

# Converting Colors

$Y_{xy}(48.3906, 0.3175, 0.2221)$

Have a look what the booklet for  
Yxy(48.3906, 0.3175, 0.2221)  
contains.

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# Color

**Yxy(48.4265, 0.3177, 0.2221)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF90FF
RGB	255, 144, 255
RGB Percent	100%, 56%, 100%
CMY	0.0000, 0.4353, 0.0000
CMYK	0.00, 0.44, 0.00, 0.00
HSL	300°, 100%, 78%
HSV	300°, 44%, 100%
XYZ	69.2710, 48.4265, 100.3416
YIQ	189.8430, 30.5250, 58.0530

# Conversions

## Conversions Part 2

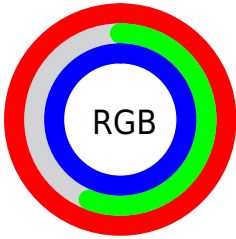
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 144, 255
Decimal	16748799
CIE <sub>Lab</sub>	75.09, 57.32, -37.57
CIE <sub>LCh</sub>	75, 68.533, 326.756
Yxy	48.4265, 0.3177, 0.2221
Android (android.graphics.Color)	4294938879 (0xFFFF90FF)
YUV	189.8430, 32.1224, 57.1427
Hunter-Lab	69.5892, 55.9030, -36.7787

# Details

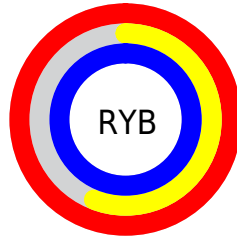
The Yxy color **48.4265, 0.3177, 0.2221** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **79.4619, 0.3063, 0.4655**, and the grayscale version is **51.1925, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.7886, 0.3152, 0.2752**, and **22.9577, 0.3165, 0.1989** is the 20% darker color. If you saturate the color by 10%, you get **41.5530, 0.3187, 0.2012**, and if you desaturate by 10%, it is **57.0392, 0.3166, 0.2455**.

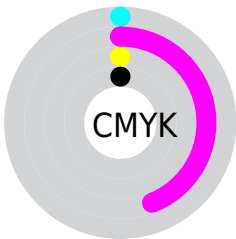
# Distribution



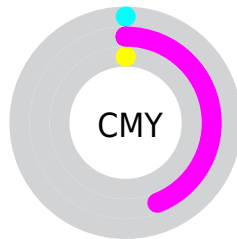
- Red (100%)
- Green (56%)
- Blue (100%)



- Red (100%)
- Yellow (56%)
- Blue (100%)



- Cyan (0%)
- Magenta (44%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (44%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.4265, 0.3177, 0.2221 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 48.4265, 0.3177, 0.2221 by changing the saturation by 10% instead.





