

# Converting Colors

$Y_{xy}(24.6880, 0.2440, 0.1820)$

Have a look what the booklet for  
Yxy(24.6880, 0.2440, 0.1820)  
contains.

<b>Yxy(24.6880, 0.2440, 0.1820)</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(24.6880, 0.2440, 0.1820)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9674E6
RGB	150, 116, 230
RGB Percent	59%, 45%, 90%
CMY	0.4119, 0.5450, 0.0982
CMYK	0.35, 0.50, 0.00, 0.10
HSL	258°, 69%, 68%
HSV	258°, 50%, 90%
XYZ	33.0982, 24.6880, 77.8622
YIQ	139.1620, -16.3300, 42.6620

# Conversions

## Conversions Part 2

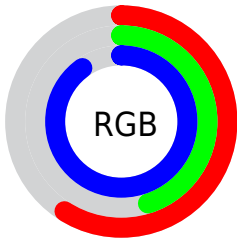
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	150, 116, 230
Decimal	9860326
CIE Lab	56.77, 38.11, -53.38
CIE LCh	57, 65.588, 305.520
Yxy	24.6880, 0.2440, 0.1820
Android (android.graphics.Color)	4288050406 (0xFF9674E6)
YUV	139.1620, 44.7831, 9.5049
Hunter-Lab	49.6870, 31.9526, -58.1296

# Details

The Yxy color **24.6880, 0.2440, 0.1820** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **69.5782, 0.3593, 0.4611**, and the grayscale version is **25.7138, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.8613, 0.2790, 0.2351**, and **9.4500, 0.2200, 0.1458** is the 20% darker color. If you saturate the color by 10%, you get **18.5988, 0.2266, 0.1505**, and if you desaturate by 10%, it is **32.3022, 0.2608, 0.2145**.

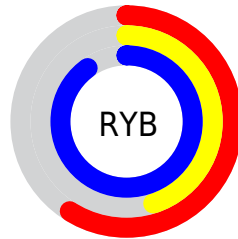
# Distribution



Red (59%)

Green (45%)

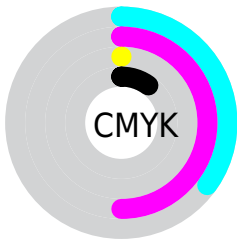
Blue (90%)



Red (59%)

Yellow (45%)

Blue (90%)

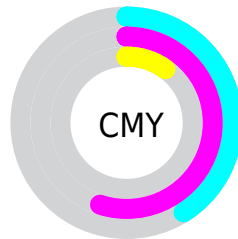


Cyan (35%)

Magenta (50%)

Yellow (0%)

Black (10%)



Cyan (41%)

Magenta (55%)


Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.6880, 0.2440, 0.1820 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 24.6880, 0.2440, 0.1820 by changing the saturation by 10% instead.





