

# Converting Colors

$Y_{xy}(25.0331, 0.5132, 0.2155)$

Have a look what the booklet for  
Yxy(25.0331, 0.5132, 0.2155)  
contains.

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**Color**

**Yxy(23.5270, 0.4589, 0.2302)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0098
RGB	255, 0, 152
RGB Percent	100%, 0%, 60%
CMY	0.0001, 0.9989, 0.4039
CMYK	0.00, 1.00, 0.40, 0.00
HSL	324°, 100%, 50%
HSV	324°, 100%, 100%
XYZ	46.9007, 23.5270, 31.7747
YIQ	93.5730, 103.1880, 101.3320

# Conversions

## Conversions Part 2

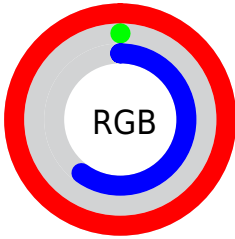
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 152
Decimal	16711832
CIELab	55.61, 86.44, -9.19
CIElCh	56, 86.928, 353.930
Yxy	23.5270, 0.4589, 0.2302
Android (android.graphics.Color)	4294901912 (0xFFFF0098)
YUV	93.5730, 28.8045, 141.5715
Hunter-Lab	48.5046, 87.7143, -4.8868

# Details

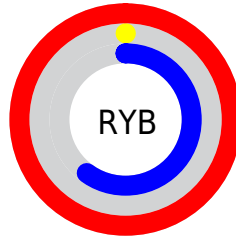
The Yxy color **23.5270, 0.4589, 0.2302** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **72.4904, 0.2819, 0.5347**, and the grayscale version is **11.0392, 0.3127, 0.3290**.

A 20% lighter version of the original color is **34.8306, 0.3700, 0.2263**, and **12.1461, 0.4854, 0.2448** is the 20% darker color. If you saturate the color by 10%, you get **23.5186, 0.4591, 0.2303**, and if you desaturate by 10%, it is **24.6039, 0.4405, 0.2251**.

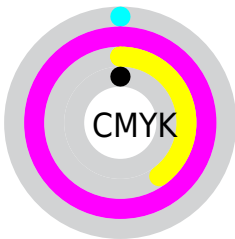
# Distribution



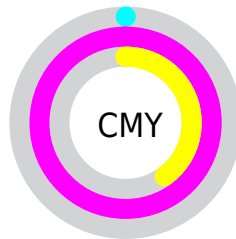
- Red (100%)
- Green (0%)
- Blue (60%)



- Red (100%)
- Yellow (0%)
- Blue (60%)



- Cyan (0%)
- Magenta (100%)
- Yellow (40%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.5270, 0.4589, 0.2302 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 23.5270, 0.4589, 0.2302 by changing the saturation by 10% instead.





