

# Converting Colors

$Y_{xy}(49.3160, 0.3023, 0.2384)$

Have a look what the booklet for  
Yxy(49.3160, 0.3023, 0.2384)  
contains.

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**Color**

**Yxy(49.0900, 0.3019, 0.2378)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6A1F8
RGB	230, 161, 248
RGB Percent	90%, 63%, 97%
CMY	0.0981, 0.3686, 0.0273
CMYK	0.07, 0.35, 0.00, 0.03
HSL	288°, 86%, 80%
HSV	288°, 35%, 97%
XYZ	62.3224, 49.0900, 95.0216
YIQ	191.5490, 13.1970, 41.6850

# Conversions

## Conversions Part 2

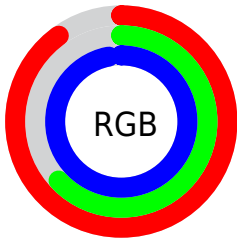
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	230, 161, 248
Decimal	15114744
CIE Lab	75.51, 39.95, -33.35
CIE LCh	76, 52.046, 320.145
Yxy	49.0900, 0.3019, 0.2378
Android (android.graphics.Color)	4293304824 (0xFFE6A1F8)
YUV	191.5490, 27.8303, 33.7215
Hunter-Lab	70.0643, 36.1640, -31.3645

# Details

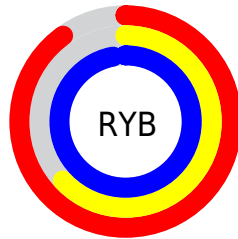
The Yxy color **49.0900, 0.3019, 0.2378** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **79.3158, 0.3188, 0.4314**, and the grayscale version is **52.2665, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.1057, 0.3145, 0.2920**, and **23.3709, 0.2977, 0.2174** is the 20% darker color. If you saturate the color by 10%, you get **40.4278, 0.2975, 0.2118**, and if you desaturate by 10%, it is **59.5008, 0.3057, 0.2645**.

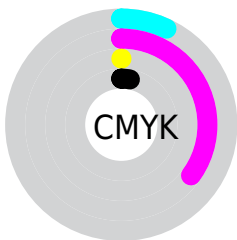
# Distribution



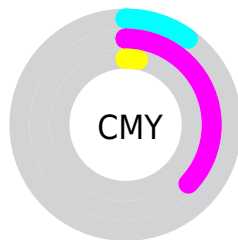
- Red (90%)
- Green (63%)
- Blue (97%)



- Red (90%)
- Yellow (63%)
- Blue (97%)



- Cyan (7%)
- Magenta (35%)
- Yellow (0%)
- Black (3%)




- Cyan (10%)
- Magenta (37%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.0900, 0.3019, 0.2378 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 49.0900, 0.3019, 0.2378 by changing the saturation by 10% instead.





