

# Converting Colors

$Y_{xy}(39.7365, 0.2638, 0.2606)$

Have a look what the booklet for  
Yxy(39.7365, 0.2638, 0.2606)  
contains.

<b>Yxy(39.8198, 0.2640, 0.2607)</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(39.8198, 0.2640, 0.2607)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9CA7DB
RGB	156, 167, 219
RGB Percent	61%, 65%, 86%
CMY	0.3881, 0.3451, 0.1411
CMYK	0.29, 0.24, 0.00, 0.14
HSL	230°, 47%, 74%
HSV	230°, 29%, 86%
XYZ	40.3238, 39.8198, 72.5982
YIQ	169.6390, -23.2480, 13.8400

# Conversions

## Conversions Part 2

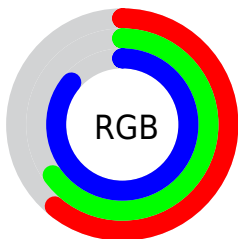
<b>Format</b>	<b>Color</b>
<b>RYB</b>	156, 165, 219
Decimal	10266587
CIELab	69.34, 7.85, -27.58
CIELCh	69, 28.680, 285.893
Yxy	39.8198, 0.2640, 0.2607
Android (android.graphics.Color)	4288456667 (0xFF9CA7DB)
YUV	169.6390, 24.3350, -11.9614
Hunter-Lab	63.1029, 3.6344, -24.0395

# Details

The Yxy color **39.8198, 0.2640, 0.2607** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **62.6188, 0.3592, 0.3891**, and the grayscale version is **39.8991, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.4596, 0.2855, 0.2941**, and **17.8254, 0.2495, 0.2414** is the 20% darker color. If you saturate the color by 10%, you get **31.6565, 0.2446, 0.2321**, and if you desaturate by 10%, it is **49.3080, 0.2823, 0.2870**.

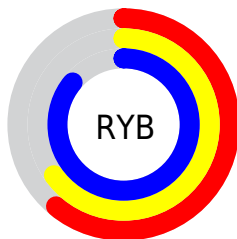
# Distribution



Red (61%)

Green (65%)

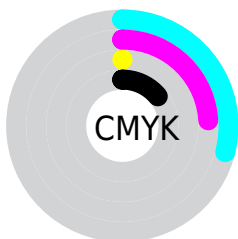
Blue (86%)



Red (61%)

Yellow (65%)

Blue (86%)

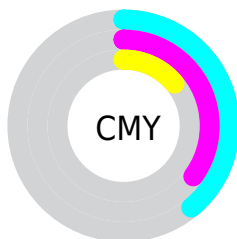


Cyan (29%)

Magenta (24%)

Yellow (0%)

Black (14%)



Cyan (39%)

Magenta (35%)

Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.8198, 0.2640, 0.2607 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 39.8198, 0.2640, 0.2607 by changing the saturation by 10% instead.



