

# Converting Colors

$Y_{xy}(21.1748, 0.4593, 0.1920)$

Have a look what the booklet for  
Yxy(21.1748, 0.4593, 0.1920)  
contains.

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**Color**

**Yxy(24.0872, 0.4331, 0.2159)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF00A8
RGB	255, 0, 168
RGB Percent	100%, 0%, 66%
CMY	0.0000, 1.0000, 0.3411
CMYK	0.00, 1.00, 0.34, 0.00
HSL	320°, 100%, 50%
HSV	320°, 100%, 100%
XYZ	48.3194, 24.0872, 39.1598
YIQ	95.3970, 98.0520, 106.3080

# Conversions

## Conversions Part 2

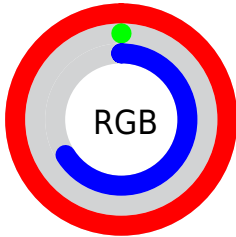
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 168
Decimal	16711848
CIELab	56.17, 87.95, -17.79
CIELCh	56, 89.736, 348.565
Yxy	24.0872, 0.4331, 0.2159
Android (android.graphics.Color)	4294901928 (0xFFFF00A8)
YUV	95.3970, 35.7933, 139.9718
Hunter-Lab	49.0787, 89.8508, -12.9523

# Details

The Yxy color **24.0872, 0.4331, 0.2159** 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 **72.2077, 0.2868, 0.5526**, and the grayscale version is **11.4392, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.8951, 0.3509, 0.2127**, and **12.4674, 0.4528, 0.2268** is the 20% darker color. If you saturate the color by 10%, you get **24.0880, 0.4330, 0.2159**, and if you desaturate by 10%, it is **25.1401, 0.4183, 0.2124**.

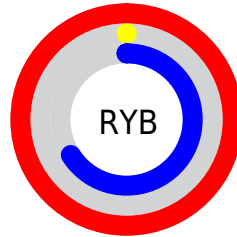
# Distribution



Red (100%)

Green (0%)

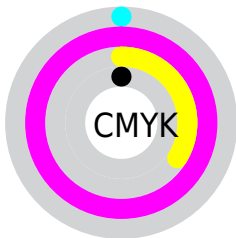
Blue (66%)



Red (100%)

Yellow (0%)

Blue (66%)

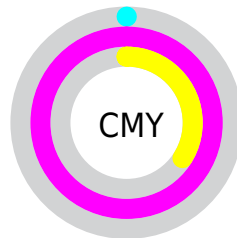


Cyan (0%)

Magenta (100%)

Yellow (34%)

Black (0%)



Cyan (0%)

Magenta (100%)


Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.0872, 0.4331, 0.2159 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 24.0872, 0.4331, 0.2159 by changing the saturation by 10% instead.