 49.0900, 0.3019,  
0.2378


 49.0900, 0.3019,  
0.2378


383.0965, 0.3084,  
0.2794

 34.6909, 0.3001,  
0.2285


 88.8251, 0.3044,  
0.2521

 23.4249, 0.2976,  
0.2172


 114.9299, 0.3053,  
0.2577

 14.9075, 0.2943,  
0.2032


145.7053, 0.3061,  
0.2625

 8.7545, 0.2894,  
0.1853

181.5359, 0.3067,  
0.2667

 4.5814, 0.2820,  
0.1620

222.8058, 0.3072,  
0.2705

 2.0038, 0.2697,  
0.1309

269.8997, 0.3076,

 0.6097, 0.2486,

0.2738

0.0854

323.2018, 0.3080,  
0.2767

0.0000, 0.1970,  
0.0000

0.0000, 0.0000,  
0.0000

49.0900, 0.3019,  
0.2378

49.0900, 0.3019,  
0.2378

40.4278, 0.2975,  
0.2118

59.5008, 0.3057,  
0.2645

33.4055, 0.2926,  
0.1876

71.7477, 0.3089,  
0.2910

27.9120, 0.2874,  
0.1663

85.9203, 0.3116,  
0.3165

23.8195, 0.2818,  
0.1489

98.7262, 0.3140,  
0.3357

■ 20.9794, 0.2762,  
0.1360

■ 99.5592, 0.3167,  
0.3357

■ 19.2085, 0.2707,  
0.1278

■ 18.5980, 0.2680,  
0.1250

# Harmonies

## Analogous

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



49.0900, 0.2396, 0.2206



49.0900, 0.3019, 0.2378



49.0900, 0.3752, 0.2736

# Triad

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



49.0900, 0.3019, 0.2378



49.0900, 0.4323, 0.4253



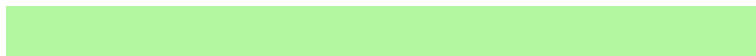
49.0900, 0.2034, 0.3182

# Complementary

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



49.0900, 0.3019, 0.2378



79.3158, 0.3188, 0.4314

# 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.



49.0900, 0.2464, 0.3936



49.0900, 0.3019, 0.2378



49.0900, 0.3784, 0.4577

# Square

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



49.0900, 0.3019, 0.2378



49.0900, 0.4548, 0.3751



49.0900, 0.3102, 0.4497



49.0900, 0.1883, 0.2582



# Rectangle

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



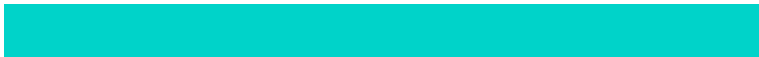
49.0900, 0.3019, 0.2378



49.0900, 0.4179, 0.3048



49.0900, 0.3102, 0.4497



49.0900, 0.2147, 0.3429

# Sweetspot

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



49.0921, 0.3019, 0.2378



82.3047, 0.3101, 0.3015



46.9428, 0.2520, 0.2467



17.1878, 0.3097, 0.2980



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.



49.0921, 0.3019, 0.2378



45.6584, 0.2989, 0.2195



50.8012, 0.3375, 0.2644



17.3323, 0.3105, 0.3054



10.1059, 0.2689, 0.1255



0.9800, 0.2754, 0.1291



# Inverse Universe

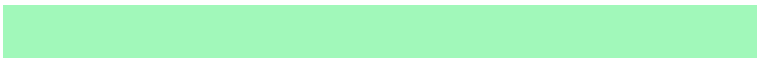
The Inverse Universe completely reimagines the original color for something new.



48.7098, 0.3791, 0.3098



45.3145, 0.3989, 0.3060



78.2619, 0.2948, 0.4040



17.2841, 0.3261, 0.3241



10.9277, 0.6058, 0.3111



1.0267, 0.5741, 0.2936



# Previews

## White Background



This preview shows how the Yxy color 49.0900, 0.3019, 0.2378 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

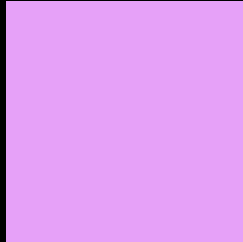
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.0900, 0.3019, 0.2378 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

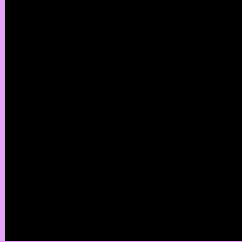
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.0900, 0.3019, 0.2378**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.0900, 0.3019, 0.2378.



This preview shows how white text looks on a background with the Yxy color 49.0900, 0.3019, 0.2378.

# 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

49.0900, 0.3019, 0.2378

### Protanopia

49.5003, 0.2514, 0.2454

### Deuteranopia

49.2829, 0.2627, 0.2564



## Tritanopia

48.8471, 0.3440, 0.3127

# Trichromacy



## Original Color

49.0900, 0.3019, 0.2378



## Protanomaly

48.8978, 0.2682, 0.2425



## Deuteranomaly

48.7219, 0.2762, 0.2489



## Tritanomaly

48.8267, 0.3281, 0.2838

# Monochromacy



## Original Color

49.0900, 0.3019, 0.2378



## Achromatopsia

52.7115, 0.3127, 0.3290



## Achromatomaly

50.9230, 0.3094, 0.2926

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.0900, 0.3019, 0.2378 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(230, 161, 248)` looks like.

```
.text, #text, p{  
    color:rgb(230, 161, 248)  
}
```

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(230, 161, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 161, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 49.0900, 0.3019, 0.2378 is called "border". The border property can be set on classes, ids or directly on the HTML element.

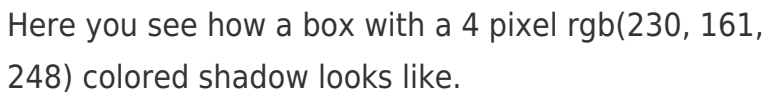
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(230, 161, 248) }
```

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

```
.border{ border-color:rgb(230, 161, 248) }
```

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



Here you see how a box with a 4 pixel `rgb(230, 161, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(230, 161, 248); -webkit-box-shadow:4px 4px 4px 4px rgb(230, 161, 248); box-shadow:4px 4px 4px 4px rgb(230, 161, 248) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.0900, 0.3019, 0.2378 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 161, 248) }
```

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

```
.background{ background-color: rgb(230,  
161, 248) }
```

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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