

# Converting Colors

$Y_{xy}(31.8873, 0.3534, 0.2912)$

Have a look what the booklet for  
Yxy(31.8873, 0.3534, 0.2912)  
contains.

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# Color

**Yxy(31.8367, 0.3540, 0.2913)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C786A3
RGB	199, 134, 163
RGB Percent	78%, 53%, 64%
CMY	0.2196, 0.4745, 0.3607
CMYK	0.00, 0.33, 0.18, 0.22
HSL	333°, 37%, 65%
HSV	333°, 33%, 78%
XYZ	38.6893, 31.8367, 38.7658
YIQ	156.7410, 29.4310, 22.7990

# Conversions

## Conversions Part 2

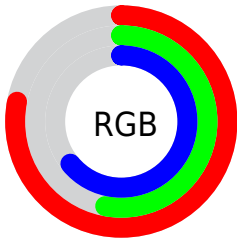
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	199, 134, 163
Decimal	13076131
CIE <sub>Lab</sub>	63.21, 29.14, -5.19
CIE <sub>LCh</sub>	63, 29.602, 349.910
Yxy	31.8367, 0.3540, 0.2913
Android (android.graphics.Color)	4291266211 (0xFFC786A3)
YUV	156.7410, 3.0857, 37.0611
Hunter-Lab	56.4240, 23.6533, -1.2380

# Details

The Yxy color **31.8367, 0.3540, 0.2913** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **48.8143, 0.2846, 0.3704**, and the grayscale version is **33.5717, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.2884, 0.3444, 0.2984**, and **13.2635, 0.3684, 0.2798** is the 20% darker color. If you saturate the color by 10%, you get **26.4671, 0.3723, 0.2796**, and if you desaturate by 10%, it is **38.2786, 0.3386, 0.3033**.

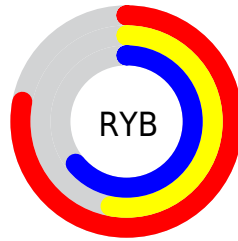
# Distribution



Red (78%)

Green (53%)

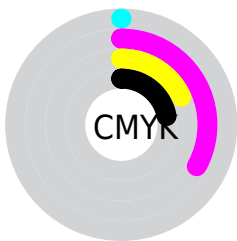
Blue (64%)



Red (78%)

Yellow (53%)

Blue (64%)

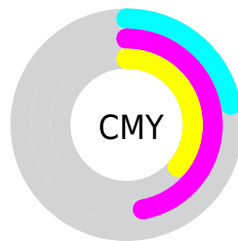


Cyan (0%)

Magenta (33%)

Yellow (18%)

Black (22%)



Cyan (22%)

Magenta (47%)


Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.8367, 0.3540, 0.2913 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 31.8367, 0.3540, 0.2913 by changing the saturation by 10% instead.





