

# Converting Colors

$Y_{xy}(31.1410, 0.3288, 0.2548)$

Have a look what the booklet for  
Yxy(31.1410, 0.3288, 0.2548)  
contains.

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**Color**

**Yxy(31.1683, 0.3290, 0.2548)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C780BB
RGB	199, 128, 187
RGB Percent	78%, 50%, 73%
CMY	0.2196, 0.4980, 0.2666
CMYK	0.00, 0.36, 0.06, 0.22
HSL	310°, 39%, 64%
HSV	310°, 36%, 78%
XYZ	40.2448, 31.1683, 50.9115
YIQ	155.9550, 23.3770, 33.4010

# Conversions

## Conversions Part 2

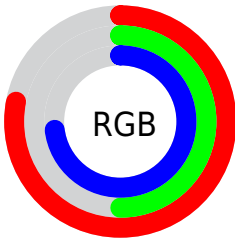
Format	Color
R <sub>Y</sub> B	199, 128, 187
Decimal	13074619
CIE Lab	62.65, 36.45, -19.63
CIE LCh	63, 41.400, 331.696
Yxy	31.1683, 0.3290, 0.2548
Android (android.graphics.Color)	4291264699 (0xFFC780BB)
YUV	155.9550, 15.3052, 37.7505
Hunter-Lab	55.8286, 30.9741, -14.9880

# Details

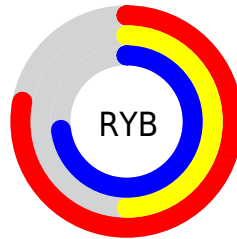
The Yxy color **31.1683, 0.3290, 0.2548** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **47.3354, 0.3000, 0.4169**, and the grayscale version is **33.1481, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1870, 0.3252, 0.2683**, and **12.9583, 0.3326, 0.2335** is the 20% darker color. If you saturate the color by 10%, you get **26.3350, 0.3348, 0.2349**, and if you desaturate by 10%, it is **37.0259, 0.3237, 0.2757**.

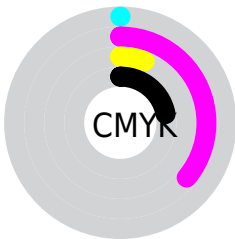
# Distribution



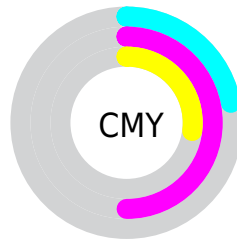
- Red (78%)
- Green (50%)
- Blue (73%)



- Red (78%)
- Yellow (50%)
- Blue (73%)



- Cyan (0%)
- Magenta (36%)
- Yellow (6%)
- Black (22%)




- Cyan (22%)
- Magenta (50%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.1683, 0.3290, 0.2548 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 31.1683, 0.3290, 0.2548 by changing the saturation by 10% instead.





