

# Converting Colors

$Y_{xy}(48.7611, 0.2929, 0.2307)$

Have a look what the booklet for  
Yxy(48.7611, 0.2929, 0.2307)  
contains.

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# Color

**Yxy(48.7173, 0.2927, 0.2305)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E1A1FF
RGB	225, 161, 255
RGB Percent	88%, 63%, 100%
CMY	0.1174, 0.3687, 0.0000
CMYK	0.12, 0.37, 0.00, 0.00
HSL	281°, 100%, 82%
HSV	281°, 37%, 100%
XYZ	61.8636, 48.7173, 100.7740
YIQ	190.8520, 7.9700, 42.8020

# Conversions

## Conversions Part 2

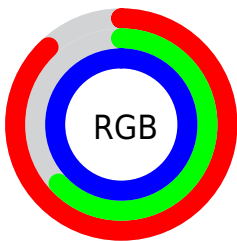
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	225, 161, 255
Decimal	14787071
CIE Lab	75.28, 39.89, -37.54
CIE LCh	75, 54.771, 316.739
Yxy	48.7173, 0.2927, 0.2305
Android (android.graphics.Color)	4292977151 (0xFFE1A1FF)
YUV	190.8520, 31.6250, 29.9478
Hunter-Lab	69.7978, 36.0630, -36.7444

# Details

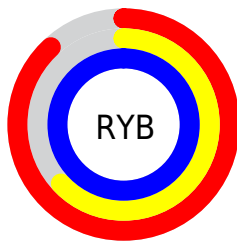
The Yxy color  $48.7173, 0.2927, 0.2305$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $85.1570, 0.3254, 0.4354$ , and the grayscale version is  $51.8207, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $78.1057, 0.3145, 0.2920$ , and  $23.1272, 0.2855, 0.2083$  is the 20% darker color. If you saturate the color by 10%, you get  $39.4229, 0.2853, 0.2031$ , and if you desaturate by 10%, it is  $59.8912, 0.2993, 0.2584$ .

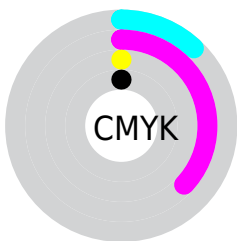
# Distribution



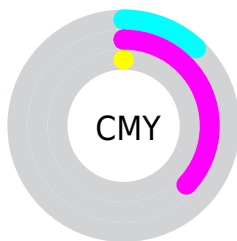
- Red (88%)
- Green (63%)
- Blue (100%)



- Red (88%)
- Yellow (63%)
- Blue (100%)



- Cyan (12%)
- Magenta (37%)
- Yellow (0%)
- Black (0%)




- Cyan (12%)
- Magenta (37%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.7173, 0.2927, 0.2305 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 48.7173, 0.2927, 0.2305 by changing the saturation by 10% instead.





