

# Converting Colors

$Y_{xy}(30.9701, 0.2899, 0.1956)$

Have a look what the booklet for  
Yxy(30.9701, 0.2899, 0.1956)  
contains.

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**Color**

**Yxy(31.0393, 0.2898, 0.1960)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CC73EA
RGB	204, 115, 234
RGB Percent	80%, 45%, 92%
CMY	0.1998, 0.5491, 0.0823
CMYK	0.13, 0.51, 0.00, 0.08
HSL	285°, 74%, 68%
HSV	285°, 51%, 92%
XYZ	45.8938, 31.0393, 81.4307
YIQ	155.1770, 14.8450, 55.8770

# Conversions

## Conversions Part 2

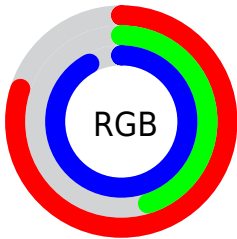
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	204, 115, 234
Decimal	13399018
CIE Lab	62.54, 53.72, -46.12
CIE LCh	63, 70.807, 319.352
Yxy	31.0393, 0.2898, 0.1960
Android (android.graphics.Color)	4291589098 (0xFFCC73EA)
YUV	155.1770, 38.8597, 42.8178
Hunter-Lab	55.7129, 49.5427, -47.6599

# Details

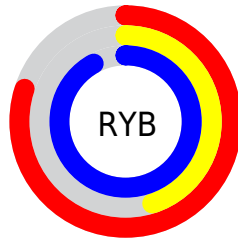
The Yxy color **31.0393, 0.2898, 0.1960** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **66.1117, 0.3227, 0.4828**, and the grayscale version is **32.6801, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.2295, 0.3166, 0.2460**, and **12.8626, 0.2790, 0.1647** is the 20% darker color. If you saturate the color by 10%, you get **25.5478, 0.2834, 0.1725**, and if you desaturate by 10%, it is **37.9192, 0.2957, 0.2218**.

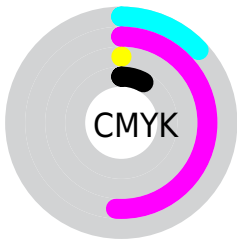
# Distribution



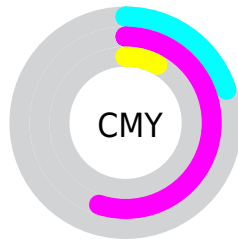
- Red (80%)
- Green (45%)
- Blue (92%)



- Red (80%)
- Yellow (45%)
- Blue (92%)



- Cyan (13%)
- Magenta (51%)
- Yellow (0%)
- Black (8%)




- Cyan (20%)
- Magenta (55%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.0393, 0.2898, 0.1960 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 31.0393, 0.2898, 0.1960 by changing the saturation by 10% instead.