■ 39.8198, 0.2640,  
0.2607

■ 39.8198, 0.2640,  
0.2607

■ 345.3635, 0.2888,  
0.2945

■ 27.3981, 0.2578,  
0.2524

■ 74.8890, 0.2730,  
0.2729

■ 17.8724, 0.2498,  
0.2420

■ 98.3053, 0.2764,  
0.2775

■ 10.8584, 0.2392,  
0.2283

■ 126.1553, 0.2793,  
0.2814

■ 5.9717, 0.2245,  
0.2098

■ 158.8233, 0.2817,  
0.2848

■ 2.8279, 0.2030,  
0.1837

■ 196.6937, 0.2838,  
0.2877

■ 1.0425, 0.1697,  
0.1450

■ 240.1509, 0.2857,

■ 0.0000, 0.0539,

0.2902

0.0000

289.5794, 0.2873,  
0.2925

0.0000, 0.0000,  
0.0000

39.8198, 0.2640,  
0.2607

39.8198, 0.2640,  
0.2607

31.6565, 0.2446,  
0.2321

49.3080, 0.2823,  
0.2870

24.7540, 0.2249,  
0.2017

60.1722, 0.2992,  
0.3106

19.0496, 0.2055,  
0.1709

72.4663, 0.3145,  
0.3314

14.4734, 0.1878,  
0.1411

86.2400, 0.3283,  
0.3497

10.9480, 0.1729,  
0.1143

97.8960, 0.3339,  
0.3641

■ 8.3855, 0.1617,  
0.0922

■ 6.6723, 0.1547,  
0.0759

■ 6.5063, 0.1540,  
0.0743

# Harmonies

## Analogous

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



39.8198, 0.2407, 0.2683



39.8198, 0.2640, 0.2607



39.8198, 0.3013, 0.2692

# Triad

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



39.8198, 0.2640, 0.2607



39.8198, 0.3969, 0.3563



39.8198, 0.2789, 0.3715

# Complementary

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



39.8198, 0.2640, 0.2607



62.6188, 0.3592, 0.3891

# 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.



39.8198, 0.3195, 0.3996



39.8198, 0.2640, 0.2607



39.8198, 0.3888, 0.3866

# Square

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



39.8198, 0.2640, 0.2607



39.8198, 0.3803, 0.3221



39.8198, 0.3600, 0.4040



39.8198, 0.2487, 0.3306



# Rectangle

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



39.8198, 0.2640, 0.2607



39.8198, 0.3302, 0.2826



39.8198, 0.3600, 0.4040



39.8198, 0.2918, 0.3831

# Sweetspot

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



39.8214, 0.2640, 0.2607



84.3972, 0.2987, 0.3099



62.2792, 0.2778, 0.3434



17.5583, 0.2963, 0.3066



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.



39.8214, 0.2640, 0.2607



48.4537, 0.2514, 0.2422



38.1359, 0.2786, 0.2495



12.9812, 0.2981, 0.3091



3.9680, 0.1545, 0.0762



0.3696, 0.1622, 0.1037



# Inverse Universe

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



41.6454, 0.3649, 0.3160



51.7885, 0.3818, 0.3129



65.2337, 0.3404, 0.4044



13.0883, 0.3264, 0.3250



9.0243, 0.6131, 0.3151

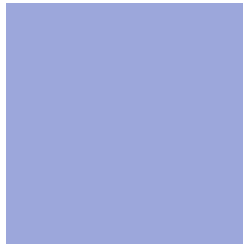


0.5960, 0.5703, 0.2915



# Previews

## White Background



This preview shows how the Yxy color 39.8198, 0.2640, 0.2607 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

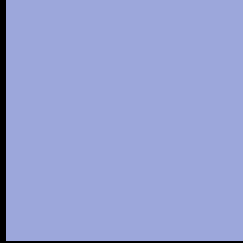
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.8198, 0.2640, 0.2607 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

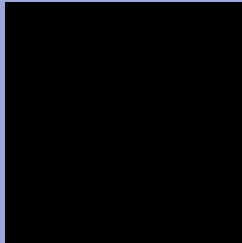
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 39.8198, 0.2640, 0.2607**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.8198, 0.2640, 0.2607.



This preview shows how white text looks on a background with the Yxy color 39.8198, 0.2640, 0.2607.

# 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

39.8198, 0.2640, 0.2607

### Protanopia

39.7205, 0.2632, 0.2606

### Deuteranopia

39.7578, 0.2661, 0.2598



## Tritanopia

39.8646, 0.2815, 0.3091

# Trichromacy



## Original Color

39.8198, 0.2640, 0.2607

## Protanomaly

39.7205, 0.2632, 0.2606

## Deuteranomaly

39.6560, 0.2653, 0.2597

## Tritanomaly

39.9247, 0.2751, 0.2904

# Monochromacy



## Original Color

39.8198, 0.2640, 0.2607

## Achromatopsia

40.1978, 0.3127, 0.3290

## Achromatomaly

40.0061, 0.2937, 0.3030

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.8198, 0.2640, 0.2607 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(156, 167, 219)` looks like.

```
.text, #text, p{  
    color:rgb(156, 167, 219)  
}
```

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(156, 167, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 167, 219) }
```

## Border

The CSS property to change the border of an element to Yxy 39.8198, 0.2640, 0.2607 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(156, 167, 219) }
```

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

```
.border{ border-color:rgb(156, 167, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 167, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 167, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 167, 219);  
box-shadow:4px 4px 4px 4px rgb(156, 167,  
219) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.8198, 0.2640, 0.2607 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 167, 219) }
```

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

```
.background{ background-color: rgb(156,  
167, 219) }
```

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