 24.6880, 0.2440,  
0.1820


 24.6880, 0.2440,  
0.1820


276.2806, 0.2820,  
0.2532


 15.8448, 0.2338,  
0.1657


 51.1506, 0.2585,  
0.2069

 9.4144, 0.2204,  
0.1457


 69.5388, 0.2637,  
0.2166

 5.0124, 0.2025,  
0.1212


 91.8774, 0.2681,  
0.2249

 2.2546, 0.1776,  
0.0913

118.5508, 0.2718,  
0.2321

 0.7495, 0.1425,  
0.0555

149.9434, 0.2749,  
0.2384

 0.0000, 0.0919,  
0.0000

186.4397, 0.2776,

 0.0000, 0.0000,

0.2439

0.0000

228.4239, 0.2800,  
0.2488

■ 24.6880, 0.2440,  
0.1820

■ 24.6880, 0.2440,  
0.1820

■ 18.5988, 0.2266,  
0.1505

■ 32.3022, 0.2608,  
0.2145

■ 13.9246, 0.2095,  
0.1220

■ 41.5354, 0.2763,  
0.2465

■ 10.5447, 0.1936,  
0.0985

■ 52.4768, 0.2903,  
0.2768

■ 8.3157, 0.1800,  
0.0814

■ 65.2086, 0.3025,  
0.3048

■ 7.0081, 0.1692,  
0.0707

■ 79.8073, 0.3132,  
0.3301

■ 6.9590, 0.1687,  
0.0703

■ 96.3450, 0.3222,  
0.3527

■ 98.4916, 0.3274,  
0.3533

# Harmonies

## Analogous

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



24.6880, 0.1729, 0.1714



24.6880, 0.2440, 0.1820



24.6880, 0.3512, 0.2191

# Triad

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



24.6880, 0.2440, 0.1820



24.6880, 0.5132, 0.4208



24.6880, 0.1727, 0.3658

# Complementary

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



24.6880, 0.2440, 0.1820



69.5782, 0.3593, 0.4611

# 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.



24.6880, 0.2488, 0.4931



24.6880, 0.2440, 0.1820



24.6880, 0.4439, 0.4964

# Square

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



24.6880, 0.2440, 0.1820



24.6880, 0.5269, 0.3460



24.6880, 0.3482, 0.5403



24.6880, 0.1373, 0.2528



# Rectangle

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



24.6880, 0.2440, 0.1820



24.6880, 0.4295, 0.2561



24.6880, 0.3482, 0.5403



24.6880, 0.1938, 0.4112

# Sweetspot

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



24.6889, 0.2440, 0.1820



73.2347, 0.2960, 0.2896



49.6709, 0.2398, 0.2863



14.9618, 0.2933, 0.2836



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.



24.6889, 0.2440, 0.1820



23.6563, 0.2270, 0.1512



31.2270, 0.2945, 0.2009



14.0942, 0.3027, 0.3050



3.9962, 0.1701, 0.0711



0.3422, 0.1857, 0.0797



# Inverse Universe

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



33.3010, 0.3533, 0.2409



35.9337, 0.3646, 0.2263



63.4767, 0.3201, 0.4794



14.5382, 0.3183, 0.3126



11.0131, 0.4135, 0.2052

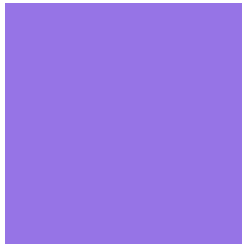


0.8300, 0.3968, 0.1959



# Previews

## White Background



This preview shows how the Yxy color 24.6880, 0.2440, 0.1820 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

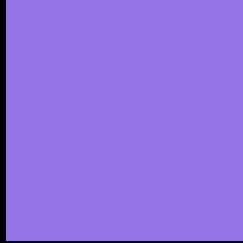
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.6880, 0.2440, 0.1820 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 × Fail

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

**Yxy 24.6880, 0.2440, 0.1820**

## Background



This preview shows how black text looks on a background with the Yxy color 24.6880, 0.2440, 0.1820.

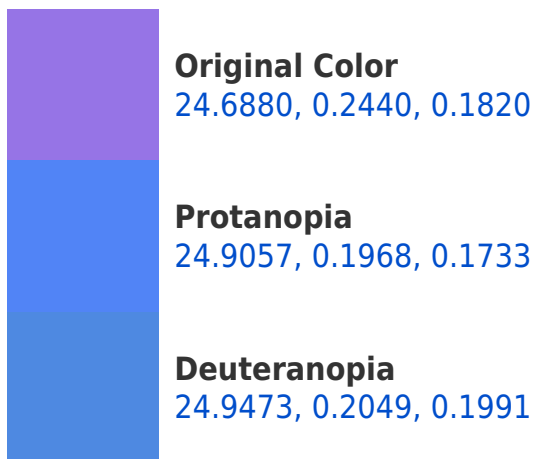


This preview shows how white text looks on a background with the Yxy color 24.6880, 0.2440, 0.1820.

# 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





## Tritanopia

24.6204, 0.2974, 0.3104

# Trichromacy



**Original Color**

24.6880, 0.2440, 0.1820

**Protanomaly**

24.2772, 0.2096, 0.1747

**Deuteranomaly**

24.1896, 0.2151, 0.1897

**Tritanomaly**

24.3638, 0.2762, 0.2546

# Monochromacy



**Original Color**

24.6880, 0.2440, 0.1820

**Achromatopsia**

25.8183, 0.3127, 0.3290

**Achromatomaly**

25.0508, 0.2849, 0.2654

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.6880, 0.2440, 0.1820 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(150, 116, 230)` looks like.

```
.text, #text, p{  
    color:rgb(150, 116, 230)  
}
```

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(150, 116, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 116, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 24.6880, 0.2440, 0.1820 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(150, 116, 230) }
```

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

```
.border{ border-color:rgb(150, 116, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 116, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 116, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 116, 230);  
box-shadow:4px 4px 4px 4px rgb(150, 116,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.6880, 0.2440, 0.1820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 116, 230) }
```

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

```
.background{ background-color: rgb(150,  
116, 230) }
```

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