 31.0393, 0.2898,  
0.1960


 31.0393, 0.2898,  
0.1960


306.7193, 0.3041,  
0.2583


 20.6288, 0.2855,  
0.1820


 61.3019, 0.2956,  
0.2175

 12.8529, 0.2797,  
0.1649


 81.9228, 0.2976,  
0.2260

 7.3273, 0.2715,  
0.1439


 106.7160, 0.2992,  
0.2332

 3.6677, 0.2593,  
0.1177

136.0658, 0.3005,  
0.2395

 1.4894, 0.2402,  
0.0852

170.3566, 0.3017,  
0.2451

 0.2813, 0.2116,  
0.0328

209.9729, 0.3026,

 0.0000, 0.1466,

0.2500


0.0000


255.2990, 0.3034,  
0.2544

 0.0000, 0.0000,  
0.0000

 31.0393, 0.2898,  
0.1960


 31.0393, 0.2898,  
0.1960


 25.5478, 0.2834,  
0.1725


 37.9192, 0.2957,  
0.2218

 21.3360, 0.2767,  
0.1524


 46.2777, 0.3009,  
0.2486


 18.2848, 0.2698,  
0.1366


 56.2018, 0.3054,  
0.2756


 16.2506, 0.2630,  
0.1255

 67.7704, 0.3093,  
0.3019

 15.0651, 0.2570,  
0.1189

 81.0573, 0.3125,  
0.3269

 95.8829, 0.3151,  
0.3499

 96.9280, 0.3188,  
0.3497

 98.0068, 0.3225,  
0.3494

 98.7218, 0.3250,  
0.3493

# Harmonies

## Analogous

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



31.0393, 0.2008, 0.1728



31.0393, 0.2898, 0.1960



31.0393, 0.4061, 0.2438

# Triad

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



31.0393, 0.2898, 0.1960



31.0393, 0.4863, 0.4566



31.0393, 0.1512, 0.3077

# Complementary

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



31.0393, 0.2898, 0.1960



66.1117, 0.3227, 0.4828

# 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.



31.0393, 0.2091, 0.4387



31.0393, 0.2898, 0.1960



31.0393, 0.4016, 0.5242

# Square

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



31.0393, 0.2898, 0.1960



31.0393, 0.5295, 0.3797



31.0393, 0.3014, 0.5324



31.0393, 0.1338, 0.2184



# Rectangle

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



31.0393, 0.2898, 0.1960



31.0393, 0.4764, 0.2855



31.0393, 0.3014, 0.5324



31.0393, 0.1658, 0.3490

# Sweetspot

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



31.0406, 0.2898, 0.1960



76.1953, 0.3077, 0.2910



30.3659, 0.2233, 0.2099



15.6742, 0.3069, 0.2854



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.



31.0406, 0.2898, 0.1960



30.8011, 0.2831, 0.1716



34.2203, 0.3464, 0.2314



15.1117, 0.3098, 0.3055



8.5266, 0.2580, 0.1195



0.7145, 0.2671, 0.1245



# Inverse Universe

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



31.7952, 0.4202, 0.2958



32.1224, 0.4566, 0.2912



64.4773, 0.2917, 0.4539



15.1163, 0.3253, 0.3231



10.0239, 0.5921, 0.3035

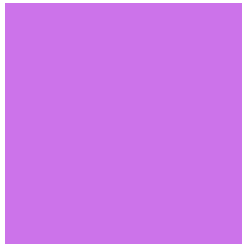


0.8022, 0.5530, 0.2820



# Previews

## White Background



This preview shows how the Yxy color 31.0393, 0.2898, 0.1960 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

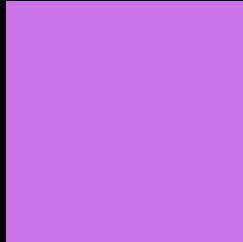
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.0393, 0.2898, 0.1960 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

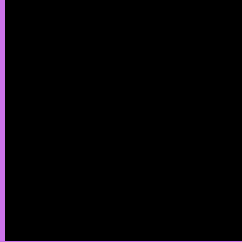
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.0393, 0.2898, 0.1960**

## Background



This preview shows how black text looks on a background with the Yxy color 31.0393, 0.2898, 0.1960.

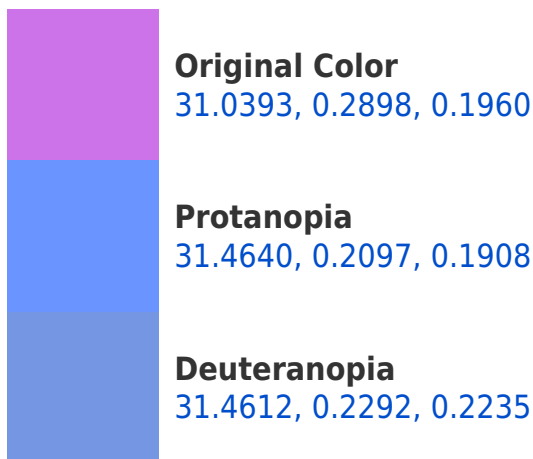


This preview shows how white text looks on a background with the Yxy color 31.0393, 0.2898, 0.1960.

# 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





## Tritanopia

30.7913, 0.3627, 0.3141

# Trichromacy



## Original Color

31.0393, 0.2898, 0.1960



## Protanomaly

30.0745, 0.2316, 0.1895



## Deuteranomaly

30.2797, 0.2469, 0.2090



## Tritanomaly

30.4288, 0.3343, 0.2634

# Monochromacy



## Original Color

31.0393, 0.2898, 0.1960



## Achromatopsia

32.7778, 0.3127, 0.3290



## Achromatomaly

31.1011, 0.3044, 0.2684

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.0393, 0.2898, 0.1960 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(204, 115, 234)` looks like.

```
.text, #text, p{  
    color:rgb(204, 115, 234)  
}
```

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(204, 115, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 115, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 31.0393, 0.2898, 0.1960 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(204, 115, 234) }
```

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

```
.border{ border-color:rgb(204, 115, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 115, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 115, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 115, 234);  
box-shadow:4px 4px 4px 4px rgb(204, 115,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.0393, 0.2898, 0.1960 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 115, 234) }
```

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

```
.background{ background-color: rgb(204,  
115, 234) }
```

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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