

# Converting Colors

Yxy(66.9855, 0.2955, 0.2692)

Have a look what the booklet for  
Yxy(66.9855, 0.2955, 0.2692)  
contains.

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# Color

**Yxy(66.7847, 0.2992, 0.2746)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E9CAFF
RGB	233, 202, 255
RGB Percent	91%, 79%, 100%
CMY	0.0864, 0.2078, 0.0000
CMYK	0.09, 0.21, 0.00, 0.00
HSL	275°, 100%, 90%
HSV	275°, 21%, 100%
XYZ	72.7676, 66.7847, 103.6549
YIQ	217.3110, 1.4630, 23.0550

# Conversions

## Conversions Part 2

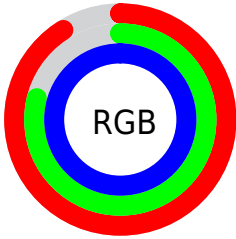
Format	Color
R <sub>Y</sub> B	233, 202, 255
Decimal	15321855
CIE Lab	85.40, 20.36, -21.93
CIE LCh	85, 29.922, 312.877
Yxy	66.7847, 0.2992, 0.2746
Android (android.graphics.Color)	4293511935 (0xFFE9CAFF)
YUV	217.3110, 18.5807, 13.7593
Hunter-Lab	81.7219, 15.9283, -17.9973

# Details

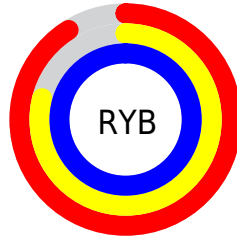
The Yxy color  $66.7847, 0.2992, 0.2746$  is a light color, and the websafe version is hex  $\text{FFCCFF}$ . A complement of this color would be  $91.6314, 0.3238, 0.3845$ , and the grayscale version is  $69.4819, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $34.6041, 0.2958, 0.2630$  is the 20% darker color. If you saturate the color by 10%, you get  $54.0628, 0.2910, 0.2461$ , and if you desaturate by 10%, it is  $81.5963, 0.3063, 0.3018$ .

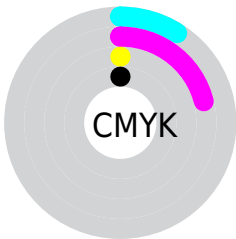
# Distribution



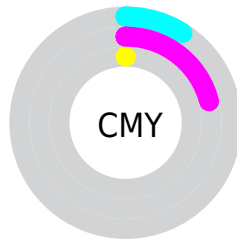
- Red (91%)
- Green (79%)
- Blue (100%)



- Red (91%)
- Yellow (79%)
- Blue (100%)



- Cyan (9%)
- Magenta (21%)
- Yellow (0%)
- Black (0%)



- Cyan (9%)
- Magenta (21%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.7847, 0.2992, 0.2746 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 66.7847, 0.2992, 0.2746 by changing the saturation by 10% instead.



