

# Converting Colors

$Y_{xy}(63.5843, 0.2960, 0.2711)$

Have a look what the booklet for  
Yxy(63.5843, 0.2960, 0.2711)  
contains.

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# Color

**Yxy(63.8109, 0.2962, 0.2715)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3C6FD
RGB	227, 198, 253
RGB Percent	89%, 78%, 99%
CMY	0.1096, 0.2236, 0.0077
CMYK	0.10, 0.22, 0.00, 0.01
HSL	272°, 93%, 88%
HSV	272°, 22%, 99%
XYZ	69.6162, 63.8109, 101.6039
YIQ	212.9410, -0.3710, 23.2530

# Conversions

## Conversions Part 2

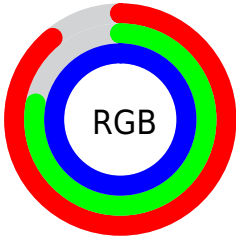
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	227, 198, 253
Decimal	14927613
CIE Lab	83.87, 20.24, -23.26
CIE LCh	84, 30.832, 311.041
Yxy	63.8109, 0.2962, 0.2715
Android (android.graphics.Color)	4293117693 (0xFFE3C6FD)
YUV	212.9410, 19.7491, 12.3297
Hunter-Lab	79.8817, 15.7680, -19.4955

# Details

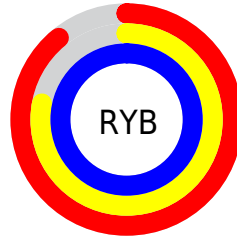
The Yxy color **63.8109, 0.2962, 0.2715** is a light color, and the websafe version is hex **FFCCFF**. A complement of this color would be **90.1924, 0.3263, 0.3870**, and the grayscale version is **66.3689, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **32.5900, 0.2918, 0.2589** is the 20% darker color. If you saturate the color by 10%, you get **51.3211, 0.2866, 0.2425**, and if you desaturate by 10%, it is **78.3730, 0.3045, 0.2991**.

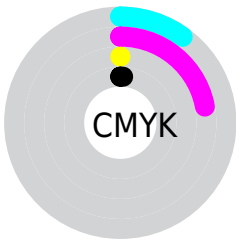
# Distribution



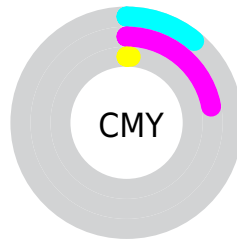
- Red (89%)
- Green (78%)
- Blue (99%)



- Red (89%)
- Yellow (78%)
- Blue (99%)



- Cyan (10%)
- Magenta (22%)
- Yellow (0%)
- Black (1%)




- Cyan (11%)
- Magenta (22%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8109, 0.2962, 0.2715 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 63.8109, 0.2962, 0.2715 by changing the saturation by 10% instead.




