

# Converting Colors

$Y_{xy}(64.4178, 0.3035, 0.2931)$

Have a look what the booklet for  
Yxy(64.4178, 0.3035, 0.2931)  
contains.

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# Color

**Yxy(64.3559, 0.3033, 0.2923)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DECBED
RGB	222, 203, 237
RGB Percent	87%, 80%, 93%
CMY	0.1292, 0.2040, 0.0705
CMYK	0.06, 0.14, 0.00, 0.07
HSL	274°, 49%, 86%
HSV	274°, 14%, 93%
XYZ	66.7778, 64.3559, 89.0370
YIQ	212.5570, 0.4100, 14.6020

# Conversions

## Conversions Part 2

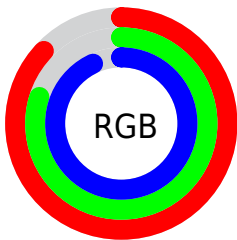
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	222, 203, 237
Decimal	14601197
CIE Lab	84.15, 12.81, -14.35
CIE LCh	84, 19.238, 311.756
Yxy	64.3559, 0.3033, 0.2923
Android (android.graphics.Color)	4292791277 (0xFFDECBED)
YUV	212.5570, 12.0504, 8.2815
Hunter-Lab	80.2221, 8.1966, -9.6494

# Details

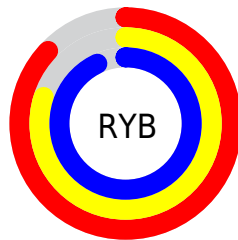
The Yxy color  $64.3559, 0.3033, 0.2923$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $79.7909, 0.3210, 0.3661$ , and the grayscale version is  $66.1515, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $33.0466, 0.3011, 0.2841$  is the 20% darker color. If you saturate the color by 10%, you get  $52.4105, 0.2954, 0.2646$ , and if you desaturate by 10%, it is  $78.1200, 0.3101, 0.3183$ .

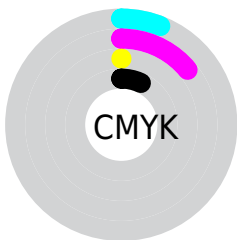
# Distribution



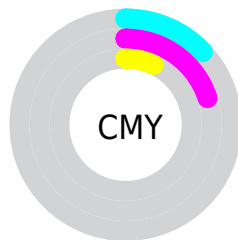
- Red (87%)
- Green (80%)
- Blue (93%)



- Red (87%)
- Yellow (80%)
- Blue (93%)



- Cyan (6%)
- Magenta (14%)
- Yellow (0%)
- Black (7%)



- Cyan (13%)
- Magenta (20%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.3559, 0.3033, 0.2923 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 64.3559, 0.3033, 0.2923 by changing the saturation by 10% instead.



