

# Converting Colors

$Y_{xy}(24.4123, 0.2964, 0.1419)$

Have a look what the booklet for  
Yxy(24.4123, 0.2964, 0.1419)  
contains.

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# Color

**Yxy(24.4968, 0.2969, 0.1422)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E70DFF
RGB	231, 13, 255
RGB Percent	91%, 5%, 100%
CMY	0.0941, 0.9488, 0.0001
CMYK	0.09, 0.95, 0.00, 0.00
HSL	294°, 100%, 53%
HSV	294°, 95%, 100%
XYZ	51.1470, 24.4968, 96.6263
YIQ	105.7700, 52.2460, 121.4780

# Conversions

## Conversions Part 2

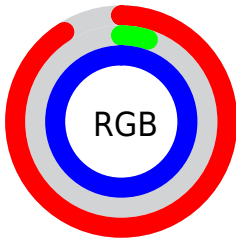
Format	Color
R <sub>Y</sub> B	231, 13, 255
Decimal	15142399
CIE Lab	56.58, 93.84, -67.05
CIE LCh	57, 115.333, 324.451
Yxy	24.4968, 0.2969, 0.1422
Android (android.graphics.Color)	4293332479 (0xFFE70DFF)
YUV	105.7700, 73.5704, 109.8267
Hunter-Lab	49.4942, 97.8456, -81.1043

# Details

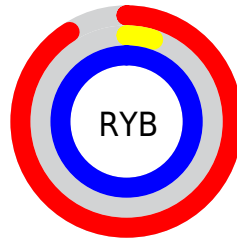
The Yxy color **24.4968, 0.2969, 0.1422** is a light color, and the websafe version is hex **FF00FF**. The color can be described as light saturated magenta. A complement of this color would be **71.9330, 0.3028, 0.5952**, and the grayscale version is **14.1426, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.3806, 0.3192, 0.1907**, and **12.5773, 0.2864, 0.1351** is the 20% darker color. If you saturate the color by 10%, you get **23.9937, 0.2956, 0.1402**, and if you desaturate by 10%, it is **26.0545, 0.2994, 0.1485**.

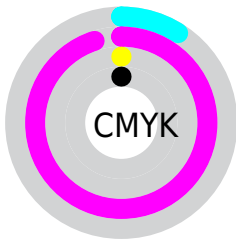
# Distribution



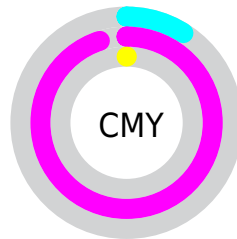
- Red (91%)
- Green (5%)
- Blue (100%)



- Red (91%)
- Yellow (5%)
- Blue (100%)



- Cyan (9%)
- Magenta (95%)
- Yellow (0%)
- Black (0%)




- Cyan (9%)
- Magenta (95%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.4968, 0.2969, 0.1422 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 24.4968, 0.2969, 0.1422 by changing the saturation by 10% instead.





