

# Converting Colors

$Y_{xy}(52.2581, 0.3012, 0.2380)$

Have a look what the booklet for  
Yxy(52.2581, 0.3012, 0.2380)  
contains.

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# Color

**Yxy(52.3253, 0.3015, 0.2380)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ECA6FF
RGB	236, 166, 255
RGB Percent	93%, 65%, 100%
CMY	0.0744, 0.3490, 0.0000
CMYK	0.07, 0.35, 0.00, 0.00
HSL	287°, 100%, 83%
HSV	287°, 35%, 100%
XYZ	66.2860, 52.3253, 101.2429
YIQ	197.0760, 13.1510, 42.5190

# Conversions

## Conversions Part 2

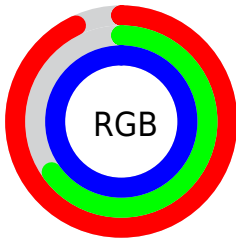
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	236, 166, 255
Decimal	15509247
CIE <sub>Lab</sub>	77.47, 40.49, -34.04
CIE <sub>LCh</sub>	77, 52.903, 319.945
Yxy	52.3253, 0.3015, 0.2380
Android (android.graphics.Color)	4293699327 (0xFFECA6FF)
YUV	197.0760, 28.5565, 34.1363
Hunter-Lab	72.3362, 36.9819, -32.3478

# Details

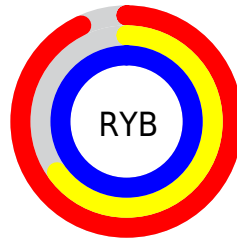
The Yxy color  $52.3253, 0.3015, 0.2380$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $84.5843, 0.3191, 0.4308$ , and the grayscale version is  $55.7010, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $80.7226, 0.3142, 0.2970$ , and  $25.4712, 0.2973, 0.2183$  is the 20% darker color. If you saturate the color by 10%, you get  $43.0390, 0.2970, 0.2119$ , and if you desaturate by 10%, it is  $63.4777, 0.3055, 0.2648$ .

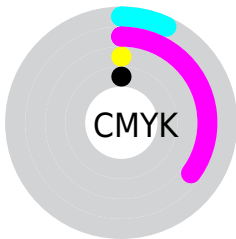
# Distribution



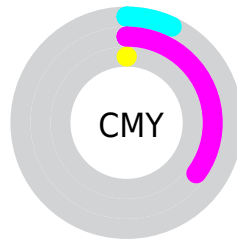
- Red (93%)
- Green (65%)
- Blue (100%)



- Red (93%)
- Yellow (65%)
- Blue (100%)



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




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.3253, 0.3015, 0.2380 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 52.3253, 0.3015, 0.2380 by changing the saturation by 10% instead.





 52.3253, 0.3015,  
0.2380

 52.3253, 0.3015,  
0.2380

395.6912, 0.3081,  
0.2790

 37.2644, 0.2997,  
0.2290


 93.6108, 0.3040,  
0.2520

 25.4123, 0.2973,  
0.2180


 120.6042, 0.3050,  
0.2575

 16.3845, 0.2940,  
0.2044


152.3440, 0.3057,  
0.2623

 9.7966, 0.2893,  
0.1873

189.2144, 0.3064,  
0.2665

 5.2643, 0.2822,  
0.1651

231.6000, 0.3069,  
0.2702

 2.4032, 0.2708,  
0.1356

279.8850, 0.3073,

 0.8275, 0.2508,

0.2735

0.0960

334.4539, 0.3077,  
0.2764

0.0000, 0.2203,  
0.0000

0.0000, 0.0000,  
0.0000

52.3253, 0.3015,  
0.2380

52.3253, 0.3015,  
0.2380

43.0390, 0.2970,  
0.2119

63.4777, 0.3055,  
0.2648

35.5095, 0.2919,  
0.1876

76.5967, 0.3088,  
0.2914

29.6157, 0.2865,  
0.1661

91.7754, 0.3116,  
0.3170

25.2212, 0.2807,  
0.1485

100.0000, 0.3127,  
0.3290

■ 22.1671, 0.2749,  
0.1354

■ 20.2579, 0.2692,  
0.1271

■ 19.5836, 0.2664,  
0.1241

# Harmonies

## Analogous

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



52.3253, 0.2396, 0.2211



52.3253, 0.3015, 0.2380



52.3253, 0.3744, 0.2735

# Triad

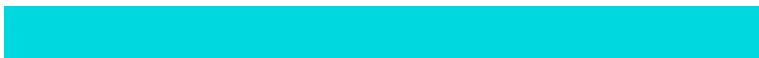
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



