

# Converting Colors

$Y_{xy}(53.8003, 0.2907, 0.2455)$

Have a look what the booklet for  
Yxy(53.8003, 0.2907, 0.2455)  
contains.

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# Color

**Yxy(53.8003, 0.2907, 0.2455)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEB0FF
RGB	222, 176, 255
RGB Percent	87%, 69%, 100%
CMY	0.1293, 0.3098, 0.0000
CMYK	0.13, 0.31, 0.00, 0.00
HSL	275°, 100%, 85%
HSV	275°, 31%, 100%
XYZ	63.7057, 53.8003, 101.6398
YIQ	198.7600, 2.0570, 34.3210

# Conversions

## Conversions Part 2

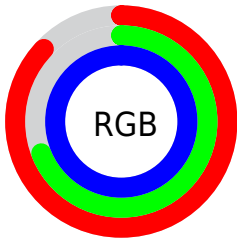
Format	Color
R <sub>Y</sub> B	222, 176, 255
Decimal	14594303
CIE Lab	78.35, 30.91, -32.80
CIE LCh	78, 45.070, 313.304
Yxy	53.8003, 0.2907, 0.2455
Android (android.graphics.Color)	4292784383 (0xFFDEB0FF)
YUV	198.7600, 27.7263, 20.3815
Hunter-Lab	73.3487, 26.6728, -30.8145

# Details

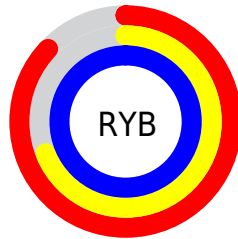
The Yxy color **53.8003, 0.2907, 0.2455** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **88.2051, 0.3289, 0.4151**, and the grayscale version is **56.7877, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.1932, 0.3138, 0.3068**, and **26.3501, 0.2842, 0.2269** is the 20% darker color. If you saturate the color by 10%, you get **43.0963, 0.2813, 0.2165**, and if you desaturate by 10%, it is **66.4920, 0.2990, 0.2740**.

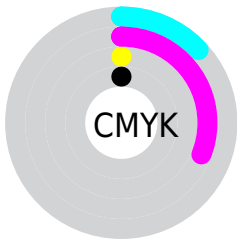
# Distribution



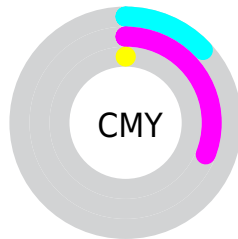
- Red (87%)
- Green (69%)
- Blue (100%)



- Red (87%)
- Yellow (69%)
- Blue (100%)



- Cyan (13%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)




- Cyan (13%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 53.8003, 0.2907, 0.2455 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 53.8003, 0.2907, 0.2455 by changing the saturation by 10% instead.





