

# Converting Colors

$Y_{xy}(23.8500, 0.4473, 0.2244)$

Have a look what the booklet for  
Yxy(23.8500, 0.4473, 0.2244)  
contains.

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**Color**

**Yxy(23.8500, 0.4473, 0.2244)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF049F
RGB	255, 4, 159
RGB Percent	100%, 2%, 62%
CMY	0.0000, 0.9840, 0.3765
CMYK	0.00, 0.98, 0.38, 0.00
HSL	323°, 100%, 51%
HSV	323°, 98%, 100%
XYZ	47.5406, 23.8500, 34.8928
YIQ	96.7190, 99.8410, 101.4170

# Conversions

## Conversions Part 2

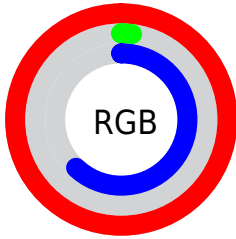
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 4, 159
Decimal	16712863
CIELab	55.94, 86.82, -12.83
CIELCh	56, 87.767, 351.592
Yxy	23.8500, 0.4473, 0.2244
Android (android.graphics.Color)	4294902943 (0xFFFF049F)
YUV	96.7190, 30.7045, 138.8124
Hunter-Lab	48.8365, 88.2997, -8.1762

# Details

The Yxy color **23.8500, 0.4473, 0.2244** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **72.4682, 0.2831, 0.5382**, and the grayscale version is **11.7982, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.6178, 0.3607, 0.2210**, and **12.2892, 0.4700, 0.2363** is the 20% darker color. If you saturate the color by 10%, you get **23.7089, 0.4500, 0.2253**, and if you desaturate by 10%, it is **25.0224, 0.4302, 0.2204**.

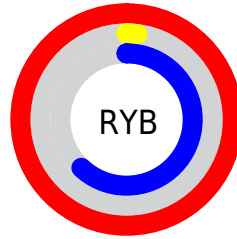
# Distribution



Red (100%)

Green (2%)

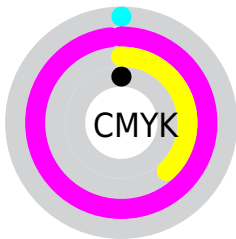
Blue (62%)



Red (100%)

Yellow (2%)

Blue (62%)

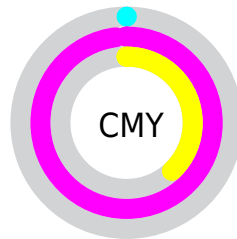


Cyan (0%)

Magenta (98%)

Yellow (38%)

Black (0%)



Cyan (0%)

Magenta (98%)


Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.8500, 0.4473, 0.2244 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 23.8500, 0.4473, 0.2244 by changing the saturation by 10% instead.