64.3559, 0.3033,  
0.2923

64.3559, 0.3033,  
0.2923

440.4737, 0.3079,  
0.3092

46.9390, 0.3022,  
0.2885

111.1233, 0.3049,  
0.2982

32.9874, 0.3008,  
0.2837

141.2426, 0.3056,  
0.3004

22.1168, 0.2990,  
0.2777

176.3649, 0.3061,  
0.3024

13.9428, 0.2965,  
0.2699

216.8744, 0.3066,  
0.3041

8.0809, 0.2930,  
0.2594

263.1557, 0.3070,  
0.3056

4.1467, 0.2877,  
0.2443

315.5931, 0.3073,

1.7560, 0.2786,

0.3070

0.2211

374.5710, 0.3076,  
0.3082

0.4595, 0.2658,  
0.1630

0.0000, 0.0000,  
0.0000

64.3559, 0.3033,  
0.2923

64.3559, 0.3033,  
0.2923

52.4105, 0.2954,  
0.2646

78.1200, 0.3101,  
0.3183

42.1962, 0.2862,  
0.2357

93.7689, 0.3158,  
0.3423

33.6305, 0.2760,  
0.2065

98.5812, 0.3221,  
0.3464

26.6208, 0.2649,  
0.1782

98.8956, 0.3232,  
0.3463

■ 21.0646, 0.2531,  
0.1521

■ 16.8473, 0.2412,  
0.1297

■ 13.8356, 0.2296,  
0.1120

■ 11.8675, 0.2187,  
0.0998

■ 11.0788, 0.2130,  
0.0947

# Harmonies

## Analogous

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



64.3559, 0.2821, 0.2889



64.3559, 0.3033, 0.2923



64.3559, 0.3278, 0.3046

# Triad

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



64.3559, 0.3033, 0.2923



64.3559, 0.3578, 0.3611



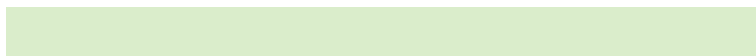
64.3559, 0.2775, 0.3338

# Complementary

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



64.3559, 0.3033, 0.2923



79.7909, 0.3210, 0.3661

# 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.



64.3559, 0.2967, 0.3554



64.3559, 0.3033, 0.2923



64.3559, 0.3432, 0.3711

# Square

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



64.3559, 0.3033, 0.2923



64.3559, 0.3600, 0.3434



64.3559, 0.3207, 0.3693



64.3559, 0.2677, 0.3117



# Rectangle

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



64.3559, 0.3033, 0.2923



64.3559, 0.3427, 0.3164



64.3559, 0.3207, 0.3693



64.3559, 0.2830, 0.3414

# Sweetspot

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



64.3586, 0.3033, 0.2923



92.8224, 0.3103, 0.3192



69.1104, 0.2902, 0.3082



19.5875, 0.3098, 0.3173



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.



64.3586, 0.3033, 0.2923



71.9518, 0.3013, 0.2849



66.7311, 0.3156, 0.2952



14.9649, 0.3068, 0.3053



6.1266, 0.2146, 0.0956



0.5379, 0.2287, 0.1034



# Inverse Universe

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



65.7746, 0.3281, 0.3131



73.9263, 0.3316, 0.3100



77.6674, 0.3099, 0.3652



15.1642, 0.3224, 0.3187



10.4042, 0.5209, 0.2643



0.8360, 0.4864, 0.2453



# Previews

## White Background



This preview shows how the Yxy color 64.3559, 0.3033, 0.2923 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

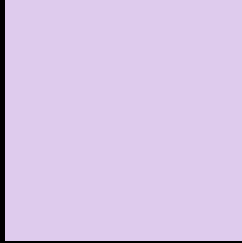
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.3559, 0.3033, 0.2923 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

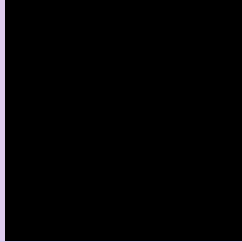
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.3559, 0.3033, 0.2923**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.3559, 0.3033, 0.2923.



This preview shows how white text looks on a background with the Yxy color 64.3559, 0.3033, 0.2923.

# 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

64.3559, 0.3033, 0.2923

### Protanopia

64.3822, 0.2893, 0.2935

### Deuteranopia

64.2056, 0.3004, 0.2931



## Tritanopia

64.6322, 0.3120, 0.3114

# Trichromacy



## Original Color

64.3559, 0.3033, 0.2923

## Protanomaly

64.2235, 0.2941, 0.2927

## Deuteranomaly

64.3602, 0.3011, 0.2932

## Tritanomaly

64.5808, 0.3094, 0.3049

# Monochromacy



## Original Color

64.3559, 0.3033, 0.2923

## Achromatopsia

66.5387, 0.3127, 0.3290

## Achromatomaly

65.4738, 0.3090, 0.3146

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.3559, 0.3033, 0.2923 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(222, 203, 237)` looks like.

```
.text, #text, p{  
    color:rgb(222, 203, 237)  
}
```

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(222, 203, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 203, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 64.3559, 0.3033, 0.2923 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(222, 203, 237) }
```

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

```
.border{ border-color:rgb(222, 203, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 203, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 203, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 203, 237);  
box-shadow:4px 4px 4px 4px rgb(222, 203,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.3559, 0.3033, 0.2923 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 203, 237) }
```

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

```
.background{ background-color: rgb(222,  
203, 237) }
```

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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