

# Converting Colors

$Y_{xy}(66.0072, 0.2324, 0.1619)$

Have a look what the booklet for  
Yxy(66.0072, 0.2324, 0.1619)  
contains.

<b>Yxy(54.9845, 0.2999, 0.2457)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(54.9845, 0.2999, 0.2457)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EAAEFF
RGB	234, 174, 255
RGB Percent	92%, 68%, 100%
CMY	0.0824, 0.3176, 0.0000
CMYK	0.08, 0.32, 0.00, 0.00
HSL	284°, 100%, 84%
HSV	284°, 32%, 100%
XYZ	67.1138, 54.9845, 101.6889
YIQ	201.1740, 9.7590, 37.9110

# Conversions

## Conversions Part 2

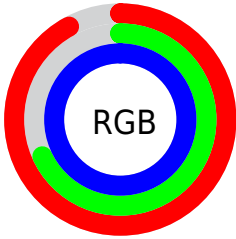
Format	Color
<a href="#">RYB</a>	<a href="#">234, 174, 255</a>
Decimal	<a href="#">15380223</a>
CIELab	<a href="#">79.03, 35.62, -31.65</a>
CIElCh	<a href="#">79, 47.645, 318.380</a>
Yxy	<a href="#">54.9845, 0.2999, 0.2457</a>
Android (android.graphics.Color)	<a href="#">4293570303</a> ( <a href="#">0xFFEAAEFF</a> )
YUV	<a href="#">201.1740, 26.5362, 28.7884</a>
Hunter-Lab	<a href="#">74.1515, 31.7933, -29.4022</a>

# Details

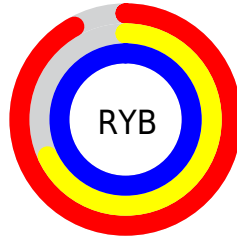
The Yxy color **54.9845, 0.2999, 0.2457** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **86.1826, 0.3211, 0.4198**, and the grayscale version is **58.3505, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.0736, 0.3138, 0.3048**, and **27.0991, 0.2953, 0.2276** is the 20% darker color. If you saturate the color by 10%, you get **44.9512, 0.2944, 0.2187**, and if you desaturate by 10%, it is **66.9335, 0.3047, 0.2729**.

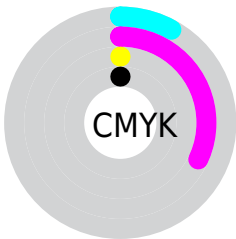
# Distribution



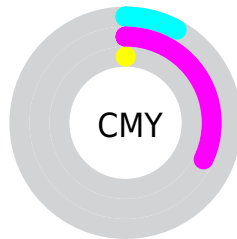
- Red (92%)
- Green (68%)
- Blue (100%)



- Red (92%)
- Yellow (68%)
- Blue (100%)



- Cyan (8%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)




- Cyan (8%)
- Magenta (32%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.9845, 0.2999, 0.2457 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 54.9845, 0.2999, 0.2457 by changing the saturation by 10% instead.




