

# Converting Colors

$Y_{xy}(31.3965, 0.3270, 0.1903)$

Have a look what the booklet for  
Yxy(31.3965, 0.3270, 0.1903)  
contains.

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**Color**

**Yxy(31.4962, 0.3274, 0.1907)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F059E8
RGB	240, 89, 232
RGB Percent	94%, 35%, 91%
CMY	0.0588, 0.6510, 0.0901
CMYK	0.00, 0.63, 0.03, 0.06
HSL	303°, 83%, 65%
HSV	303°, 63%, 94%
XYZ	54.0737, 31.4962, 79.5911
YIQ	150.4510, 44.0930, 76.4850

# Conversions

## Conversions Part 2

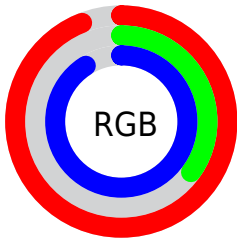
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	240, 89, 232
Decimal	15751656
CIE Lab	62.92, 74.11, -44.09
CIE LCh	63, 86.234, 329.254
Yxy	31.4962, 0.3274, 0.1907
Android (android.graphics.Color)	4293941736 (0xFFFF059E8)
YUV	150.4510, 40.2037, 78.5345
Hunter-Lab	56.1215, 73.7743, -44.7996

# Details

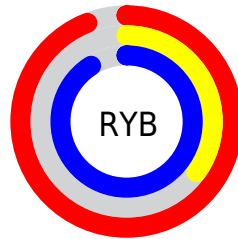
The Yxy color **31.4962, 0.3274, 0.1907** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **65.3031, 0.3003, 0.5238**, and the grayscale version is **30.5144, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.6598, 0.3176, 0.2257**, and **13.0550, 0.3264, 0.1592** is the 20% darker color. If you saturate the color by 10%, you get **28.0614, 0.3297, 0.1772**, and if you desaturate by 10%, it is **36.2357, 0.3250, 0.2081**.

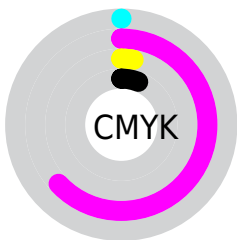
# Distribution



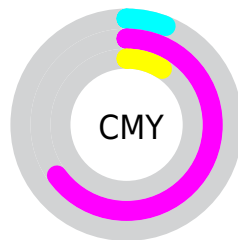
- Red (94%)
- Green (35%)
- Blue (91%)



- Red (94%)
- Yellow (35%)
- Blue (91%)



- Cyan (0%)
- Magenta (63%)
- Yellow (3%)
- Black (6%)




- Cyan (6%)
- Magenta (65%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.4962, 0.3274, 0.1907 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 31.4962, 0.3274, 0.1907 by changing the saturation by 10% instead.





 31.4962, 0.3274,  
0.1907

 31.4962, 0.3274,  
0.1907


308.8178, 0.3232,  
0.2542


 20.9770, 0.3276,  
0.1767

 62.0205, 0.3266,  
0.2124

 13.1072, 0.3273,  
0.1598

 82.7943, 0.3260,  
0.2210

 7.5024, 0.3263,  
0.1391


 107.7551, 0.3255,  
0.2284

 3.7782, 0.3236,  
0.1136

 137.2873, 0.3250,  
0.2349

 1.5503, 0.3175,  
0.0824

171.7753, 0.3245,  
0.2406

 0.3237, 0.3073,  
0.0347

211.6034, 0.3241,

 0.0000, 0.2748,

0.2457

0.0000

257.1561, 0.3236,  
0.2502

■ 0.0000, 0.0120,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 31.4962, 0.3274,  
0.1907

