

# Converting Colors

$Y_{xy}(44.1040, 0.3881, 0.2050)$

Have a look what the booklet for  
Yxy(44.1040, 0.3881, 0.2050)  
contains.

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**Color**

**Yxy(31.5073, 0.3342, 0.1782)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF42F1
RGB	255, 66, 241
RGB Percent	100%, 26%, 95%
CMY	0.0000, 0.7417, 0.0548
CMYK	0.00, 0.74, 0.05, 0.00
HSL	304°, 100%, 63%
HSV	304°, 74%, 100%
XYZ	59.0894, 31.5073, 86.2119
YIQ	142.4610, 56.4690, 94.4930

# Conversions

## Conversions Part 2

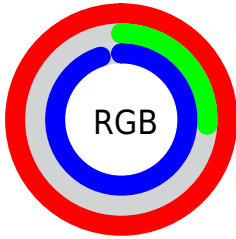
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 66, 241
Decimal	16728817
CIE Lab	62.93, 86.51, -48.93
CIE LCh	63, 99.387, 330.505
Yxy	31.5073, 0.3342, 0.1782
Android (android.graphics.Color)	4294918897 (0xFFFF42F1)
YUV	142.4610, 48.5797, 98.6967
Hunter-Lab	56.1314, 89.6769, -51.7713

# Details

The Yxy color **31.5073, 0.3342, 0.1782** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **73.2507, 0.2981, 0.5536**, and the grayscale version is **26.9995, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.9825, 0.3182, 0.2119**, and **14.9300, 0.3343, 0.1615** is the 20% darker color. If you saturate the color by 10%, you get **29.0438, 0.3369, 0.1698**, and if you desaturate by 10%, it is **35.2722, 0.3311, 0.1909**.

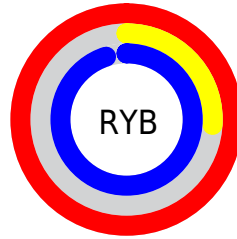
# Distribution



Red (100%)

Green (26%)

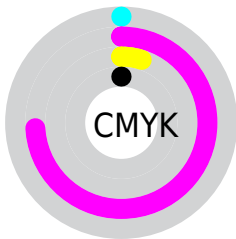
Blue (95%)



Red (100%)

Yellow (26%)

Blue (95%)

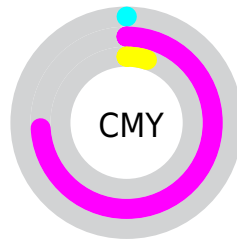


Cyan (0%)

Magenta (74%)

Yellow (5%)

Black (0%)



Cyan (0%)

Magenta (74%)


Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.5073, 0.3342, 0.1782 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 31.5073, 0.3342, 0.1782 by changing the saturation by 10% instead.





