

# Converting Colors

$Y_{xy}(50.2005, 0.2613, 0.1770)$

Have a look what the booklet for  
Yxy(50.2005, 0.2613, 0.1770)  
contains.

<b>Yxy(45.9203, 0.3016, 0.2196)</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(45.9203, 0.3016, 0.2196)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EC93FF
RGB	236, 147, 255
RGB Percent	93%, 58%, 100%
CMY	0.0746, 0.4234, 0.0001
CMYK	0.07, 0.42, 0.00, 0.00
HSL	289°, 100%, 79%
HSV	289°, 42%, 100%
XYZ	63.0672, 45.9203, 100.1213
YIQ	185.9230, 18.3760, 52.4560

# Conversions

## Conversions Part 2

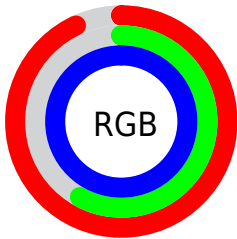
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	236, 147, 255
Decimal	15504383
CIE <sub>Lab</sub>	73.49, 50.36, -40.19
CIE <sub>LCh</sub>	73, 64.425, 321.410
Yxy	45.9203, 0.3016, 0.2196
Android (android.graphics.Color)	4293694463 (0xFFEC93FF)
YUV	185.9230, 34.0550, 43.9175
Hunter-Lab	67.7645, 47.5388, -40.1651

# Details

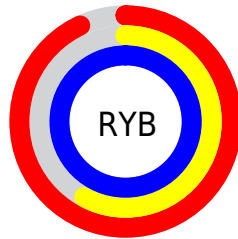
The Yxy color **45.9203, 0.3016, 0.2196** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **81.7161, 0.3173, 0.4569**, and the grayscale version is **48.8577, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.1919, 0.3151, 0.2782**, and **21.5476, 0.2960, 0.1959** is the 20% darker color. If you saturate the color by 10%, you get **38.0927, 0.2977, 0.1953**, and if you desaturate by 10%, it is **55.5282, 0.3050, 0.2455**.

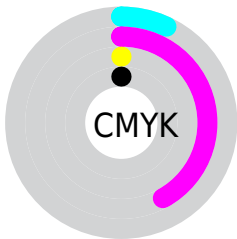
# Distribution



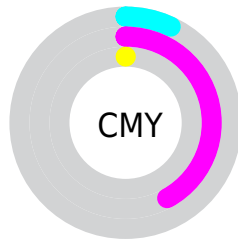
- Red (93%)
- Green (58%)
- Blue (100%)



- Red (93%)
- Yellow (58%)
- Blue (100%)



- Cyan (7%)
- Magenta (42%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (42%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9203, 0.3016, 0.2196 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 45.9203, 0.3016, 0.2196 by changing the saturation by 10% instead.




