

# Converting Colors

$Y_{xy}(65.1523, 0.3650, 0.2308)$

Have a look what the booklet for  
Yxy(65.1523, 0.3650, 0.2308)  
contains.

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# Color

**Yxy(47.8260, 0.3178, 0.2204)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8EFF
RGB	255, 142, 255
RGB Percent	100%, 56%, 100%
CMY	0.0000, 0.4431, 0.0000
CMYK	0.00, 0.44, 0.00, 0.00
HSL	300°, 100%, 78%
HSV	300°, 44%, 100%
XYZ	68.9614, 47.8260, 100.2089
YIQ	188.6690, 31.0750, 59.0990

# Conversions

## Conversions Part 2

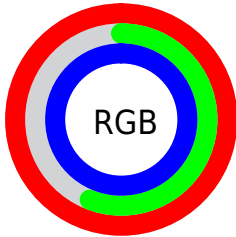
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 142, 255</a>
Decimal	<a href="#">16748287</a>
CIELab	<a href="#">74.72, 58.28, -38.14</a>
CIELCh	<a href="#">75, 69.645, 326.799</a>
Yxy	<a href="#">47.8260, 0.3178, 0.2204</a>
Android (android.graphics.Color)	<a href="#">4294938367 (0xFFFF8EFF)</a>
YUV	<a href="#">188.6690, 32.7012, 58.1723</a>
Hunter-Lab	<a href="#">69.1563, 56.9733, -37.5030</a>

# Details

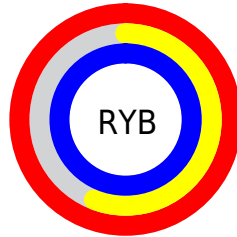
The Yxy color  $47.8260, 0.3178, 0.2204$  is a light color, and the websafe version is hex  $FF99FF$ . A complement of this color would be  $79.2255, 0.3062, 0.4683$ , and the grayscale version is  $50.4884, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $68.8682, 0.3153, 0.2732$ , and  $22.6294, 0.3166, 0.1970$  is the 20% darker color. If you saturate the color by 10%, you get  $41.0872, 0.3188, 0.1997$ , and if you desaturate by 10%, it is  $56.3037, 0.3167, 0.2436$ .

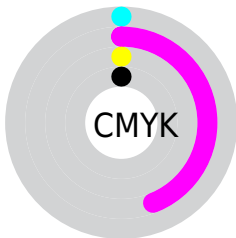
# Distribution



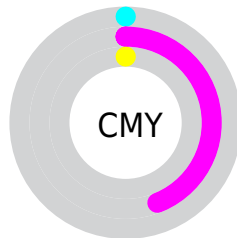
- Red (100%)
- Green (56%)
- Blue (100%)



- 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 47.8260, 0.3178, 0.2204 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 47.8260, 0.3178, 0.2204 by changing the saturation by 10% instead.