 31.1683, 0.3290,  
0.2548


 31.1683, 0.3290,  
0.2548


307.3129, 0.3214,  
0.2919

 20.7270, 0.3307,  
0.2456


 61.5049, 0.3264,  
0.2683

 12.9246, 0.3328,  
0.2338


 82.1691, 0.3253,  
0.2733

 7.3767, 0.3354,  
0.2182


 107.0097, 0.3244,  
0.2776

 3.6988, 0.3385,  
0.1967

136.4111, 0.3237,  
0.2813

 1.5065, 0.3421,  
0.1657

170.7578, 0.3230,  
0.2845

 0.2933, 0.3571,  
0.0864

210.4340, 0.3224,

 0.0000, 0.1931,

0.2873

0.0000

255.8243, 0.3218,  
0.2898

0.0000, 0.0000,  
0.0000

31.1683, 0.3290,  
0.2548

31.1683, 0.3290,  
0.2548

26.3350, 0.3348,  
0.2349

37.0259, 0.3237,  
0.2757

22.4619, 0.3410,  
0.2168

43.9586, 0.3190,  
0.2969

19.4845, 0.3475,  
0.2017


52.0187, 0.3148,  
0.3176


17.3284, 0.3541,  
0.1904


61.2541, 0.3112,  
0.3374

15.9070, 0.3605,  
0.1835


71.7097, 0.3081,  
0.3562

 15.1136, 0.3666,  
0.1810

 83.4282, 0.3055,  
0.3736

 14.8738, 0.3692,  
0.1807

 88.3450, 0.3035,  
0.3775

 88.5151, 0.3016,  
0.3737

 88.6887, 0.2998,  
0.3699

# Harmonies

## Analogous

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



31.1683, 0.2650, 0.2314



31.1683, 0.3290, 0.2548



31.1683, 0.3947, 0.2939

# Triad

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



31.1683, 0.3290, 0.2548



31.1683, 0.4078, 0.4338



31.1683, 0.2020, 0.2954

# Complementary

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



31.1683, 0.3290, 0.2548



47.3354, 0.3000, 0.4169

# 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.



31.1683, 0.2329, 0.3621



31.1683, 0.3290, 0.2548



31.1683, 0.3508, 0.4503

# Square

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



31.1683, 0.3290, 0.2548



31.1683, 0.4411, 0.3920



31.1683, 0.2867, 0.4243



31.1683, 0.1978, 0.2488



# Rectangle

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



31.1683, 0.3290, 0.2548



31.1683, 0.4271, 0.3255



31.1683, 0.2867, 0.4243



31.1683, 0.2094, 0.3162

# Sweetspot

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



31.1697, 0.3290, 0.2548



83.0891, 0.3170, 0.3063



25.1228, 0.2589, 0.2257



17.3760, 0.3176, 0.3035



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.



31.1697, 0.3290, 0.2548



47.7009, 0.3336, 0.2388



29.8378, 0.3687, 0.2980



10.7846, 0.3163, 0.3100



9.5741, 0.3684, 0.1803



0.4617, 0.3569, 0.1740



# Inverse Universe

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



31.1697, 0.3290, 0.2548



47.7009, 0.3336, 0.2388



48.5504, 0.2773, 0.3629



10.7846, 0.3163, 0.3100



9.5741, 0.3684, 0.1803

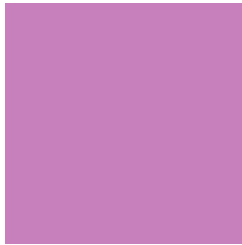


0.4617, 0.3569, 0.1740



# Previews

## White Background



This preview shows how the Yxy color 31.1683, 0.3290, 0.2548 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

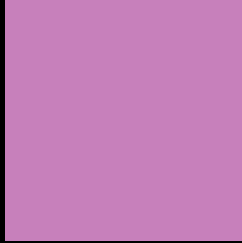
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.1683, 0.3290, 0.2548 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

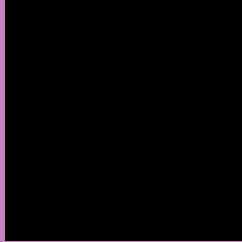
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.1683, 0.3290, 0.2548**

## Background



This preview shows how black text looks on a background with the Yxy color 31.1683, 0.3290, 0.2548.



This preview shows how white text looks on a background with the Yxy color 31.1683, 0.3290, 0.2548.

# 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

31.1683, 0.3290, 0.2548

### Protanopia

31.4429, 0.2574, 0.2529

### Deuteranopia

31.4931, 0.2843, 0.2793



## Tritanopia

31.1530, 0.3672, 0.3157

# Trichromacy



## Original Color

31.1683, 0.3290, 0.2548



## Protanomaly

30.8508, 0.2806, 0.2527



## Deuteranomaly

30.8353, 0.2994, 0.2690



## Tritanomaly

31.0840, 0.3532, 0.2921

# Monochromacy



## Original Color

31.1683, 0.3290, 0.2548



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

32.1184, 0.3192, 0.2992

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.1683, 0.3290, 0.2548 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, 128, 187)` looks like.

```
.text, #text, p{  
    color:rgb(199, 128, 187)  
}
```

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, 128, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 128, 187) }
```

## Border

The CSS property to change the border of an element to Yxy 31.1683, 0.3290, 0.2548 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, 128, 187) }
```

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

```
.border{ border-color:rgb(199, 128, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 128, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 128, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 128, 187);  
box-shadow:4px 4px 4px 4px rgb(199, 128,  
187) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.1683, 0.3290, 0.2548 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 128, 187) }
```

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

```
.background{ background-color: rgb(199,  
128, 187) }
```

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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