 48.7173, 0.2927,  
0.2305


 48.7173, 0.2927,  
0.2305

381.6283, 0.3037,  
0.2752

 34.3953, 0.2898,  
0.2206


 88.2714, 0.2968,  
0.2458

 23.1974, 0.2860,  
0.2086


 114.2723, 0.2984,  
0.2518

 14.7394, 0.2809,  
0.1938


144.9350, 0.2996,  
0.2570

 8.6367, 0.2738,  
0.1751

180.6438, 0.3007,  
0.2615

 4.5050, 0.2632,  
0.1510

221.7831, 0.3016,  
0.2656

 1.9598, 0.2468,  
0.1193

268.7374, 0.3024,

 0.5840, 0.2199,

0.2691

0.0741

321.8910, 0.3031,  
0.2723

0.0000, 0.1592,  
0.0000

0.0000, 0.0000,  
0.0000

48.7173, 0.2927,  
0.2305

48.7173, 0.2927,  
0.2305

39.4229, 0.2853,  
0.2031

59.8912, 0.2993,  
0.2584

31.8954, 0.2772,  
0.1773

73.0467, 0.3050,  
0.2858

26.0108, 0.2686,  
0.1543

88.2790, 0.3099,  
0.3119

21.6281, 0.2598,  
0.1354

100.0000, 0.3127,  
0.3290

■ 18.5821, 0.2512,  
0.1213

■ 16.6637, 0.2429,  
0.1121

■ 16.1967, 0.2404,  
0.1098

# Harmonies

## Analogous

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



48.7173, 0.2300, 0.2150



48.7173, 0.2927, 0.2305



48.7173, 0.3698, 0.2658

# Triad

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



48.7173, 0.2927, 0.2305



48.7173, 0.4427, 0.4239



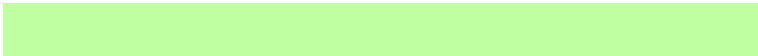
48.7173, 0.2016, 0.3258

# Complementary

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



48.7173, 0.2927, 0.2305



85.1570, 0.3254, 0.4354

# 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.



48.7173, 0.2494, 0.4061



48.7173, 0.2927, 0.2305



48.7173, 0.3886, 0.4622

# Square

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



48.7173, 0.2927, 0.2305



48.7173, 0.4623, 0.3701



48.7173, 0.3178, 0.4607



48.7173, 0.1828, 0.2599



# Rectangle

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



48.7173, 0.2927, 0.2305



48.7173, 0.4169, 0.2974



48.7173, 0.3178, 0.4607



48.7173, 0.2145, 0.3526

# Sweetspot

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



48.7175, 0.2927, 0.2305



81.7361, 0.3080, 0.3013



52.6318, 0.2504, 0.2551



17.0517, 0.3073, 0.2978



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.



48.7175, 0.2927, 0.2305



41.9078, 0.2875, 0.2109



52.9915, 0.3298, 0.2511



17.9934, 0.3087, 0.3052



8.5467, 0.2417, 0.1105



0.8907, 0.2509, 0.1156



# Inverse Universe

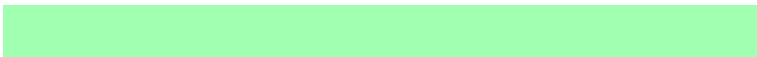
The Inverse Universe completely reimagines the original color for something new.



50.4977, 0.3739, 0.2979



44.0804, 0.3916, 0.2919



82.2543, 0.2995, 0.4222



18.0824, 0.3244, 0.3215



11.4446, 0.5702, 0.2915

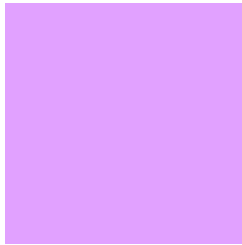


1.1332, 0.5383, 0.2739



# Previews

## White Background



This preview shows how the Yxy color 48.7173, 0.2927, 0.2305 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

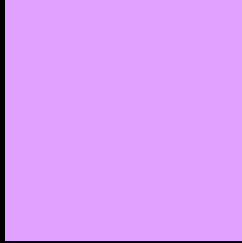
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.7173, 0.2927, 0.2305 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

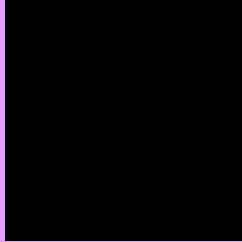
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.7173, 0.2927, 0.2305**

## Background



This preview shows how black text looks on a background with the Yxy color 48.7173, 0.2927, 0.2305.



This preview shows how white text looks on a background with the Yxy color 48.7173, 0.2927, 0.2305.

# 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

48.7173, 0.2927, 0.2305

### Protanopia

48.9795, 0.2506, 0.2441

### Deuteranopia

49.0475, 0.2547, 0.2485



## Tritanopia

48.7379, 0.3374, 0.3136

# Trichromacy



## Original Color

48.7173, 0.2927, 0.2305



## Protanomaly

48.3190, 0.2641, 0.2380



## Deuteranomaly

48.3796, 0.2674, 0.2411



## Tritanomaly

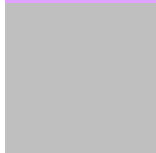
48.5630, 0.3211, 0.2811

# Monochromacy



## Original Color

48.7173, 0.2927, 0.2305



## Achromatopsia

52.0996, 0.3127, 0.3290



## Achromatomaly

50.1941, 0.3055, 0.2888

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.7173, 0.2927, 0.2305 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(225, 161, 255)` looks like.

```
.text, #text, p{  
    color:rgb(225, 161, 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(225, 161, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 161, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.7173, 0.2927, 0.2305 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(225, 161, 255) }
```

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

```
.border{ border-color:rgb(225, 161, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(225, 161, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 161, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 161, 255);  
box-shadow:4px 4px 4px 4px rgb(225, 161,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.7173, 0.2927, 0.2305 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 161, 255) }
```

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

```
.background{ background-color: rgb(225,  
161, 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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