■ 31.4962, 0.3274,  
0.1907

■ 28.0614, 0.3297,  
0.1772

■ 36.2357, 0.3250,  
0.2081

■ 25.7952, 0.3318,  
0.1680


■ 42.3897, 0.3224,  
0.2285

■ 24.5392, 0.3336,  
0.1632


■ 50.0616, 0.3200,  
0.2511


■ 24.0882, 0.3348,  
0.1618

■ 59.3437, 0.3176,  
0.2748

 70.3211, 0.3153,  
0.2988

 83.0728, 0.3133,  
0.3223

 96.3885, 0.3115,  
0.3429

 96.4644, 0.3108,  
0.3417

 96.5408, 0.3101,  
0.3404

# Harmonies

## Analogous

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



31.4962, 0.2099, 0.1556



31.4962, 0.3274, 0.1907



31.4962, 0.4694, 0.2508

# Triad

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



31.4962, 0.3274, 0.1907



31.4962, 0.4768, 0.4967



31.4962, 0.1153, 0.2567

# Complementary

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



31.4962, 0.3274, 0.1907



65.3031, 0.3003, 0.5238

# 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.



31.4962, 0.1609, 0.4069



31.4962, 0.3274, 0.1907



31.4962, 0.3681, 0.5759

# Square

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



31.4962, 0.3274, 0.1907



31.4962, 0.5540, 0.4044



31.4962, 0.2539, 0.5583



31.4962, 0.1111, 0.1773



# Rectangle

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



31.4962, 0.3274, 0.1907



31.4962, 0.5404, 0.2987



31.4962, 0.2539, 0.5583



31.4962, 0.1252, 0.2992

# Sweetspot

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



31.4977, 0.3274, 0.1907



72.7243, 0.3167, 0.2840



15.9540, 0.1944, 0.1283



14.8238, 0.3173, 0.2771



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.



31.4977, 0.3274, 0.1907



31.4855, 0.3302, 0.1747



28.1027, 0.4198, 0.2588



16.0162, 0.3146, 0.3069



13.1935, 0.3346, 0.1617



1.1020, 0.3326, 0.1606



# Inverse Universe

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



31.4977, 0.3274, 0.1907



31.4855, 0.3302, 0.1747



67.4209, 0.2671, 0.4215



16.0162, 0.3146, 0.3069



13.1935, 0.3346, 0.1617



1.1020, 0.3326, 0.1606



# Previews

## White Background



This preview shows how the Yxy color 31.4962, 0.3274, 0.1907 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

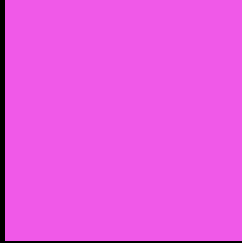
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.4962, 0.3274, 0.1907 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

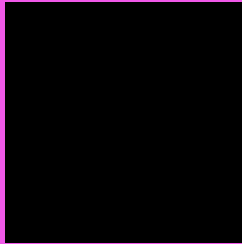
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.4962, 0.3274, 0.1907**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.4962, 0.3274, 0.1907.



This preview shows how white text looks on a background with the Yxy color 31.4962, 0.3274, 0.1907.

# 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

31.4962, 0.3274, 0.1907

### Protanopia

31.8407, 0.2105, 0.1923

### Deuteranopia

31.6922, 0.2364, 0.2300



## Tritanopia

31.2461, 0.4338, 0.3190

# Trichromacy



## Original Color

31.4962, 0.3274, 0.1907



## Protanomaly

28.8627, 0.2393, 0.1823



## Deuteranomaly

29.0363, 0.2621, 0.2048



## Tritanomaly

30.6341, 0.3933, 0.2647

# Monochromacy



## Original Color

31.4962, 0.3274, 0.1907



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

28.8009, 0.3192, 0.2591

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.4962, 0.3274, 0.1907 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(240, 89, 232)` looks like.

```
.text, #text, p{  
    color:rgb(240, 89, 232)  
}
```

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(240, 89, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 89, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 31.4962, 0.3274, 0.1907 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(240, 89, 232) }
```

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

```
.border{ border-color:rgb(240, 89, 232) }
```

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

Here you see how a box with a 4 pixel rgb(240, 89, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 89, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 89, 232);  
box-shadow:4px 4px 4px 4px rgb(240, 89,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.4962, 0.3274, 0.1907 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 89, 232) }
```

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

```
.background{ background-color: rgb(240, 89,  
232) }
```

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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