 48.4265, 0.3177,  
0.2221

 48.4265, 0.3177,  
0.2221


380.4802, 0.3172,  
0.2698

 34.1648, 0.3174,  
0.2118


 87.8391, 0.3179,  
0.2382

 23.0202, 0.3168,  
0.1993


 113.7587, 0.3178,  
0.2446

 14.6084, 0.3157,  
0.1840

144.3331, 0.3177,  
0.2502

 8.5450, 0.3138,  
0.1649

179.9466, 0.3176,  
0.2551

 4.4456, 0.3102,  
0.1407

220.9837, 0.3175,  
0.2594

 1.9258, 0.3032,  
0.1096

267.8287, 0.3174,

 0.5638, 0.2900,

0.2632

0.0660

320.8661, 0.3173,  
0.2667

0.0000, 0.2627,  
0.0000

0.0000, 0.0000,  
0.0000

48.4265, 0.3177,  
0.2221

48.4265, 0.3177,  
0.2221

41.5530, 0.3187,  
0.2012

57.0392, 0.3166,  
0.2455

36.3072, 0.3195,  
0.1836

67.5065, 0.3155,  
0.2702

32.5530, 0.3202,  
0.1700

79.9249, 0.3143,  
0.2955

30.1353, 0.3206,  
0.1607

94.3865, 0.3131,  
0.3204

■ 28.8653, 0.3208,  
0.1557

100.0000, 0.3127,  
0.3290

■ 28.4800, 0.3209,  
0.1542

# Harmonies

## Analogous

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



48.4265, 0.2332, 0.1955



48.4265, 0.3177, 0.2221



48.4265, 0.4148, 0.2695

# Triad

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



48.4265, 0.3177, 0.2221



48.4265, 0.4502, 0.4599



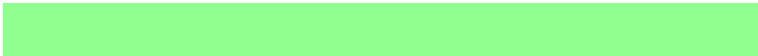
48.4265, 0.1664, 0.2910

# Complementary

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



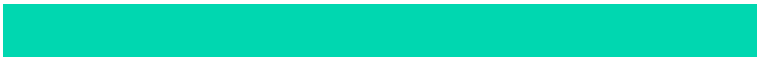
48.4265, 0.3177, 0.2221



79.4619, 0.3063, 0.4655

# 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.



48.4265, 0.2102, 0.3929



48.4265, 0.3177, 0.2221



48.4265, 0.3734, 0.5022

# Square

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



48.4265, 0.3177, 0.2221



48.4265, 0.4943, 0.3954



48.4265, 0.2858, 0.4827



48.4265, 0.1572, 0.2236



# Rectangle

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



48.4265, 0.3177, 0.2221



48.4265, 0.4666, 0.3088



48.4265, 0.2858, 0.4827



48.4265, 0.1770, 0.3223

# Sweetspot

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



48.4240, 0.3177, 0.2221



80.6429, 0.3142, 0.2968



33.0925, 0.2304, 0.1929



16.6321, 0.3145, 0.2913



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.



48.4240, 0.3177, 0.2221



42.4975, 0.3186, 0.2042



45.3506, 0.3692, 0.2719



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

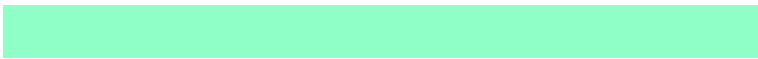
The Inverse Universe completely reimagines the original color for something new.



48.4240, 0.3177, 0.2221



42.4975, 0.3186, 0.2042



81.5951, 0.2794, 0.3956



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 48.4265, 0.3177, 0.2221 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

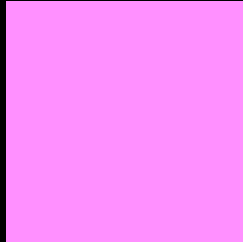
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.4265, 0.3177, 0.2221 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

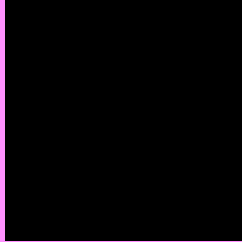
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.4265, 0.3177, 0.2221**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.4265, 0.3177, 0.2221.



This preview shows how white text looks on a background with the Yxy color 48.4265, 0.3177, 0.2221.

# 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

48.4265, 0.3177, 0.2221

### Protanopia

48.7684, 0.2494, 0.2438

### Deuteranopia

48.5580, 0.2569, 0.2504



## Tritanopia

48.3091, 0.3809, 0.3161

# Trichromacy



## Original Color

48.4265, 0.3177, 0.2221



## Protanomaly

47.3317, 0.2707, 0.2330



## Deuteranomaly

47.2497, 0.2762, 0.2363

## Tritanomaly

47.8942, 0.3580, 0.2785

# Monochromacy



## Original Color

48.4265, 0.3177, 0.2221



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

49.0383, 0.3149, 0.2818

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.4265, 0.3177, 0.2221 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, 144, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 144, 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(255, 144, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 144, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.4265, 0.3177, 0.2221 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, 144, 255) }
```

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

```
.border{ border-color:rgb(255, 144, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 144, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 144, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 144, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 144,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.4265, 0.3177, 0.2221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 144, 255) }
```

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

```
.background{ background-color: rgb(255,  
144, 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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