

# Converting Colors

$Y_{xy}(46.8600, 0.2499, 0.2475)$

Have a look what the booklet for  
Yxy(46.8600, 0.2499, 0.2475)  
contains.

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# Color

**Yxy(46.9932, 0.2497, 0.2477)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9DB5F8
RGB	157, 181, 248
RGB Percent	62%, 71%, 97%
CMY	0.3842, 0.2902, 0.0276
CMYK	0.37, 0.27, 0.00, 0.03
HSL	224°, 87%, 79%
HSV	224°, 37%, 97%
XYZ	47.3726, 46.9932, 95.3524
YIQ	181.4620, -35.8110, 15.7490

# Conversions

## Conversions Part 2

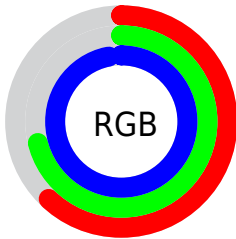
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	157, 176, 248
Decimal	10335736
CIE Lab	74.19, 7.70, -35.85
CIE LCh	74, 36.672, 282.120
Yxy	46.9932, 0.2497, 0.2477
Android (android.graphics.Color)	4288525816 (0xFF9DB5F8)
YUV	181.4620, 32.8032, -21.4532
Hunter-Lab	68.5516, 3.3873, -34.4838

# Details

The Yxy color `46.9932, 0.2497, 0.2477` is a light color, and the websafe version is hex `9999CC`. A complement of this color would be `75.7005, 0.3762, 0.3986`, and the grayscale version is `46.3090, 0.3127, 0.3290`.

A 20% lighter version of the original color is `82.0845, 0.2875, 0.3102`, and `22.0247, 0.2331, 0.2271` is the 20% darker color. If you saturate the color by 10%, you get `37.8016, 0.2308, 0.2206`, and if you desaturate by 10%, it is `57.6680, 0.2683, 0.2730`.

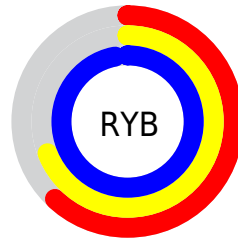
# Distribution



Red (62%)

Green (71%)

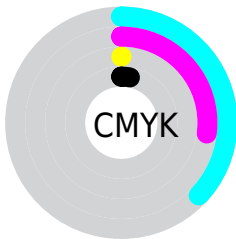
Blue (97%)



Red (62%)

Yellow (69%)

Blue (97%)

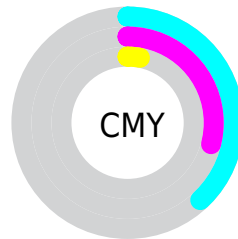


Cyan (37%)

Magenta (27%)

Yellow (0%)

Black (3%)



Cyan (38%)

Magenta (29%)


Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9932, 0.2497, 0.2477 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 46.9932, 0.2497, 0.2477 by changing the saturation by 10% instead.