 23.8500, 0.4473,  
0.2244


 23.8500, 0.4473,  
0.2244


272.0613, 0.3756,  
0.2780


 15.2224, 0.4664,  
0.2109


 49.7853, 0.4203,  
0.2441


 8.9756, 0.4916,  
0.1935


 67.8618, 0.4104,  
0.2514


 4.7253, 0.5261,  
0.1706


 89.8567, 0.4022,  
0.2576

 2.0870, 0.5754,  
0.1396

 116.1544, 0.3952,  
0.2629

 0.6573, 0.6516,  
0.0944

 147.1393, 0.3893,  
0.2674

 0.0000, 0.8314,  
0.0000

183.1958, 0.3841,

 0.0000, 1.0000,

0.2714

0.0000

224.7084, 0.3796,  
0.2749

■ 0.0000, 0.0000,  
0.0000

■ 23.8500, 0.4473,  
0.2244

■ 23.8500, 0.4473,  
0.2244

■ 23.7089, 0.4500,  
0.2253

■ 25.0224, 0.4302,  
0.2204

■ 27.2345, 0.4125,  
0.2216

■ 30.7246, 0.3950,  
0.2279

■ 35.6624, 0.3783,  
0.2384

■ 42.1916, 0.3630,  
0.2520

■ 50.4383, 0.3494,  
0.2674

■ 60.5157, 0.3376,  
0.2837

■ 72.5276, 0.3274,  
0.3002

■ 86.5697, 0.3188,  
0.3162

# Harmonies

## Analogous

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



23.8500, 0.2898, 0.1672



23.8500, 0.4473, 0.2244



23.8500, 0.5708, 0.2979

# Triad

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



23.8500, 0.4473, 0.2244



23.8500, 0.3957, 0.5791



23.8500, 0.0946, 0.1779

# Complementary

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



23.8500, 0.4473, 0.2244



72.4682, 0.2831, 0.5382

# 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.



23.8500, 0.1068, 0.2809



23.8500, 0.4473, 0.2244



23.8500, 0.2732, 0.6099

# Square

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



23.8500, 0.4473, 0.2244



23.8500, 0.5108, 0.4758



23.8500, 0.1658, 0.4674



23.8500, 0.1165, 0.1391



# Rectangle

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



23.8500, 0.4473, 0.2244



23.8500, 0.5926, 0.3505



23.8500, 0.1658, 0.4674



23.8500, 0.0946, 0.2032

# Sweetspot

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



23.8513, 0.4473, 0.2244



58.7762, 0.3393, 0.2811



9.7999, 0.1791, 0.0766



11.6494, 0.3442, 0.2742



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.



23.8513, 0.4473, 0.2244



23.7089, 0.4500, 0.2253



21.4855, 0.6226, 0.3214



18.1756, 0.3197, 0.3144



12.4185, 0.4473, 0.2238



1.2305, 0.4290, 0.2137



# Inverse Universe

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



23.8513, 0.4473, 0.2244



23.7089, 0.4500, 0.2253



76.7958, 0.2367, 0.3714



18.1756, 0.3197, 0.3144



12.4185, 0.4473, 0.2238



1.2305, 0.4290, 0.2137



# Previews

## White Background



This preview shows how the Yxy color 23.8500, 0.4473, 0.2244 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

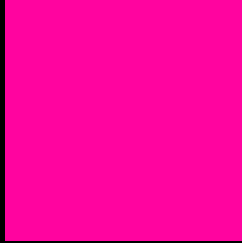
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 23.8500, 0.4473, 0.2244 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 23.8500, 0.4473, 0.2244**

## **Background**



This preview shows how black text looks on a background with the Yxy color 23.8500, 0.4473, 0.2244.



This preview shows how white text looks on a background with the Yxy color 23.8500, 0.4473, 0.2244.

# 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

23.8500, 0.4473, 0.2244

### Protanopia

24.5369, 0.2104, 0.1914

### Deuteranopia

24.1215, 0.3073, 0.3011



## Tritanopia

24.0764, 0.5701, 0.3284

# Trichromacy



## Original Color

23.8500, 0.4473, 0.2244



## Protanomaly

17.5811, 0.2632, 0.1703



## Deuteranomaly

18.8313, 0.3595, 0.2380



## Tritanomaly

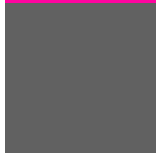
23.0660, 0.5363, 0.2886

# Monochromacy



## Original Color

23.8500, 0.4473, 0.2244



## Achromatopsia

11.9538, 0.3127, 0.3290



## Achromatomaly

11.7811, 0.3748, 0.2388

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.8500, 0.4473, 0.2244 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(255, 4, 159)` looks like.

```
.text, #text, p{  
    color:rgb(255, 4, 159)  
}
```

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(255, 4, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 4, 159) }
```

## Border

The CSS property to change the border of an element to Yxy 23.8500, 0.4473, 0.2244 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(255, 4, 159) }
```

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

```
.border{ border-color:rgb(255, 4, 159) }
```

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

Here you see how a box with a 4 pixel rgb(255, 4, 159) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 4, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 4, 159);  
box-shadow:4px 4px 4px 4px rgb(255, 4,  
159) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.8500, 0.4473, 0.2244 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 4, 159) }
```

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

```
.background{ background-color: rgb(255, 4,  
159) }
```

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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