66.7847, 0.2992,  
0.2746

66.7847, 0.2992,  
0.2746

449.1780, 0.3059,  
0.2991

48.9097, 0.2976,  
0.2692

114.6119, 0.3016,  
0.2830

34.5478, 0.2956,  
0.2625

145.3328, 0.3025,  
0.2863

23.3148, 0.2929,  
0.2543

181.1045, 0.3033,  
0.2891

14.8261, 0.2894,  
0.2438

222.3113, 0.3039,  
0.2916

8.6974, 0.2844,  
0.2298

269.3377, 0.3045,  
0.2938

4.5444, 0.2769,  
0.2107


322.5680, 0.3050,


1.9825, 0.2647,

0.2958

0.1829


382.3866, 0.3055,  
0.2975

 0.5973, 0.2437,  
0.1342


 0.0000, 0.0126,  
0.0000


 66.7847, 0.2992,  
0.2746


 66.7847, 0.2992,  
0.2746


 54.0628, 0.2910,  
0.2461


 81.5963, 0.3063,  
0.3018

 43.3233, 0.2817,  
0.2171

 98.5814, 0.3123,  
0.3271

 34.4619, 0.2714,  
0.1886

 99.9994, 0.3127,  
0.3290

 27.3611, 0.2604,  
0.1620

■ 21.8897, 0.2491,  
0.1385

■ 17.8973, 0.2378,  
0.1196

■ 15.2042, 0.2271,  
0.1058

■ 13.6120, 0.2180,  
0.0974

# Harmonies

## Analogous

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



66.7847, 0.2671, 0.2685



66.7847, 0.2992, 0.2746



66.7847, 0.3370, 0.2931

# Triad

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



66.7847, 0.2992, 0.2746



66.7847, 0.3813, 0.3779



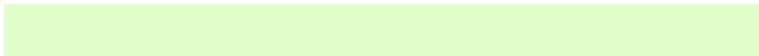
66.7847, 0.2583, 0.3344

# Complementary

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



66.7847, 0.2992, 0.2746



91.6314, 0.3238, 0.3845

# 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.



66.7847, 0.2865, 0.3692



66.7847, 0.2992, 0.2746



66.7847, 0.3577, 0.3941

# Square

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



66.7847, 0.2992, 0.2746



66.7847, 0.3860, 0.3507



66.7847, 0.3228, 0.3918



66.7847, 0.2446, 0.3003



# Rectangle

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



66.7847, 0.2992, 0.2746



66.7847, 0.3600, 0.3106



66.7847, 0.3228, 0.3918



66.7847, 0.2663, 0.3465

# Sweetspot

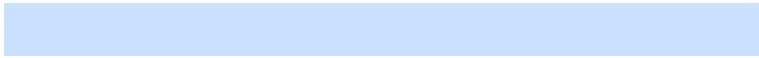
The Sweet Spot groups the original color and five complimentary colors.



66.7875, 0.2992, 0.2746



89.4377, 0.3093, 0.3141



73.1371, 0.2794, 0.2957



18.9076, 0.3089, 0.3125



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.



66.7875, 0.2992, 0.2746



61.1681, 0.2959, 0.2627



70.4450, 0.3182, 0.2813



17.9022, 0.3071, 0.3051



7.2028, 0.2195, 0.0983



0.7655, 0.2307, 0.1045



# Inverse Universe

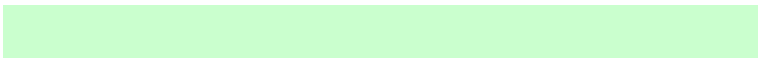
The Inverse Universe completely reimagines the original color for something new.



68.8900, 0.3376, 0.3068



63.6791, 0.3441, 0.3020



88.5503, 0.3076, 0.3819



18.1123, 0.3229, 0.3192



11.6802, 0.5320, 0.2704



1.1584, 0.5025, 0.2542



# Previews

## White Background



This preview shows how the Yxy color 66.7847, 0.2992, 0.2746 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

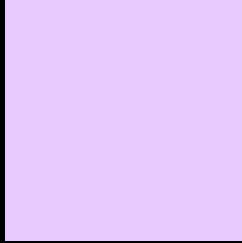
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.7847, 0.2992, 0.2746 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

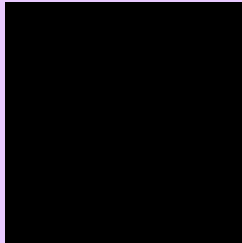
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

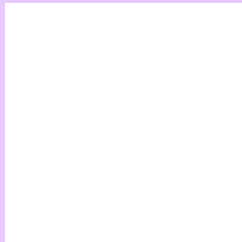
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 66.7847, 0.2992, 0.2746**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.7847, 0.2992, 0.2746.

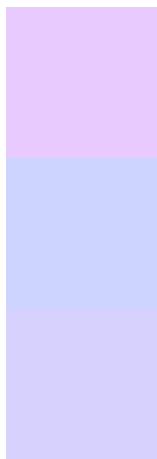


This preview shows how white text looks on a background with the Yxy color 66.7847, 0.2992, 0.2746.

# 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

66.7847, 0.2992, 0.2746

### Protanopia

67.1443, 0.2797, 0.2825

### Deuteranopia

67.2038, 0.2875, 0.2811



## Tritanopia

66.9875, 0.3165, 0.3118

# Trichromacy



## Original Color

66.7847, 0.2992, 0.2746

## Protanomaly

66.7788, 0.2868, 0.2791

## Deuteranomaly

66.8280, 0.2922, 0.2786

## Tritanomaly

66.9638, 0.3104, 0.2983

# Monochromacy



## Original Color

66.7847, 0.2992, 0.2746

## Achromatopsia

69.3872, 0.3127, 0.3290

## Achromatomaly

68.5445, 0.3079, 0.3085

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.7847, 0.2992, 0.2746 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(233, 202, 255)` looks like.

```
.text, #text, p{  
    color:rgb(233, 202, 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(233, 202, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 202, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 66.7847, 0.2992, 0.2746 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(233, 202, 255) }
```

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

```
.border{ border-color:rgb(233, 202, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 202, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 202, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 202, 255);  
box-shadow:4px 4px 4px 4px rgb(233, 202,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.7847, 0.2992, 0.2746 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 202, 255) }
```

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

```
.background{ background-color: rgb(233,  
202, 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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