 24.4968, 0.2969,  
0.1422


 24.4968, 0.2969,  
0.1422


275.3226, 0.3109,  
0.2243


 15.7026, 0.2921,  
0.1255


 50.8397, 0.3031,  
0.1692


 9.3139, 0.2853,  
0.1062


 69.1571, 0.3051,  
0.1802

 4.9465, 0.2755,  
0.0840


 91.4178, 0.3067,  
0.1899

 2.2159, 0.2610,  
0.0592

 118.0060, 0.3079,  
0.1984

 0.7286, 0.2388,  
0.0328

 149.3062, 0.3089,  
0.2060

 0.0000, 0.2060,  
0.0000

185.7028, 0.3097,

 0.0000, 0.1502,

0.2127

0.0000

227.5801, 0.3103,  
0.2188

■ 0.0000, 0.0000,  
0.0000

■ 24.4968, 0.2969,  
0.1422

■ 24.4968, 0.2969,  
0.1422

■ 23.9937, 0.2956,  
0.1402

■ 26.0545, 0.2994,  
0.1485

■ 28.7355, 0.3019,  
0.1592

■ 32.7359, 0.3042,  
0.1743

■ 38.2144, 0.3063,  
0.1935

■ 45.3071, 0.3082,  
0.2158

■ 54.1346, 0.3097,  
0.2403

■ 64.8062, 0.3109,  
0.2660

■ 77.4220, 0.3118,  
0.2918

■ 92.0750, 0.3125,  
0.3171

# Harmonies

## Analogous

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



24.4968, 0.1577, 0.1084



24.4968, 0.2969, 0.1422



24.4968, 0.5022, 0.2069

# Triad

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



24.4968, 0.2969, 0.1422



24.4968, 0.5136, 0.4864



24.4968, 0.0672, 0.2410

# Complementary

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



24.4968, 0.2969, 0.1422



71.9330, 0.3028, 0.5952

# 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.



24.4968, 0.1168, 0.4845



24.4968, 0.2969, 0.1422



24.4968, 0.3664, 0.6336

# Square

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



24.4968, 0.2969, 0.1422



24.4968, 0.6274, 0.3687



24.4968, 0.2272, 0.6969



24.4968, 0.0632, 0.1371



# Rectangle

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



24.4968, 0.2969, 0.1422



24.4968, 0.6134, 0.2583



24.4968, 0.2272, 0.6969



24.4968, 0.0771, 0.3050

# Sweetspot

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



24.4979, 0.2969, 0.1422



61.2773, 0.3106, 0.2579



8.6442, 0.1538, 0.0704



12.1353, 0.3100, 0.2468



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.



24.4979, 0.2969, 0.1422



23.9971, 0.2956, 0.1402



24.0225, 0.4481, 0.2263



18.2035, 0.3122, 0.3055



12.5763, 0.2960, 0.1404



1.2499, 0.2990, 0.1421



# Inverse Universe

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



21.6803, 0.6213, 0.3229



21.3314, 0.6312, 0.3251



72.7178, 0.2803, 0.5264



18.0163, 0.3279, 0.3267



11.1557, 0.6290, 0.3238



1.0955, 0.6078, 0.3122



# Previews

## White Background



This preview shows how the Yxy color 24.4968, 0.2969, 0.1422 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

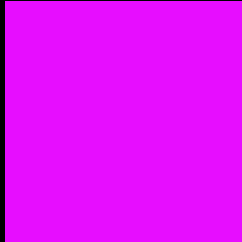
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.4968, 0.2969, 0.1422 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 24.4968, 0.2969, 0.1422**

## Background



This preview shows how black text looks on a background with the Yxy color 24.4968, 0.2969, 0.1422.



This preview shows how white text looks on a background with the Yxy color 24.4968, 0.2969, 0.1422.

# 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

24.4968, 0.2969, 0.1422

### Protanopia

25.2240, 0.1896, 0.1659

### Deuteranopia

25.0491, 0.1895, 0.1830



## Tritanopia

24.3220, 0.4574, 0.3211

# Trichromacy



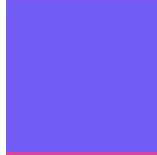
## Original Color

24.4968, 0.2969, 0.1422



## Protanomaly

18.8768, 0.2082, 0.1294



## Deuteranomaly

17.9320, 0.2037, 0.1343



## Tritanomaly

21.9231, 0.3965, 0.2286

# Monochromacy



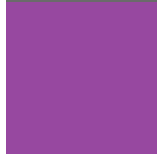
## Original Color

24.4968, 0.2969, 0.1422



## Achromatopsia

14.4128, 0.3127, 0.3290



## Achromatomaly

13.7521, 0.3062, 0.1966

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.4968, 0.2969, 0.1422 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(231, 13, 255)` looks like.

```
.text, #text, p{  
    color:rgb(231, 13, 255)  
}
```

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(231, 13, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 13, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 24.4968, 0.2969, 0.1422 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(231, 13, 255) }
```

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

```
.border{ border-color:rgb(231, 13, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 13, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 13, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 13, 255);  
box-shadow:4px 4px 4px 4px rgb(231, 13,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.4968, 0.2969, 0.1422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 13, 255) }
```

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

```
.background{ background-color: rgb(231, 13,  
255) }
```

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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