 53.8003, 0.2907,  
0.2455

 53.8003, 0.2907,  
0.2455

401.3480, 0.3021,  
0.2835

 38.4420, 0.2878,  
0.2371


 95.7810, 0.2949,  
0.2585

 26.3259, 0.2841,  
0.2268


123.1722, 0.2965,  
0.2636

 17.0676, 0.2793,  
0.2140


155.3431, 0.2978,  
0.2680

 10.2827, 0.2726,  
0.1977

192.6782, 0.2989,  
0.2719

 5.5868, 0.2629,  
0.1764

235.5618, 0.2999,  
0.2753

 2.5955, 0.2482,  
0.1478

284.3784, 0.3007,

 0.9244, 0.2237,

0.2783

0.1085

339.5124, 0.3015,  
0.2810

0.0000, 0.1830,  
0.0000

0.0000, 0.0000,  
0.0000

53.8003, 0.2907,  
0.2455

53.8003, 0.2907,  
0.2455

43.0963, 0.2813,  
0.2165

66.4920, 0.2990,  
0.2740

34.2673, 0.2710,  
0.1880

81.2652, 0.3061,  
0.3012

27.1973, 0.2600,  
0.1613

98.2138, 0.3122,  
0.3266

21.7548, 0.2486,  
0.1380

100.0000, 0.3127,  
0.3290

■ 17.7888, 0.2373,  
0.1191

■ 15.1188, 0.2265,  
0.1054

■ 13.5694, 0.2176,  
0.0972

# Harmonies

## Analogous

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



53.8003, 0.2410, 0.2351



53.8003, 0.2907, 0.2455



53.8003, 0.3518, 0.2735

# Triad

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



53.8003, 0.2907, 0.2455



53.8003, 0.4218, 0.4039



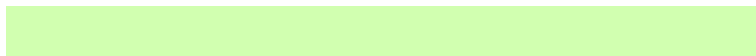
53.8003, 0.2261, 0.3349

# Complementary

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



53.8003, 0.2907, 0.2455



88.2051, 0.3289, 0.4151

# 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.



53.8003, 0.2685, 0.3956



53.8003, 0.2907, 0.2455



53.8003, 0.3818, 0.4341

# Square

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



53.8003, 0.2907, 0.2455



53.8003, 0.4318, 0.3600



53.8003, 0.3254, 0.4341



53.8003, 0.2067, 0.2798



# Rectangle

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



53.8003, 0.2907, 0.2455



53.8003, 0.3899, 0.2994



53.8003, 0.3254, 0.4341



53.8003, 0.2379, 0.3558

# Sweetspot

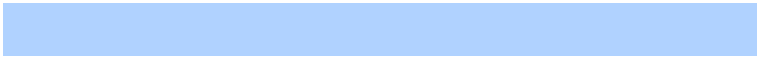
The Sweet Spot groups the original color and five complimentary colors.



53.8021, 0.2907, 0.2455



84.4498, 0.3074, 0.3064



62.6563, 0.2621, 0.2781



17.5737, 0.3065, 0.3026



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.



53.8021, 0.2907, 0.2455



47.1289, 0.2852, 0.2280



59.1938, 0.3204, 0.2563



17.9005, 0.3071, 0.3051



7.1800, 0.2192, 0.0981



0.7633, 0.2303, 0.1043



# Inverse Universe

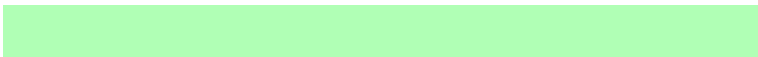
The Inverse Universe completely reimagines the original color for something new.



56.9103, 0.3540, 0.2951



50.7990, 0.3652, 0.2883



84.0964, 0.3056, 0.4144



18.1128, 0.3228, 0.3191



11.6854, 0.5313, 0.2700

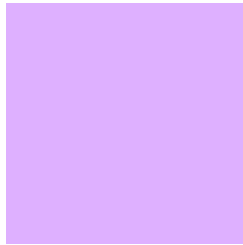


1.1590, 0.5018, 0.2538



# Previews

## White Background



This preview shows how the Yxy color 53.8003, 0.2907, 0.2455 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

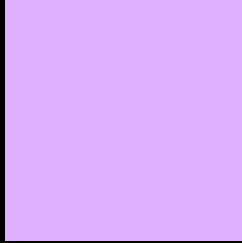
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 53.8003, 0.2907, 0.2455 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

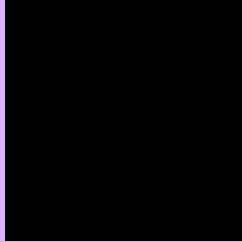
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 53.8003, 0.2907, 0.2455**

## **Background**



This preview shows how black text looks on a background with the Yxy color 53.8003, 0.2907, 0.2455.



This preview shows how white text looks on a background with the Yxy color 53.8003, 0.2907, 0.2455.

# 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

53.8003, 0.2907, 0.2455

### Protanopia

54.1494, 0.2596, 0.2565

### Deuteranopia

54.2350, 0.2651, 0.2590



## Tritanopia

53.9038, 0.3234, 0.3127

# Trichromacy



## Original Color

53.8003, 0.2907, 0.2455



## Protanomaly

53.6753, 0.2702, 0.2517



## Deuteranomaly

54.0800, 0.2742, 0.2543



## Tritanomaly

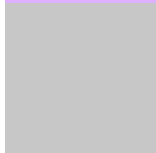
53.6864, 0.3106, 0.2860

# Monochromacy



## Original Color

53.8003, 0.2907, 0.2455



## Achromatopsia

57.1125, 0.3127, 0.3290



## Achromatomaly

55.6415, 0.3047, 0.2967

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 53.8003, 0.2907, 0.2455 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(222, 176, 255)` looks like.

```
.text, #text, p{  
    color:rgb(222, 176, 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(222, 176, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 176, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 53.8003, 0.2907, 0.2455 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(222, 176, 255) }
```

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

```
.border{ border-color:rgb(222, 176, 255) }
```

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

Here you see how a box with a 4 pixel rgb(222, 176, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 176, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 176, 255);  
box-shadow:4px 4px 4px 4px rgb(222, 176,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 53.8003, 0.2907, 0.2455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 176, 255) }
```

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

```
.background{ background-color: rgb(222,  
176, 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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