 47.8260, 0.3178,  
0.2204


 47.8260, 0.3178,  
0.2204


378.1020, 0.3173,  
0.2688

 33.6891, 0.3175,  
0.2099


 86.9453, 0.3180,  
0.2368

 22.6549, 0.3169,  
0.1972


 112.6965, 0.3179,  
0.2433

 14.3389, 0.3157,  
0.1817


143.0879, 0.3179,  
0.2489

 8.3567, 0.3137,  
0.1624

178.5039, 0.3178,  
0.2539

 4.3241, 0.3099,  
0.1380

219.3289, 0.3176,  
0.2583

 1.8564, 0.3027,  
0.1066

265.9474, 0.3175,

 0.5220, 0.2892,

0.2622

0.0618

318.7436, 0.3174,  
0.2657

0.0000, 0.2598,  
0.0000

0.0000, 0.0000,  
0.0000

47.8260, 0.3178,  
0.2204

47.8260, 0.3178,  
0.2204

41.0872, 0.3188,  
0.1997

56.3037, 0.3167,  
0.2436

35.9621, 0.3196,  
0.1823

66.6237, 0.3156,  
0.2683

32.3173, 0.3202,  
0.1691

78.8873, 0.3144,  
0.2935

29.9959, 0.3206,  
0.1602

93.1873, 0.3132,  
0.3185

■ 28.8053, 0.3208,  
0.1555

100.0000, 0.3127,  
0.3290

■ 28.4772, 0.3209,  
0.1541

# Harmonies

## Analogous

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



47.8260, 0.2318, 0.1934



47.8260, 0.3178, 0.2204



47.8260, 0.4169, 0.2684

# Triad

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



47.8260, 0.3178, 0.2204



47.8260, 0.4521, 0.4618



47.8260, 0.1639, 0.2898

# Complementary

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



47.8260, 0.3178, 0.2204



79.2255, 0.3062, 0.4683

# 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.



47.8260, 0.2081, 0.3940



47.8260, 0.3178, 0.2204



47.8260, 0.3739, 0.5057

# Square

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



47.8260, 0.3178, 0.2204



47.8260, 0.4976, 0.3960



47.8260, 0.2848, 0.4863



47.8260, 0.1548, 0.2215



# Rectangle

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



47.8260, 0.3178, 0.2204



47.8260, 0.4698, 0.3082



47.8260, 0.2848, 0.4863



47.8260, 0.1745, 0.3217

# Sweetspot

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



47.8277, 0.3178, 0.2204



80.6425, 0.3142, 0.2968



32.8858, 0.2291, 0.1924



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.



47.8277, 0.3178, 0.2204



41.8754, 0.3187, 0.2022



44.7973, 0.3687, 0.2691



18.3004, 0.3138, 0.3056



14.8800, 0.3209, 0.1541



1.4488, 0.3209, 0.1541



# Inverse Universe

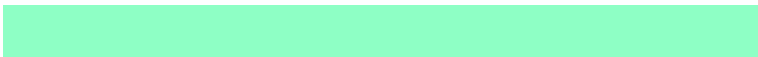
The Inverse Universe completely reimagines the original color for something new.



42.5625, 0.4318, 0.3293



36.0095, 0.4695, 0.3295



81.2856, 0.2798, 0.3994



17.9871, 0.3295, 0.3290



11.1088, 0.6401, 0.3300



1.0816, 0.6401, 0.3300



# Previews

## White Background



This preview shows how the Yxy color 47.8260, 0.3178, 0.2204 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

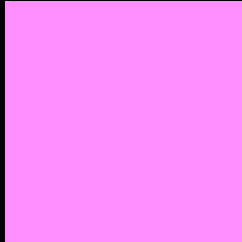
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.8260, 0.3178, 0.2204 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

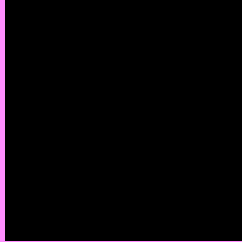
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.8260, 0.3178, 0.2204**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.8260, 0.3178, 0.2204.



This preview shows how white text looks on a background with the Yxy color 47.8260, 0.3178, 0.2204.

# 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

47.8260, 0.3178, 0.2204

### Protanopia

48.2530, 0.2486, 0.2424

### Deuteranopia

48.3402, 0.2556, 0.2501



## Tritanopia

47.9193, 0.3822, 0.3161

# Trichromacy



## Original Color

47.8260, 0.3178, 0.2204



## Protanomaly

46.4595, 0.2698, 0.2305



## Deuteranomaly

46.6082, 0.2746, 0.2348



## Tritanomaly

47.5627, 0.3582, 0.2775

# Monochromacy



## Original Color

47.8260, 0.3178, 0.2204



## Achromatopsia

50.8881, 0.3127, 0.3290



## Achromatomaly

48.4553, 0.3149, 0.2815

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.8260, 0.3178, 0.2204 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, 142, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 142, 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, 142, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 142, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 47.8260, 0.3178, 0.2204 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, 142, 255) }
```

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

```
.border{ border-color:rgb(255, 142, 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, 142, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 142, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 142, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 142,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.8260, 0.3178, 0.2204 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 142, 255) }
```

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

```
.background{ background-color: rgb(255,  
142, 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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