101.4853
YIQ	157.6100, -104.5340, -10.8220

# Conversions

## Conversions Part 2

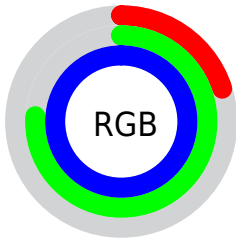
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 135, 255
Decimal	3391999
CIELab	73.59, -16.23, -40.90
CIELCh	74, 44.004, 248.363
Yxy	46.0637, 0.2069, 0.2476
Android (android.graphics.Color)	4281582079 (0xFF33C1FF)
YUV	157.6100, 48.0133, -93.4970
Hunter-Lab	67.8702, -17.5387, -41.1462

# Details

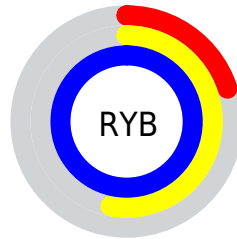
The Yxy color **46.0637, 0.2069, 0.2476** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **33.3422, 0.5417, 0.3782**, and the grayscale version is **33.8377, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6385, 0.2465, 0.3219**, and **22.8334, 0.1973, 0.2302** is the 20% darker color. If you saturate the color by 10%, you get **42.2319, 0.2004, 0.2360**, and if you desaturate by 10%, it is **50.4389, 0.2155, 0.2593**.

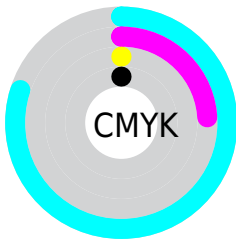
# Distribution



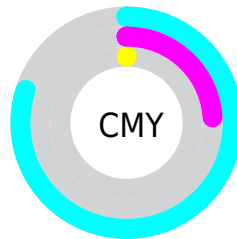
- Red (20%)
- Green (76%)
- Blue (100%)



- Red (20%)
- Yellow (53%)
- Blue (100%)



- Cyan (80%)
- Magenta (24%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (24%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.0637, 0.2069, 0.2476 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 46.0637, 0.2069, 0.2476 by changing the saturation by 10% instead.




 46.0637, 0.2069,  
0.2476


 46.0637, 0.2069,  
0.2476


371.0647, 0.2569,  
0.2880

 32.2961, 0.1955,  
0.2379


 84.3143, 0.2243,  
0.2621

 21.5878, 0.1816,  
0.2257


 109.5661, 0.2310,  
0.2676

 13.5543, 0.1643,  
0.2102


 139.4148, 0.2369,  
0.2723

 7.8113, 0.1424,  
0.1898

 174.2447, 0.2419,  
0.2763

 3.9745, 0.1144,  
0.1624

214.4402, 0.2464,  
0.2798

 1.6593, 0.0790,  
0.1250

260.3858, 0.2503,

 0.3971, 0.0000,

0.2829

0.0655

312.4658, 0.2538,  
0.2856

0.0000, 0.0000,  
0.0000

46.0637, 0.2069,  
0.2476

46.0637, 0.2069,  
0.2476

42.2319, 0.2004,  
0.2360

50.4389, 0.2155,  
0.2593

38.8554, 0.1957,  
0.2245

55.4110, 0.2260,  
0.2710

38.8383, 0.1957,  
0.2245

61.0265, 0.2383,  
0.2822

67.3258, 0.2519,  
0.2930

74.3457, 0.2665,  
0.3032

■ 82.1197, 0.2817,  
0.3126

■ 90.6786, 0.2973,  
0.3212

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.



