

# Converting Colors

$Y_{xy}(45.2083, 0.2926, 0.2200)$

Have a look what the booklet for  
Yxy(45.2083, 0.2926, 0.2200)  
contains.

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# Color

**Yxy(45.0402, 0.2925, 0.2195)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E196FF
RGB	225, 150, 255
RGB Percent	88%, 59%, 100%
CMY	0.1174, 0.4118, 0.0000
CMYK	0.12, 0.41, 0.00, 0.00
HSL	283°, 100%, 79%
HSV	283°, 41%, 100%
XYZ	60.0194, 45.0402, 100.1349
YIQ	184.3950, 10.9950, 48.5550

# Conversions

## Conversions Part 2

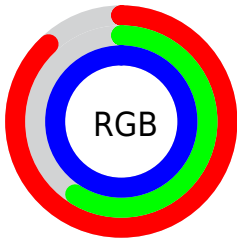
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	225, 150, 255
Decimal	14784255
CIE Lab	72.92, 45.70, -41.19
CIE LCh	73, 61.517, 317.971
Yxy	45.0402, 0.2925, 0.2195
Android (android.graphics.Color)	4292974335 (0xFFE196FF)
YUV	184.3950, 34.8083, 35.6106
Hunter-Lab	67.1120, 42.1896, -41.4857

# Details

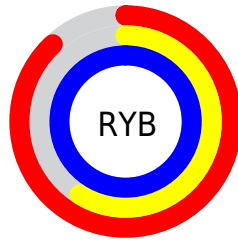
The Yxy color  $45.0402, 0.2925, 0.2195$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $83.4133, 0.3242, 0.4503$ , and the grayscale version is  $47.9632, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $72.1426, 0.3150, 0.2801$ , and  $20.9514, 0.2850, 0.1950$  is the 20% darker color. If you saturate the color by 10%, you get  $36.6277, 0.2857, 0.1932$ , and if you desaturate by 10%, it is  $55.2766, 0.2986, 0.2469$ .

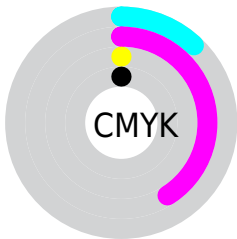
# Distribution



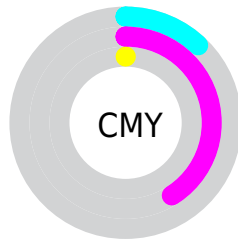
- Red (88%)
- Green (59%)
- Blue (100%)



- Red (88%)
- Yellow (59%)
- Blue (100%)



- Cyan (12%)
- Magenta (41%)
- Yellow (0%)
- Black (0%)




- Cyan (12%)
- Magenta (41%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0402, 0.2925, 0.2195 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 45.0402, 0.2925, 0.2195 by changing the saturation by 10% instead.