 63.8109, 0.2962,  
0.2715

 63.8109, 0.2962,  
0.2715

438.5064, 0.3043,  
0.2976

 46.4975, 0.2942,  
0.2657

110.3386, 0.2991,  
0.2804

 32.6386, 0.2917,  
0.2586

140.3216, 0.3002,  
0.2839

 21.8497, 0.2885,  
0.2497


175.2967, 0.3012,  
0.2870

 13.7465, 0.2842,  
0.2384

215.6483, 0.3020,  
0.2896

 7.9446, 0.2781,  
0.2233

261.7606, 0.3027,  
0.2920

 4.0595, 0.2689,  
0.2025

314.0181, 0.3033,

 1.7069, 0.2538,

0.2940

0.1723

372.8053, 0.3039,  
0.2959

0.4281, 0.2303,  
0.1092

0.0000, 0.0000,  
0.0000

63.8109, 0.2962,  
0.2715

63.8109, 0.2962,  
0.2715

51.3211, 0.2866,  
0.2425

78.3730, 0.3045,  
0.2991

40.7970, 0.2759,  
0.2128

95.0913, 0.3116,  
0.3247

32.1343, 0.2641,  
0.1835

99.8740, 0.3138,  
0.3309

25.2155, 0.2516,  
0.1561

■ 19.9095, 0.2388,  
0.1320

■ 16.0654, 0.2263,  
0.1126

■ 13.5021, 0.2147,  
0.0986

■ 12.1267, 0.2060,  
0.0909

# Harmonies

## Analogous

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



63.8109, 0.2633, 0.2660



63.8109, 0.2962, 0.2715



63.8109, 0.3356, 0.2901

# Triad

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



63.8109, 0.2962, 0.2715



63.8109, 0.3854, 0.3784



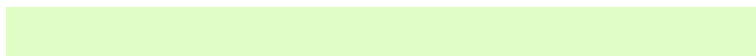
63.8109, 0.2573, 0.3369

# Complementary

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



63.8109, 0.2962, 0.2715



90.1924, 0.3263, 0.3870

# 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.



63.8109, 0.2874, 0.3732



63.8109, 0.2962, 0.2715



63.8109, 0.3616, 0.3966

# Square

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



63.8109, 0.2962, 0.2715



63.8109, 0.3890, 0.3495



63.8109, 0.3255, 0.3957



63.8109, 0.2420, 0.3008



# Rectangle

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



63.8109, 0.2962, 0.2715



63.8109, 0.3601, 0.3079



63.8109, 0.3255, 0.3957



63.8109, 0.2659, 0.3496

# Sweetspot

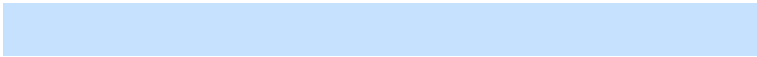
The Sweet Spot groups the original color and five complimentary colors.



63.8136, 0.2962, 0.2715



87.5717, 0.3080, 0.3115



72.7282, 0.2780, 0.2981



18.5257, 0.3076, 0.3100



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.



63.8136, 0.2962, 0.2715



59.2851, 0.2923, 0.2593



68.3064, 0.3159, 0.2756



17.8496, 0.3062, 0.3050



6.5366, 0.2076, 0.0917



0.7015, 0.2196, 0.0983



# Inverse Universe

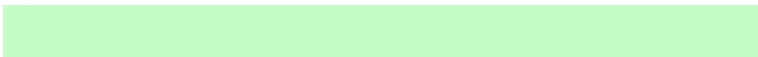
The Inverse Universe completely reimagines the original color for something new.



66.6513, 0.3367, 0.3026



62.6937, 0.3426, 0.2971



86.3952, 0.3093, 0.3889



18.1299, 0.3220, 0.3178



11.8521, 0.5083, 0.2574

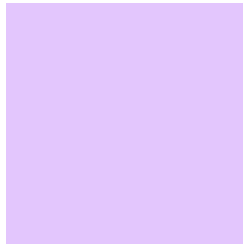


1.1759, 0.4813, 0.2425



# Previews

## White Background



This preview shows how the Yxy color 63.8109, 0.2962, 0.2715 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

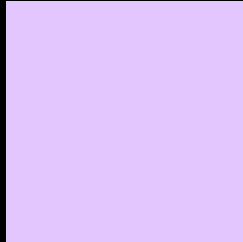
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.8109, 0.2962, 0.2715 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

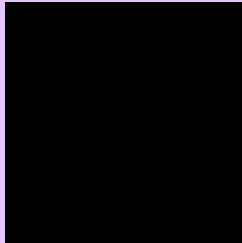
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.8109, 0.2962, 0.2715**

## Background



This preview shows how black text looks on a background with the Yxy color 63.8109, 0.2962, 0.2715.

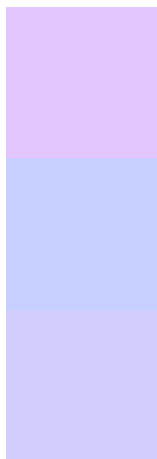


This preview shows how white text looks on a background with the Yxy color 63.8109, 0.2962, 0.2715.

# 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

63.8109, 0.2962, 0.2715

### Protanopia

63.8514, 0.2755, 0.2763

### Deuteranopia

64.2462, 0.2844, 0.2782



## Tritanopia

63.8826, 0.3151, 0.3114

# Trichromacy



## Original Color

63.8109, 0.2962, 0.2715

## Protanomaly

63.8968, 0.2831, 0.2751

## Deuteranomaly

63.8683, 0.2891, 0.2756

## Tritanomaly

63.9145, 0.3082, 0.2966

# Monochromacy



## Original Color

63.8109, 0.2962, 0.2715

## Achromatopsia

66.5387, 0.3127, 0.3290

## Achromatomaly

65.6186, 0.3064, 0.3071

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.8109, 0.2962, 0.2715 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(227, 198, 253)` looks like.

```
.text, #text, p{  
    color:rgb(227, 198, 253)  
}
```

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(227, 198, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 198, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 63.8109, 0.2962, 0.2715 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(227, 198, 253) }
```

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

```
.border{ border-color:rgb(227, 198, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 198, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 198, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 198, 253);  
box-shadow:4px 4px 4px 4px rgb(227, 198,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.8109, 0.2962, 0.2715 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 198, 253) }
```

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

```
.background{ background-color: rgb(227,  
198, 253) }
```

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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