46.0637, 0.2055, 0.2863



46.0637, 0.2069, 0.2476



46.0637, 0.2326, 0.2330

# Triad

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



46.0637, 0.2069, 0.2476



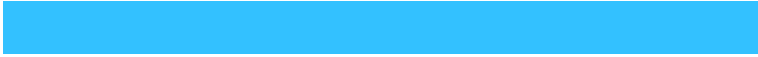
46.0637, 0.4007, 0.3059



46.0637, 0.3356, 0.4400

# Complementary

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



46.0637, 0.2069, 0.2476



33.3422, 0.5417, 0.3782

# 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.



46.0637, 0.3918, 0.4334



46.0637, 0.2069, 0.2476



46.0637, 0.4332, 0.3526

# Square

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



46.0637, 0.2069, 0.2476



46.0637, 0.3424, 0.2663



46.0637, 0.4288, 0.3987



46.0637, 0.2762, 0.4065



# Rectangle

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



46.0637, 0.2069, 0.2476



46.0637, 0.2624, 0.2357



46.0637, 0.4288, 0.3987



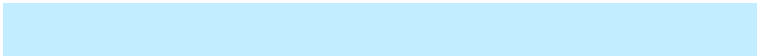
46.0637, 0.3555, 0.4420

# Sweetspot

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



46.0641, 0.2069, 0.2476



78.8760, 0.2755, 0.3089



73.4037, 0.2843, 0.5208



16.2948, 0.2701, 0.3055



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

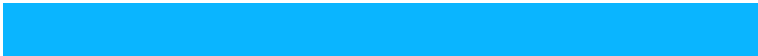


# Same Dimension

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



46.0641, 0.2069, 0.2476



40.1476, 0.1974, 0.2290



15.5657, 0.1719, 0.1151



19.4940, 0.2980, 0.3216



20.5695, 0.1962, 0.2264



2.1956, 0.1999, 0.2395



# Inverse Universe

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



27.4894, 0.3927, 0.2074



24.7989, 0.4134, 0.2065



69.7083, 0.4432, 0.4685



18.2007, 0.3185, 0.3126



12.8045, 0.4164, 0.2068

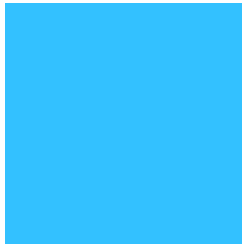


1.2662, 0.4028, 0.1993



# Previews

## White Background



This preview shows how the Yxy color 46.0637, 0.2069, 0.2476 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

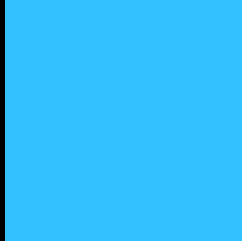
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.0637, 0.2069, 0.2476 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

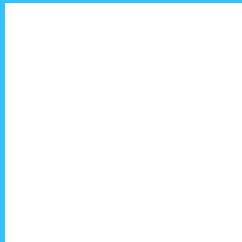
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.0637, 0.2069, 0.2476**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.0637, 0.2069, 0.2476.

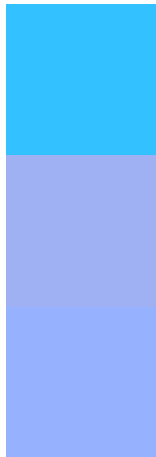


This preview shows how white text looks on a background with the Yxy color 46.0637, 0.2069, 0.2476.

# 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

46.0637, 0.2069, 0.2476

### Protanopia

45.3889, 0.2537, 0.2482

### Deuteranopia

45.5448, 0.2411, 0.2359

# Trichromacy



## Original Color

46.0637, 0.2069, 0.2476

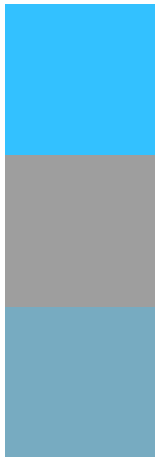
## Protanomaly

44.5754, 0.2298, 0.2470

## Deuteranomaly

44.6644, 0.2235, 0.2381

# Monochromacy



## Original Color

46.0637, 0.2069, 0.2476

## Achromatopsia

34.1914, 0.3127, 0.3290

## Achromatomaly

36.8980, 0.2552, 0.2961

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.0637, 0.2069, 0.2476 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, 193, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 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(51, 193, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 193, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.0637, 0.2069, 0.2476 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, 193, 255) }
```

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

```
.border{ border-color:rgb(51, 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(51, 193, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 193, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 193, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 193,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 46.0637, 0.2069, 0.2476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 193, 255) }
```

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

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