52.3253, 0.3015, 0.2380



52.3253, 0.4320, 0.4246



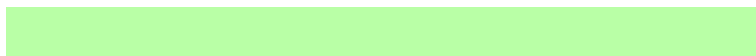
52.3253, 0.2041, 0.3188

# Complementary

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



52.3253, 0.3015, 0.2380



84.5843, 0.3191, 0.4308

# 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.



52.3253, 0.2471, 0.3938



52.3253, 0.3015, 0.2380



52.3253, 0.3786, 0.4570

# Square

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



52.3253, 0.3015, 0.2380



52.3253, 0.4542, 0.3746



52.3253, 0.3107, 0.4492



52.3253, 0.1888, 0.2589



# Rectangle

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



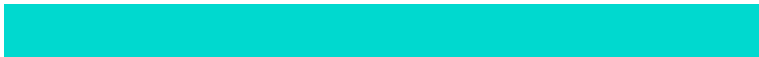
52.3253, 0.3015, 0.2380



52.3253, 0.4170, 0.3046



52.3253, 0.3107, 0.4492



52.3253, 0.2154, 0.3434

# Sweetspot

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



52.3253, 0.3015, 0.2380



83.7787, 0.3102, 0.3041



50.1403, 0.2522, 0.2471



17.4806, 0.3098, 0.3005



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.



52.3253, 0.3015, 0.2380



45.5505, 0.2984, 0.2194



54.2306, 0.3374, 0.2647



18.0934, 0.3104, 0.3053



10.3002, 0.2673, 0.1246



1.0493, 0.2737, 0.1281



# Inverse Universe

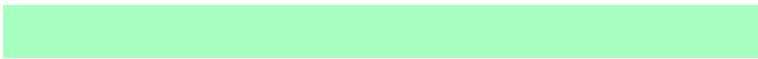
The Inverse Universe completely reimagines the original color for something new.



52.0316, 0.3782, 0.3093



45.3389, 0.3982, 0.3053



83.3971, 0.2948, 0.4036



18.0505, 0.3261, 0.3240



11.2675, 0.6044, 0.3103



1.1122, 0.5741, 0.2936



# Previews

## White Background



This preview shows how the Yxy color 52.3253, 0.3015, 0.2380 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

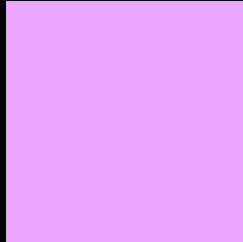
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.3253, 0.3015, 0.2380 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

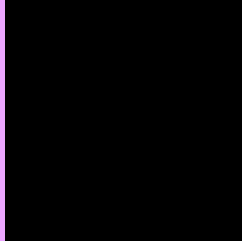
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 52.3253, 0.3015, 0.2380**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.3253, 0.3015, 0.2380.



This preview shows how white text looks on a background with the Yxy color 52.3253, 0.3015, 0.2380.

# 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

52.3253, 0.3015, 0.2380

### Protanopia

52.8176, 0.2568, 0.2536

### Deuteranopia

52.3965, 0.2626, 0.2560



## Tritanopia

52.4213, 0.3431, 0.3132

# Trichromacy



## Original Color

52.3253, 0.3015, 0.2380



## Protanomaly

51.8698, 0.2711, 0.2463



## Deuteranomaly

51.8129, 0.2757, 0.2487



## Tritanomaly

52.0530, 0.3269, 0.2828

# Monochromacy



## Original Color

52.3253, 0.3015, 0.2380



## Achromatopsia

55.8340, 0.3127, 0.3290



## Achromatomaly

54.0287, 0.3088, 0.2923

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.3253, 0.3015, 0.2380 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(236, 166, 255)` looks like.

```
.text, #text, p{  
    color:rgb(236, 166, 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(236, 166, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 166, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 52.3253, 0.3015, 0.2380 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(236, 166, 255) }
```

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

```
.border{ border-color:rgb(236, 166, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 166, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 166, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 166, 255);  
box-shadow:4px 4px 4px 4px rgb(236, 166,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.3253, 0.3015, 0.2380 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 166, 255) }
```

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

```
.background{ background-color: rgb(236,  
166, 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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