

# Converting Colors

$Y_{xy}(50.3506, 0.2778, 0.2051)$

Have a look what the booklet for  
Yxy(50.3506, 0.2778, 0.2051)  
contains.

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# Color

**Yxy(48.4897, 0.2983, 0.2282)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E89DFF
RGB	232, 157, 255
RGB Percent	91%, 62%, 100%
CMY	0.0902, 0.3843, 0.0001
CMYK	0.09, 0.38, 0.00, 0.00
HSL	286°, 100%, 81%
HSV	286°, 38%, 100%
XYZ	63.3851, 48.4897, 100.6129
YIQ	190.5970, 13.2420, 46.3780

# Conversions

## Conversions Part 2

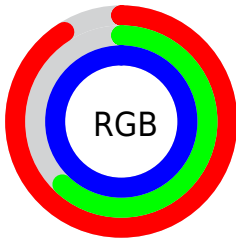
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	232, 157, 255
Decimal	15244799
CIE Lab	75.13, 44.02, -37.68
CIE LCh	75, 57.945, 319.442
Yxy	48.4897, 0.2983, 0.2282
Android (android.graphics.Color)	4293434879 (0xFFE89DFF)
YUV	190.5970, 31.7507, 36.3104
Hunter-Lab	69.6345, 40.6198, -36.9222

# Details

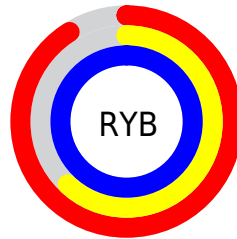
The Yxy color  $48.4897, 0.2983, 0.2282$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $83.6459, 0.3207, 0.4422$ , and the grayscale version is  $51.6637, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $76.0685, 0.3146, 0.2881$ , and  $23.0918, 0.2929, 0.2061$  is the 20% darker color. If you saturate the color by 10%, you get  $39.7614, 0.2930, 0.2022$ , and if you desaturate by 10%, it is  $59.0564, 0.3030, 0.2551$ .

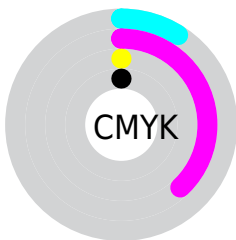
# Distribution



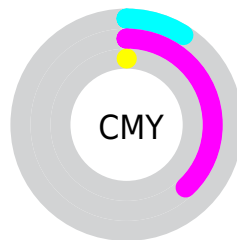
- Red (91%)
- Green (62%)
- Blue (100%)



- Red (91%)
- Yellow (62%)
- Blue (100%)



- Cyan (9%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (9%)
- Magenta (38%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.4897, 0.2983, 0.2282 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 48.4897, 0.2983, 0.2282 by changing the saturation by 10% instead.