 23.5270, 0.4589,  
0.2302


 23.5270, 0.4589,  
0.2302


270.4203, 0.3803,  
0.2817


 14.9831, 0.4801,  
0.2169


 49.2572, 0.4291,  
0.2493

 8.8075, 0.5082,  
0.1997


 67.2124, 0.4183,  
0.2563


 4.6159, 0.5469,  
0.1768


 89.0734, 0.4092,  
0.2623

 2.0237, 0.6025,  
0.1452

 115.2246, 0.4016,  
0.2673

 0.6212, 0.6893,  
0.0972

 146.0506, 0.3951,  
0.2717

 0.0000, 0.9445,  
0.0000

181.9356, 0.3895,

 0.0000, 1.0000,

0.2754

0.0000

223.2640, 0.3846,  
0.2787

■ 0.0000, 0.0000,  
0.0000

■ 23.5270, 0.4589,  
0.2302

■ 23.5270, 0.4589,  
0.2302

■ 23.5186, 0.4591,  
0.2303

■ 24.6039, 0.4405,  
0.2251

■ 26.6494, 0.4216,  
0.2250

■ 29.9472, 0.4027,  
0.2301

■ 34.6721, 0.3847,  
0.2396

■ 40.9710, 0.3682,  
0.2524

■ 48.9723, 0.3534,  
0.2671

■ 58.7912, 0.3406,  
0.2829

■ 70.5326, 0.3296,  
0.2988

■ 84.2935, 0.3204,  
0.3143

# Harmonies

## Analogous

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



23.5270, 0.3011, 0.1712



23.5270, 0.4589, 0.2302



23.5270, 0.5749, 0.3043

# Triad

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



23.5270, 0.4589, 0.2302



23.5270, 0.3863, 0.5848



23.5270, 0.0958, 0.1737

# Complementary

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



23.5270, 0.4589, 0.2302



72.4904, 0.2819, 0.5347

# 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.



23.5270, 0.1051, 0.2701



23.5270, 0.4589, 0.2302



23.5270, 0.2644, 0.6037

# Square

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



23.5270, 0.4589, 0.2302



23.5270, 0.5024, 0.4840



23.5270, 0.1599, 0.4509



23.5270, 0.1203, 0.1385



# Rectangle

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



23.5270, 0.4589, 0.2302



23.5270, 0.5908, 0.3572



23.5270, 0.1599, 0.4509



23.5270, 0.0949, 0.1972

# Sweetspot

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



23.5284, 0.4589, 0.2302



58.6858, 0.3407, 0.2827



10.0585, 0.1827, 0.0780



11.6278, 0.3459, 0.2760



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.



23.5284, 0.4589, 0.2302



23.5238, 0.4591, 0.2303



21.3348, 0.6309, 0.3250



18.1688, 0.3200, 0.3149



12.3220, 0.4562, 0.2287



1.2214, 0.4365, 0.2178



# Inverse Universe

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



23.5284, 0.4589, 0.2302



23.5238, 0.4591, 0.2303



77.1914, 0.2336, 0.3608



18.1688, 0.3200, 0.3149



12.3220, 0.4562, 0.2287



1.2214, 0.4365, 0.2178



# Previews

## White Background



This preview shows how the Yxy color 23.5270, 0.4589, 0.2302 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

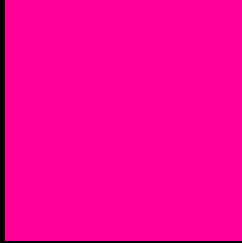
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 23.5270, 0.4589, 0.2302 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 23.5270, 0.4589, 0.2302**

## Background



This preview shows how black text looks on a background with the Yxy color 23.5270, 0.4589, 0.2302.



This preview shows how white text looks on a background with the Yxy color 23.5270, 0.4589, 0.2302.

# 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

23.5270, 0.4589, 0.2302

### Protanopia

24.3312, 0.2185, 0.2023

### Deuteranopia

23.9081, 0.3182, 0.3109



## Tritanopia

23.9035, 0.5759, 0.3285

# Trichromacy



## Original Color

23.5270, 0.4589, 0.2302



## Protanomaly

17.4038, 0.2758, 0.1790



## Deuteranomaly

18.5451, 0.3730, 0.2452



## Tritanomaly

22.9079, 0.5445, 0.2907

# Monochromacy



## Original Color

23.5270, 0.4589, 0.2302



## Achromatopsia

11.1932, 0.3127, 0.3290



## Achromatomaly

11.2418, 0.3835, 0.2416

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.5270, 0.4589, 0.2302 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, 152)` looks like.

```
.text, #text, p{  
  color:rgb(255, 0, 152)  
}
```

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, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 152) }
```

## Border

The CSS property to change the border of an element to Yxy 23.5270, 0.4589, 0.2302 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, 152) }
```

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

```
.border{ border-color:rgb(255, 0, 152) }
```

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, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 152);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
152) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.5270, 0.4589, 0.2302 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, 152) }
```

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

```
.background{ background-color: rgb(255, 0,  
152) }
```

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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