 45.9203, 0.3016,  
0.2196


 45.9203, 0.3016,  
0.2196


370.4881, 0.3088,  
0.2689

 32.1829, 0.2995,  
0.2088


 84.0997, 0.3045,  
0.2364

 21.5013, 0.2966,  
0.1958


 109.3105, 0.3055,  
0.2430

 13.4909, 0.2926,  
0.1798


139.1146, 0.3063,  
0.2487

 7.7674, 0.2867,  
0.1597

173.8964, 0.3070,  
0.2538

 3.9465, 0.2777,  
0.1343

214.0403, 0.3076,  
0.2582

 1.6437, 0.2630,  
0.1017

259.9306, 0.3081,

 0.3868, 0.2396,

0.2622

0.0502

311.9517, 0.3085,  
0.2657

0.0000, 0.1812,  
0.0000

0.0000, 0.0000,  
0.0000

45.9203, 0.3016,  
0.2196

45.9203, 0.3016,  
0.2196

38.0927, 0.2977,  
0.1953

55.5282, 0.3050,  
0.2455

31.9221, 0.2934,  
0.1737

67.0174, 0.3079,  
0.2720

27.2784, 0.2889,  
0.1559

80.4880, 0.3104,  
0.2981

24.0098, 0.2842,  
0.1424

96.0315, 0.3123,  
0.3233

■ 21.9323, 0.2794,  
0.1336

99.9981, 0.3127,  
0.3290

■ 20.9379, 0.2759,  
0.1294

# Harmonies

## Analogous

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



45.9203, 0.2247, 0.1980



45.9203, 0.3016, 0.2196



45.9203, 0.3947, 0.2625

# Triad

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



45.9203, 0.3016, 0.2196



45.9203, 0.4561, 0.4457



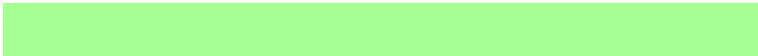
45.9203, 0.1767, 0.3087

# Complementary

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



45.9203, 0.3016, 0.2196



81.7161, 0.3173, 0.4569

# 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.



45.9203, 0.2257, 0.4081



45.9203, 0.3016, 0.2196



45.9203, 0.3866, 0.4912

# Square

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



45.9203, 0.3016, 0.2196



45.9203, 0.4898, 0.3828



45.9203, 0.3025, 0.4842



45.9203, 0.1618, 0.2367



# Rectangle

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



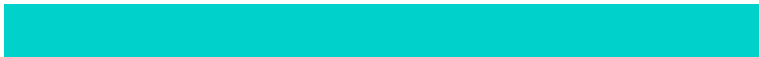
45.9203, 0.3016, 0.2196



45.9203, 0.4487, 0.2995



45.9203, 0.3025, 0.4842



45.9203, 0.1892, 0.3404

# Sweetspot

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



45.9223, 0.3016, 0.2196



79.5538, 0.3102, 0.2964



40.9918, 0.2371, 0.2215



16.3602, 0.3097, 0.2907



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.



45.9223, 0.3016, 0.2196



39.0514, 0.2983, 0.1984



47.3376, 0.3478, 0.2545



18.1293, 0.3110, 0.3054



11.0024, 0.2767, 0.1298



1.1117, 0.2820, 0.1327



# Inverse Universe

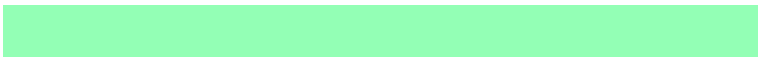
The Inverse Universe completely reimagines the original color for something new.



44.8820, 0.4035, 0.3093



38.0471, 0.4333, 0.3059



81.0506, 0.2899, 0.4184



18.0392, 0.3267, 0.3248



11.2222, 0.6140, 0.3156



1.1063, 0.5855, 0.2999



# Previews

## White Background



This preview shows how the Yxy color 45.9203, 0.3016, 0.2196 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

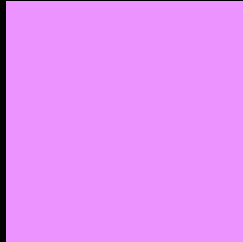
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.9203, 0.3016, 0.2196 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

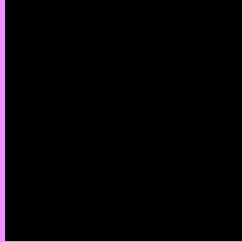
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.9203, 0.3016, 0.2196**

## Background



This preview shows how black text looks on a background with the Yxy color 45.9203, 0.3016, 0.2196.



This preview shows how white text looks on a background with the Yxy color 45.9203, 0.3016, 0.2196.

# 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

45.9203, 0.3016, 0.2196

### Protanopia

46.1287, 0.2448, 0.2368

### Deuteranopia

46.4507, 0.2500, 0.2444



## Tritanopia

45.7328, 0.3588, 0.3140

# Trichromacy



## Original Color

45.9203, 0.3016, 0.2196



## Protanomaly

45.1717, 0.2625, 0.2286



## Deuteranomaly

45.1673, 0.2664, 0.2326



## Tritanomaly

45.5195, 0.3373, 0.2764

# Monochromacy



## Original Color

45.9203, 0.3016, 0.2196



## Achromatopsia

49.1021, 0.3127, 0.3290



## Achromatomaly

47.0456, 0.3089, 0.2826

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9203, 0.3016, 0.2196 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, 147, 255)` looks like.

```
.text, #text, p{  
    color:rgb(236, 147, 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, 147, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 147, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9203, 0.3016, 0.2196 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, 147, 255) }
```

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

```
.border{ border-color:rgb(236, 147, 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, 147, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 147, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 147, 255);  
box-shadow:4px 4px 4px 4px rgb(236, 147,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9203, 0.3016, 0.2196 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 147, 255) }
```

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

```
.background{ background-color: rgb(236,  
147, 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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