 31.8367, 0.3540,  
0.2913


 31.8367, 0.3540,  
0.2913


310.3747, 0.3323,  
0.3109

 21.2368, 0.3598,  
0.2862


 62.5550, 0.3459,  
0.2986

 13.2972, 0.3674,  
0.2795


 83.4422, 0.3429,  
0.3013

 7.6335, 0.3780,  
0.2703


 108.5273, 0.3404,  
0.3035

 3.8614, 0.3937,  
0.2570

138.1946, 0.3383,  
0.3054

 1.5963, 0.4190,  
0.2361

172.8286, 0.3365,  
0.3071

 0.3551, 0.4913,  
0.1636

212.8137, 0.3349,

 0.0000, 0.0000,

0.3085

0.0000

258.5343, 0.3335,  
0.3097

■ 31.8367, 0.3540,  
0.2913

■ 31.8367, 0.3540,  
0.2913

■ 26.4671, 0.3723,  
0.2796

■ 38.2786, 0.3386,  
0.3033

■ 22.1064, 0.3937,  
0.2688

■ 45.8429, 0.3258,  
0.3150

■ 18.6911, 0.4181,  
0.2601


■ 54.5817, 0.3152,  
0.3262

■ 16.1488, 0.4448,  
0.2546


■ 64.5428, 0.3065,  
0.3366

■ 14.3962, 0.4728,  
0.2536


■ 75.7711, 0.2993,  
0.3462

 13.3338, 0.5003,  
0.2579

 88.3093, 0.2934,  
0.3551

 12.8599, 0.5197,  
0.2637

 89.9600, 0.2876,  
0.3447

 90.6351, 0.2819,  
0.3330

 90.8813, 0.2800,  
0.3289

# Harmonies

## Analogous

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



31.8367, 0.3062, 0.2657



31.8367, 0.3540, 0.2913



31.8367, 0.3920, 0.3260

# Triad

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



31.8367, 0.3540, 0.2913



31.8367, 0.3592, 0.4135



31.8367, 0.2269, 0.2837

# Complementary

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



31.8367, 0.3540, 0.2913



48.8143, 0.2846, 0.3704

# 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.



31.8367, 0.2387, 0.3242



31.8367, 0.3540, 0.2913



31.8367, 0.3136, 0.4053

# Square

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



31.8367, 0.3540, 0.2913



31.8367, 0.3939, 0.3961



31.8367, 0.2697, 0.3708



31.8367, 0.2356, 0.2595



# Rectangle

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



31.8367, 0.3540, 0.2913



31.8367, 0.4049, 0.3511



31.8367, 0.2697, 0.3708



31.8367, 0.2286, 0.2957

# Sweetspot

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



31.8382, 0.3540, 0.2913



83.9197, 0.3229, 0.3179



29.6932, 0.2876, 0.2415



17.5157, 0.3245, 0.3162



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.



31.8382, 0.3540, 0.2913



49.0541, 0.3663, 0.2831



31.8266, 0.3860, 0.3335



10.7143, 0.3221, 0.3187



8.2869, 0.5164, 0.2618



0.4069, 0.4654, 0.2338



# Inverse Universe

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



31.8382, 0.3540, 0.2913



49.0541, 0.3663, 0.2831



48.5567, 0.2660, 0.3244



10.7143, 0.3221, 0.3187



8.2869, 0.5164, 0.2618



0.4069, 0.4654, 0.2338



# Previews

## White Background



This preview shows how the Yxy color 31.8367, 0.3540, 0.2913 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

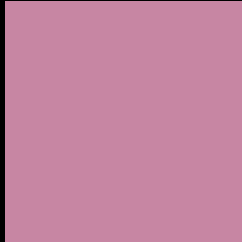
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.8367, 0.3540, 0.2913 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

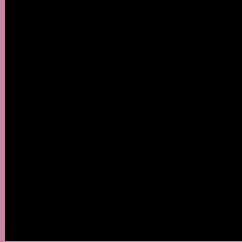
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.8367, 0.3540, 0.2913**

## Background



This preview shows how black text looks on a background with the Yxy color 31.8367, 0.3540, 0.2913.



This preview shows how white text looks on a background with the Yxy color 31.8367, 0.3540, 0.2913.

# 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

31.8367, 0.3540, 0.2913

### Protanopia

31.9965, 0.2912, 0.2962

### Deuteranopia

32.0323, 0.3186, 0.3129



## Tritanopia

31.8682, 0.3691, 0.3158

# Trichromacy



## Original Color

31.8367, 0.3540, 0.2913

## Protanomaly

31.4779, 0.3123, 0.2932

## Deuteranomaly

31.8668, 0.3307, 0.3051

## Tritanomaly

31.9140, 0.3637, 0.3067

# Monochromacy



## Original Color

31.8367, 0.3540, 0.2913

## Achromatopsia

33.7164, 0.3127, 0.3290

## Achromatomaly

32.7688, 0.3267, 0.3147

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.8367, 0.3540, 0.2913 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(199, 134, 163)` looks like.

```
.text, #text, p{  
    color:rgb(199, 134, 163)  
}
```

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(199, 134, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 134, 163) }
```

## Border

The CSS property to change the border of an element to Yxy 31.8367, 0.3540, 0.2913 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(199, 134, 163) }
```

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

```
.border{ border-color:rgb(199, 134, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 134, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 134, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 134, 163);  
box-shadow:4px 4px 4px 4px rgb(199, 134,  
163) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.8367, 0.3540, 0.2913 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 134, 163) }
```

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

```
.background{ background-color: rgb(199,  
134, 163) }
```

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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