 48.4897, 0.2983,  
0.2282

 48.4897, 0.2983,  
0.2282


380.7299, 0.3067,  
0.2738

 34.2149, 0.2960,  
0.2182


 87.9331, 0.3016,  
0.2437

 23.0587, 0.2929,  
0.2060


 113.8704, 0.3027,  
0.2498

 14.6369, 0.2886,  
0.1910


144.4640, 0.3037,  
0.2552

 8.5649, 0.2826,  
0.1722

180.0982, 0.3045,  
0.2598

 4.4585, 0.2736,  
0.1480

221.1576, 0.3052,  
0.2639

 1.9332, 0.2591,  
0.1164

268.0264, 0.3058,

 0.5682, 0.2349,

0.2676

0.0712

321.0890, 0.3063,  
0.2708

0.0000, 0.1835,  
0.0000

0.0000, 0.0000,  
0.0000

48.4897, 0.2983,  
0.2282

48.4897, 0.2983,  
0.2282

39.7614, 0.2930,  
0.2022

59.0564, 0.3030,  
0.2551

32.7520, 0.2872,  
0.1784

71.5588, 0.3070,  
0.2820

27.3379, 0.2810,  
0.1577

86.0946, 0.3104,  
0.3081

23.3754, 0.2746,  
0.1412

99.9990, 0.3127,  
0.3290

■ 20.6951, 0.2682,  
0.1294

■ 19.0596, 0.2620,  
0.1221

■ 18.8465, 0.2610,  
0.1212

# Harmonies

## Analogous

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



48.4897, 0.2304, 0.2099



48.4897, 0.2983, 0.2282



48.4897, 0.3803, 0.2666

# Triad

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



48.4897, 0.2983, 0.2282



48.4897, 0.4454, 0.4326



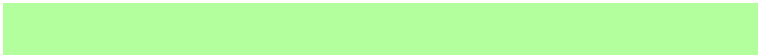
48.4897, 0.1927, 0.3177

# Complementary

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



48.4897, 0.2983, 0.2282



83.6459, 0.3207, 0.4422

# 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.



48.4897, 0.2398, 0.4038



48.4897, 0.2983, 0.2282



48.4897, 0.3856, 0.4718

# Square

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



48.4897, 0.2983, 0.2282



48.4897, 0.4708, 0.3763



48.4897, 0.3104, 0.4665



48.4897, 0.1762, 0.2508



# Rectangle

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



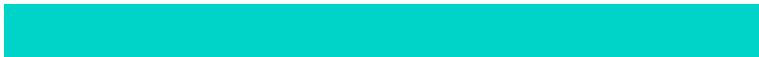
48.4897, 0.2983, 0.2282



48.4897, 0.4288, 0.3002



48.4897, 0.3104, 0.4665



48.4897, 0.2051, 0.3458

# Sweetspot

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



48.4918, 0.2983, 0.2282



80.6709, 0.3092, 0.2989



47.6390, 0.2460, 0.2413



16.8560, 0.3088, 0.2955



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.



48.4918, 0.2983, 0.2282



41.7221, 0.2943, 0.2084



51.1134, 0.3377, 0.2552



18.0731, 0.3100, 0.3053



9.9204, 0.2620, 0.1217



1.0153, 0.2690, 0.1256



# Inverse Universe

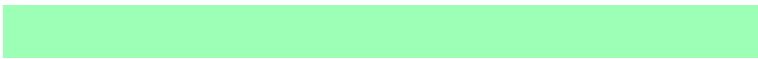
The Inverse Universe completely reimagines the original color for something new.



48.6672, 0.3857, 0.3051



42.0752, 0.4079, 0.3006



82.0357, 0.2949, 0.4167



18.0569, 0.3257, 0.3234



11.2971, 0.5983, 0.3070

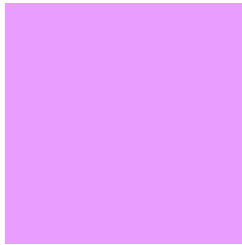


1.1160, 0.5672, 0.2898



# Previews

## White Background



This preview shows how the Yxy color 48.4897, 0.2983, 0.2282 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

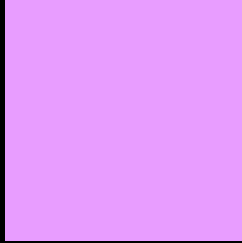
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.4897, 0.2983, 0.2282 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 48.4897, 0.2983, 0.2282**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.4897, 0.2983, 0.2282.



This preview shows how white text looks on a background with the Yxy color 48.4897, 0.2983, 0.2282.

# 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

48.4897, 0.2983, 0.2282

### Protanopia

48.8735, 0.2500, 0.2439

### Deuteranopia

48.9846, 0.2553, 0.2495



## Tritanopia

48.5374, 0.3469, 0.3139

# Trichromacy



## Original Color

48.4897, 0.2983, 0.2282



## Protanomaly

48.1835, 0.2654, 0.2372



## Deuteranomaly

48.3767, 0.2694, 0.2405



## Tritanomaly

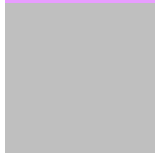
48.4593, 0.3292, 0.2807

# Monochromacy



## Original Color

48.4897, 0.2983, 0.2282



## Achromatopsia

52.0996, 0.3127, 0.3290



## Achromatomaly

50.2171, 0.3080, 0.2879

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.4897, 0.2983, 0.2282 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(232, 157, 255)` looks like.

```
.text, #text, p{  
    color:rgb(232, 157, 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(232, 157, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 157, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.4897, 0.2983, 0.2282 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(232, 157, 255) }
```

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

```
.border{ border-color:rgb(232, 157, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 157, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 157, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 157, 255);  
box-shadow:4px 4px 4px 4px rgb(232, 157,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.4897, 0.2983, 0.2282 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 157, 255) }
```

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

```
.background{ background-color: rgb(232,  
157, 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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