 54.9845, 0.2999,  
0.2457

 54.9845, 0.2999,  
0.2457


405.8532, 0.3070,  
0.2833

 39.3893, 0.2980,  
0.2374

 97.5182, 0.3026,  
0.2585

 27.0627, 0.2956,  
0.2273


125.2256, 0.3036,  
0.2636

 17.6203, 0.2922,  
0.2148


157.7391, 0.3044,  
0.2680

 10.6778, 0.2876,  
0.1989

195.4432, 0.3051,  
0.2718

 5.8506, 0.2807,  
0.1782

238.7223, 0.3057,  
0.2752

 2.7544, 0.2699,  
0.1504

287.9607, 0.3062,

 1.0049, 0.2511,

0.2782

0.1123

343.5429, 0.3066,  
0.2809

0.0000, 0.2282,  
0.0000

0.0000, 0.0000,  
0.0000

54.9845, 0.2999,  
0.2457

54.9845, 0.2999,  
0.2457

44.9512, 0.2944,  
0.2187

66.9335, 0.3047,  
0.2729

36.7215, 0.2882,  
0.1929

80.8909, 0.3088,  
0.2995

30.1800, 0.2815,  
0.1694

96.9499, 0.3122,  
0.3247

25.1956, 0.2745,  
0.1496

100.0000, 0.3127,  
0.3290

■ 21.6171, 0.2674,  
0.1341

■ 19.2628, 0.2604,  
0.1234

■ 18.0163, 0.2548,  
0.1177

# Harmonies

## Analogous

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



54.9845, 0.2451, 0.2314



54.9845, 0.2999, 0.2457



54.9845, 0.3644, 0.2774

# Triad

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



54.9845, 0.2999, 0.2457



54.9845, 0.4215, 0.4137



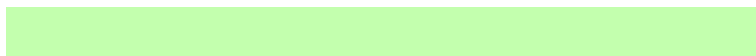
54.9845, 0.2169, 0.3241

# Complementary

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



54.9845, 0.2999, 0.2457



86.1826, 0.3211, 0.4198

# 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.



54.9845, 0.2573, 0.3891



54.9845, 0.2999, 0.2457



54.9845, 0.3755, 0.4419

# Square

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



54.9845, 0.2999, 0.2457



54.9845, 0.4384, 0.3690



54.9845, 0.3152, 0.4357



54.9845, 0.2012, 0.2695



# Rectangle

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



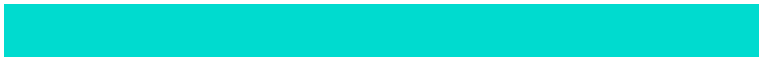
54.9845, 0.2999, 0.2457



54.9845, 0.4025, 0.3054



54.9845, 0.3152, 0.4357



54.9845, 0.2278, 0.3458

# Sweetspot

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



54.9864, 0.2999, 0.2457



83.5621, 0.3094, 0.3040



55.5238, 0.2588, 0.2606



17.4280, 0.3089, 0.3004



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.



54.9864, 0.2999, 0.2457



48.5065, 0.2965, 0.2288



57.5990, 0.3313, 0.2668



18.0492, 0.3096, 0.3053



9.4896, 0.2559, 0.1183



0.9766, 0.2636, 0.1226



# Inverse Universe

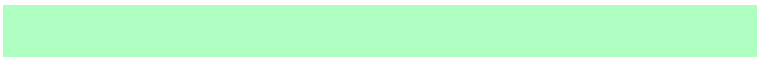
The Inverse Universe completely reimagines the original color for something new.



55.4784, 0.3668, 0.3072



49.1770, 0.3821, 0.3028



84.3663, 0.2984, 0.4007



18.0644, 0.3253, 0.3229



11.3359, 0.5905, 0.3027

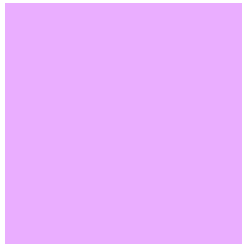


1.1207, 0.5589, 0.2852



# Previews

## White Background



This preview shows how the Yxy color 54.9845, 0.2999, 0.2457 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

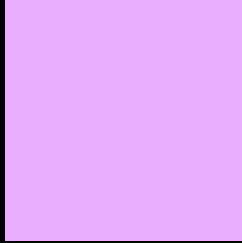
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 54.9845, 0.2999, 0.2457 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

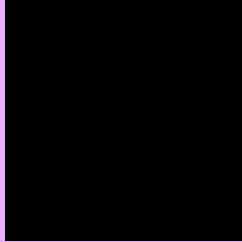
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 54.9845, 0.2999, 0.2457**

## **Background**



This preview shows how black text looks on a background with the Yxy color 54.9845, 0.2999, 0.2457.

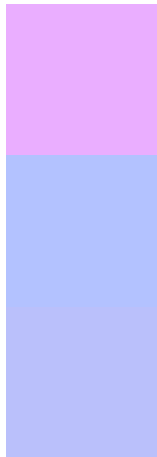


This preview shows how white text looks on a background with the Yxy color 54.9845, 0.2999, 0.2457.

# 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

54.9845, 0.2999, 0.2457

### Protanopia

55.3873, 0.2618, 0.2592

### Deuteranopia

55.1034, 0.2684, 0.2617



## Tritanopia

54.9902, 0.3362, 0.3132

# Trichromacy



## Original Color

54.9845, 0.2999, 0.2457



## Protanomaly

54.9028, 0.2744, 0.2538



## Deuteranomaly

54.4227, 0.2790, 0.2550



## Tritanomaly

54.8202, 0.3230, 0.2873

# Monochromacy



## Original Color

54.9845, 0.2999, 0.2457



## Achromatopsia

58.4078, 0.3127, 0.3290



## Achromatomaly

56.6282, 0.3080, 0.2950

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.9845, 0.2999, 0.2457 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(234, 174, 255)` looks like.

```
.text, #text, p{  
    color:rgb(234, 174, 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(234, 174, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 174, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 54.9845, 0.2999, 0.2457 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(234, 174, 255) }
```

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

```
.border{ border-color:rgb(234, 174, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 174, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 174, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 174, 255);  
box-shadow:4px 4px 4px 4px rgb(234, 174,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.9845, 0.2999, 0.2457 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 174, 255) }
```

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

```
.background{ background-color: rgb(234,  
174, 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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