 31.5073, 0.3342,  
0.1782


 31.5073, 0.3342,  
0.1782

308.8687, 0.3274,  
0.2459


 20.9854, 0.3349,  
0.1637


 62.0379, 0.3325,  
0.2010


 13.1134, 0.3352,  
0.1464


 82.8154, 0.3317,  
0.2101

 7.5067, 0.3348,  
0.1256


 107.7803, 0.3308,  
0.2180

 3.7809, 0.3330,  
0.1006

 137.3169, 0.3300,  
0.2250

 1.5518, 0.3279,  
0.0710

171.8097, 0.3293,  
0.2311

 0.3248, 0.3190,  
0.0287

211.6429, 0.3286,

 0.0000, 0.2907,

0.2366

0.0000

257.2012, 0.3280,  
0.2415

0.0000, 0.1819,  
0.0000

0.0000, 0.0000,  
0.0000

31.5073, 0.3342,  
0.1782

31.5073, 0.3342,  
0.1782

29.0438, 0.3369,  
0.1698

35.2722, 0.3311,  
0.1909

27.7281, 0.3394,  
0.1659

40.5335, 0.3280,  
0.2076


27.3259, 0.3408,  
0.1651

47.4132, 0.3248,  
0.2275

56.0312, 0.3217,  
0.2495

 66.4957, 0.3188,  
0.2728

 78.9065, 0.3161,  
0.2964

 93.3561, 0.3137,  
0.3196

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



31.5073, 0.2013, 0.1399



31.5073, 0.3342, 0.1782



31.5073, 0.4979, 0.2428

# Triad

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



31.5073, 0.3342, 0.1782



31.5073, 0.4804, 0.5093



31.5073, 0.0948, 0.2380

# Complementary

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



31.5073, 0.3342, 0.1782



73.2507, 0.2981, 0.5536

# 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.



31.5073, 0.1378, 0.4086



31.5073, 0.3342, 0.1782



31.5073, 0.3575, 0.6087

# Square

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



31.5073, 0.3342, 0.1782



31.5073, 0.5747, 0.4040



31.5073, 0.2346, 0.5952



31.5073, 0.0938, 0.1572



# Rectangle

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



31.5073, 0.3342, 0.1782



31.5073, 0.5754, 0.2931



31.5073, 0.2346, 0.5952



31.5073, 0.1035, 0.2840

# Sweetspot

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



31.4946, 0.3341, 0.1782



69.0169, 0.3182, 0.2779



12.7418, 0.1759, 0.0967



14.1003, 0.3190, 0.2715



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.



31.4946, 0.3341, 0.1782



28.2800, 0.3382, 0.1674



27.2744, 0.4558, 0.2562



18.2759, 0.3149, 0.3073



14.2882, 0.3404, 0.1649



1.3978, 0.3380, 0.1635



# Inverse Universe

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



31.4946, 0.3341, 0.1782



28.2800, 0.3382, 0.1674



75.6928, 0.2633, 0.4375



18.2759, 0.3149, 0.3073



14.2882, 0.3404, 0.1649



1.3978, 0.3380, 0.1635



# Previews

## White Background



This preview shows how the Yxy color 31.5073, 0.3342, 0.1782 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

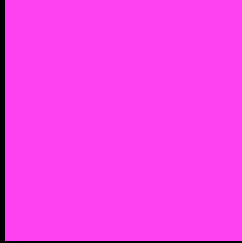
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.5073, 0.3342, 0.1782 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

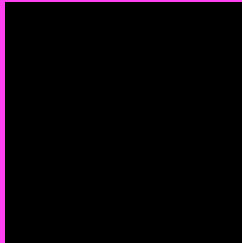
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.5073, 0.3342, 0.1782**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.5073, 0.3342, 0.1782.



This preview shows how white text looks on a background with the Yxy color 31.5073, 0.3342, 0.1782.

# 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

31.5073, 0.3342, 0.1782

### Protanopia

31.7791, 0.2100, 0.1921

### Deuteranopia

31.8398, 0.2290, 0.2239



## Tritanopia

31.3135, 0.4671, 0.3222

# Trichromacy



## Original Color

31.5073, 0.3342, 0.1782



## Protanomaly

27.5694, 0.2402, 0.1727



## Deuteranomaly

27.7734, 0.2572, 0.1906



## Tritanomaly

30.3882, 0.4187, 0.2603

# Monochromacy



## Original Color

31.5073, 0.3342, 0.1782



## Achromatopsia

27.0498, 0.3127, 0.3290



## Achromatomaly

25.3163, 0.3225, 0.2431

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.5073, 0.3342, 0.1782 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, 66, 241)` looks like.

```
.text, #text, p{  
    color:rgb(255, 66, 241)  
}
```

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, 66, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 66, 241) }
```

## Border

The CSS property to change the border of an element to Yxy 31.5073, 0.3342, 0.1782 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, 66, 241) }
```

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

```
.border{ border-color:rgb(255, 66, 241) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 66, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 66, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 66, 241);  
box-shadow:4px 4px 4px 4px rgb(255, 66,  
241) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.5073, 0.3342, 0.1782 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 66, 241) }
```

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

```
.background{ background-color: rgb(255, 66,  
241) }
```

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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