 24.0872, 0.4331,  
0.2159


 24.0872, 0.4331,  
0.2159


273.2610, 0.3699,  
0.2727


 15.3983, 0.4496,  
0.2019


 50.1725, 0.4095,  
0.2365

 9.0994, 0.4712,  
0.1842


 68.3376, 0.4009,  
0.2442


 4.8061, 0.5005,  
0.1612


 90.4303, 0.3936,  
0.2508

 2.1339, 0.5418,  
0.1306

 116.8350, 0.3874,  
0.2565

 0.6836, 0.6044,  
0.0879

 147.9360, 0.3821,  
0.2613

 0.0000, 0.7290,  
0.0000

184.1178, 0.3775,

 0.0000, 1.0000,

0.2656

0.0000

225.7646, 0.3735,  
0.2694

■ 0.0000, 0.0000,  
0.0000

■ 24.0872, 0.4331,  
0.2159

■ 24.0872, 0.4331,  
0.2159

■ 24.0880, 0.4330,  
0.2159

■ 25.1401, 0.4183,  
0.2124

■ 27.1482, 0.4032,  
0.2137

■ 30.3983, 0.3880,  
0.2200

■ 35.0657, 0.3734,  
0.2307

■ 41.2971, 0.3598,  
0.2447

■ 49.2209, 0.3475,  
0.2608

■ 58.9521, 0.3367,  
0.2781

■ 70.5956, 0.3274,  
0.2955

■ 84.2481, 0.3194,  
0.3126

# Harmonies

## Analogous

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



24.0872, 0.2749, 0.1608



24.0872, 0.4331, 0.2159



24.0872, 0.5672, 0.2890

# Triad

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



24.0872, 0.4331, 0.2159



24.0872, 0.4077, 0.5727



24.0872, 0.0918, 0.1823

# Complementary

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



24.0872, 0.4331, 0.2159



72.2077, 0.2868, 0.5526

# 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.



24.0872, 0.1076, 0.2951



24.0872, 0.4331, 0.2159



24.0872, 0.2837, 0.6199

# Square

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



24.0872, 0.4331, 0.2159



24.0872, 0.5226, 0.4654



24.0872, 0.1723, 0.4911



24.0872, 0.1105, 0.1387



# Rectangle

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



24.0872, 0.4331, 0.2159



24.0872, 0.5969, 0.3412



24.0872, 0.1723, 0.4911



24.0872, 0.0928, 0.2102

# Sweetspot

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



24.0880, 0.4330, 0.2159



58.9521, 0.3367, 0.2781



9.1513, 0.1727, 0.0725



11.6913, 0.3411, 0.2707



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.



24.0880, 0.4330, 0.2159



21.4308, 0.6193, 0.3186



18.1889, 0.3191, 0.3135



12.6156, 0.4307, 0.2146



1.2488, 0.4149, 0.2059

# Inverse Universe

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



24.0880, 0.4330, 0.2159



76.2987, 0.2399, 0.3837



18.1889, 0.3191, 0.3135



12.6156, 0.4307, 0.2146



1.2488, 0.4149, 0.2059

# Previews

## White Background



This preview shows how the Yxy color 24.0872, 0.4331, 0.2159 looks on a white background.

## Color Contrast Check

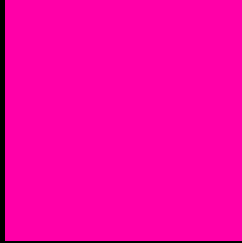
Large Text (above 18pt) WCAG AA ✓ Pass

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 24.0872, 0.4331, 0.2159 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 24.0872, 0.4331, 0.2159**

## Background



This preview shows how black text looks on a background with the Yxy color 24.0872, 0.4331, 0.2159.



This preview shows how white text looks on a background with the Yxy color 24.0872, 0.4331, 0.2159.



# 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

24.0872, 0.4331, 0.2159

### Protanopia

25.0448, 0.2014, 0.1804

### Deuteranopia

24.6983, 0.2950, 0.2900



## Tritanopia

24.4658, 0.5635, 0.3276

# Trichromacy



## Original Color

24.0872, 0.4331, 0.2159



## Protanomaly

17.5551, 0.2481, 0.1588



## Deuteranomaly

18.8940, 0.3442, 0.2263



## Tritanomaly

23.1851, 0.5269, 0.2831

# Monochromacy



## Original Color

24.0872, 0.4331, 0.2159



## Achromatopsia

11.4435, 0.3127, 0.3290



## Achromatomaly

11.4092, 0.3703, 0.2313

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.0872, 0.4331, 0.2159 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, 0, 168)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 168)  
}
```

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, 0, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 24.0872, 0.4331, 0.2159 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, 0, 168) }
```

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

```
.border{ border-color:rgb(255, 0, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 0, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 168);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
168) }
```

# Background

The CSS property to change the background color of an element to Yxy 24.0872, 0.4331, 0.2159 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 168) }
```

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

```
.background{ background-color: rgb(255, 0,  
168) }
```

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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