 46.9932, 0.2497,  
0.2477


 46.9932, 0.2497,  
0.2477

374.7874, 0.2805,  
0.2865

 33.0303, 0.2423,  
0.2387


 85.7035, 0.2607,  
0.2613

 22.1496, 0.2331,  
0.2274


 111.2196, 0.2649,  
0.2666

 13.9669, 0.2212,  
0.2132


141.3556, 0.2684,  
0.2711

 8.0976, 0.2055,  
0.1947

176.4959, 0.2715,  
0.2750

 4.1575, 0.1839,  
0.1698

217.0248, 0.2742,  
0.2784

 1.7620, 0.1531,  
0.1356

263.3268, 0.2766,

 0.4634, 0.1066,

0.2815

0.0786

315.7862, 0.2787,  
0.2841

0.0000, 0.0000,  
0.0000

46.9932, 0.2497,  
0.2477

46.9932, 0.2497,  
0.2477

37.8016, 0.2308,  
0.2206

57.6680, 0.2683,  
0.2730

30.0195, 0.2123,  
0.1925

69.8844, 0.2860,  
0.2960

23.5745, 0.1950,  
0.1644

83.7041, 0.3025,  
0.3166

18.3850, 0.1800,  
0.1377

98.9503, 0.3168,  
0.3348

14.3592, 0.1682,  
0.1140

99.5552, 0.3168,  
0.3357

■ 11.3893, 0.1601,  
0.0944

■ 10.5952, 0.1580,  
0.0888

# Harmonies

## Analogous

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



46.9932, 0.2249, 0.2585



46.9932, 0.2497, 0.2477



46.9932, 0.2923, 0.2558

# Triad

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



46.9932, 0.2497, 0.2477



46.9932, 0.4138, 0.3554



46.9932, 0.2772, 0.3867

# Complementary

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



46.9932, 0.2497, 0.2477



75.7005, 0.3762, 0.3986

# 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.



46.9932, 0.3265, 0.4179



46.9932, 0.2497, 0.2477



46.9932, 0.4071, 0.3932

# Square

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



46.9932, 0.2497, 0.2477



46.9932, 0.3903, 0.3151



46.9932, 0.3744, 0.4182



46.9932, 0.2394, 0.3367



# Rectangle

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



46.9932, 0.2497, 0.2477



46.9932, 0.3268, 0.2704



46.9932, 0.3744, 0.4182



46.9932, 0.2929, 0.4002

# Sweetspot

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



46.9950, 0.2497, 0.2477



82.5830, 0.2954, 0.3079



79.6527, 0.2730, 0.3571



17.2484, 0.2932, 0.3051



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.



46.9950, 0.2497, 0.2477



42.6864, 0.2357, 0.2278



40.3978, 0.2607, 0.2221



17.3867, 0.2979, 0.3110



5.9188, 0.1587, 0.0914



0.7134, 0.1649, 0.1137



# Inverse Universe

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



47.4138, 0.3782, 0.3034



43.8376, 0.3982, 0.2983



85.8400, 0.3530, 0.4253



17.3003, 0.3252, 0.3228



11.0084, 0.5890, 0.3019



1.0363, 0.5556, 0.2835



# Previews

## White Background



This preview shows how the Yxy color 46.9932, 0.2497, 0.2477 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

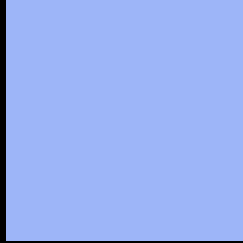
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9932, 0.2497, 0.2477 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

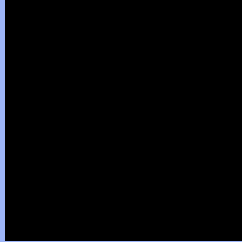
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.9932, 0.2497, 0.2477**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9932, 0.2497, 0.2477.



This preview shows how white text looks on a background with the Yxy color 46.9932, 0.2497, 0.2477.

# 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

46.9932, 0.2497, 0.2477

### Protanopia

47.1444, 0.2539, 0.2482

### Deuteranopia

47.1012, 0.2527, 0.2471



## Tritanopia

46.9579, 0.2704, 0.3087

# Trichromacy



## Original Color

46.9932, 0.2497, 0.2477

## Protanomaly

46.9350, 0.2526, 0.2480

## Deuteranomaly

46.8934, 0.2514, 0.2468

## Tritanomaly

46.8644, 0.2627, 0.2847

# Monochromacy



## Original Color

46.9932, 0.2497, 0.2477

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

46.2262, 0.2872, 0.2980

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9932, 0.2497, 0.2477 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(157, 181, 248)` looks like.

```
.text, #text, p{  
    color:rgb(157, 181, 248)  
}
```

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(157, 181, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 181, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9932, 0.2497, 0.2477 is called "border". The border property can be set on classes, ids or directly on the HTML element.

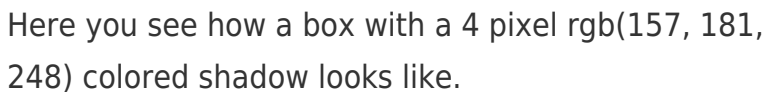
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(157, 181, 248) }
```

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

```
.border{ border-color:rgb(157, 181, 248) }
```

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



Here you see how a box with a 4 pixel `rgb(157, 181, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(157, 181, 248); -webkit-box-shadow:4px 4px 4px 4px rgb(157, 181, 248); box-shadow:4px 4px 4px 4px rgb(157, 181, 248) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9932, 0.2497, 0.2477 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 181, 248) }
```

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

```
.background{ background-color: rgb(157,  
181, 248) }
```

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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