 45.0402, 0.2925,  
0.2195


 45.0402, 0.2925,  
0.2195


366.9363, 0.3040,  
0.2692

 31.4891, 0.2894,  
0.2086


 82.7807, 0.2969,  
0.2364

 20.9716, 0.2852,  
0.1954


 107.7389, 0.2985,  
0.2431

 13.1032, 0.2796,  
0.1791


137.2683, 0.2998,  
0.2489

 7.4997, 0.2717,  
0.1587

171.7532, 0.3010,  
0.2540

 3.7765, 0.2599,  
0.1327

211.5781, 0.3019,  
0.2584

 1.5493, 0.2412,  
0.0994

257.1273, 0.3027,

 0.3231, 0.2128,

0.2624

0.0439

308.7853, 0.3034,  
0.2660

0.0000, 0.1307,  
0.0000

0.0000, 0.0000,  
0.0000

45.0402, 0.2925,  
0.2195

45.0402, 0.2925,  
0.2195

36.6277, 0.2857,  
0.1932

55.2766, 0.2986,  
0.2469

29.9168, 0.2783,  
0.1691

67.4375, 0.3040,  
0.2743

24.7790, 0.2705,  
0.1484

81.6226, 0.3085,  
0.3009

21.0643, 0.2626,  
0.1322

97.9231, 0.3123,  
0.3261

■ 18.5931, 0.2550,  
0.1208

99.9998, 0.3127,  
0.3290

■ 17.2007, 0.2485,  
0.1142

# Harmonies

## Analogous

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



45.0402, 0.2210, 0.2012



45.0402, 0.2925, 0.2195



45.0402, 0.3816, 0.2592

# Triad

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



45.0402, 0.2925, 0.2195



45.0402, 0.4575, 0.4361



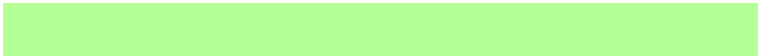
45.0402, 0.1851, 0.3201

# Complementary

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



45.0402, 0.2925, 0.2195



83.4133, 0.3242, 0.4503

# 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.



45.0402, 0.2365, 0.4154



45.0402, 0.2925, 0.2195



45.0402, 0.3936, 0.4823

# Square

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



45.0402, 0.2925, 0.2195



45.0402, 0.4840, 0.3749



45.0402, 0.3129, 0.4818



45.0402, 0.1666, 0.2465



# Rectangle

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



45.0402, 0.2925, 0.2195



45.0402, 0.4356, 0.2944



45.0402, 0.3129, 0.4818



45.0402, 0.1987, 0.3513

# Sweetspot

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



45.0421, 0.2925, 0.2195



80.3893, 0.3082, 0.2988



46.9468, 0.2418, 0.2403



16.7895, 0.3076, 0.2954



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.



45.0421, 0.2925, 0.2195



38.3169, 0.2872, 0.1988



49.0055, 0.3354, 0.2453



18.0249, 0.3092, 0.3052



9.0675, 0.2497, 0.1149



0.9383, 0.2580, 0.1195



# Inverse Universe

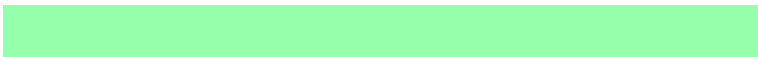
The Inverse Universe completely reimagines the original color for something new.



46.3574, 0.3879, 0.2979



39.9798, 0.4101, 0.2924



80.9398, 0.2964, 0.4309



18.0722, 0.3249, 0.3222



11.3801, 0.5820, 0.2980

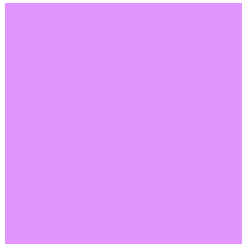


1.1259, 0.5501, 0.2804



# Previews

## White Background



This preview shows how the Yxy color 45.0402, 0.2925, 0.2195 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

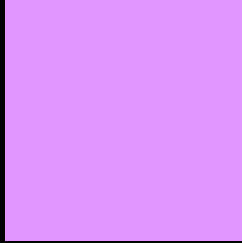
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.0402, 0.2925, 0.2195 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

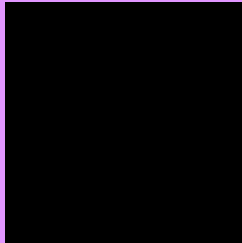
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.0402, 0.2925, 0.2195**

## Background



This preview shows how black text looks on a background with the Yxy color 45.0402, 0.2925, 0.2195.



This preview shows how white text looks on a background with the Yxy color 45.0402, 0.2925, 0.2195.

# 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

45.0402, 0.2925, 0.2195

### Protanopia

45.5343, 0.2433, 0.2353

### Deuteranopia

45.3150, 0.2466, 0.2403



## Tritanopia

44.8233, 0.3461, 0.3134

# Trichromacy



## Original Color

45.0402, 0.2925, 0.2195



## Protanomaly

44.5607, 0.2589, 0.2276



## Deuteranomaly

44.3690, 0.2607, 0.2304



## Tritanomaly

44.5520, 0.3253, 0.2748

# Monochromacy



## Original Color

45.0402, 0.2925, 0.2195



## Achromatopsia

47.9320, 0.3127, 0.3290



## Achromatomaly

46.3003, 0.3054, 0.2832

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0402, 0.2925, 0.2195 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, 150, 255)` looks like.

```
.text, #text, p{  
    color:rgb(225, 150, 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, 150, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 150, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0402, 0.2925, 0.2195 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, 150, 255) }
```

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

```
.border{ border-color:rgb(225, 150, 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, 150, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 150, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 150, 255);  
box-shadow:4px 4px 4px 4px rgb(225, 150,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0402, 0.2925, 0.2195 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 150, 255) }
```

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

```
.background{ background-color: rgb(225,  
150, 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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