

# Converting Colors

$Y_{xy}(33.0103, 0.3218, 0.2434)$

Have a look what the booklet for  
Yxy(33.0103, 0.3218, 0.2434)  
contains.

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# Color

**Yxy(32.8498, 0.3219, 0.2433)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CD81C8
RGB	205, 129, 200
RGB Percent	80%, 51%, 78%
CMY	0.1959, 0.4942, 0.2156
CMYK	0.00, 0.37, 0.02, 0.20
HSL	304°, 43%, 65%
HSV	304°, 37%, 80%
XYZ	43.4622, 32.8498, 58.7057
YIQ	159.8180, 22.5050, 38.1930

# Conversions

## Conversions Part 2

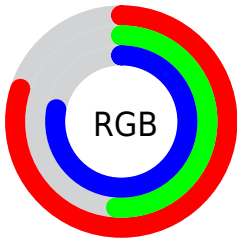
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	205, 129, 200
Decimal	13468104
CIE Lab	64.04, 40.21, -24.78
CIE LCh	64, 47.234, 328.354
Yxy	32.8498, 0.3219, 0.2433
Android (android.graphics.Color)	4291658184 (0xFFCD81C8)
YUV	159.8180, 19.8097, 39.6246
Hunter-Lab	57.3147, 35.0570, -20.6086

# Details

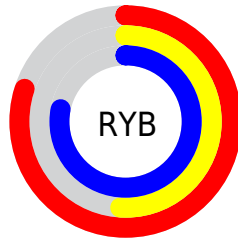
The Yxy color **32.8498, 0.3219, 0.2433** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **50.0685, 0.3044, 0.4330**, and the grayscale version is **34.9658, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.3470, 0.3160, 0.2585**, and **13.7726, 0.3223, 0.2193** is the 20% darker color. If you saturate the color by 10%, you get **27.9188, 0.3247, 0.2218**, and if you desaturate by 10%, it is **38.8680, 0.3192, 0.2662**.

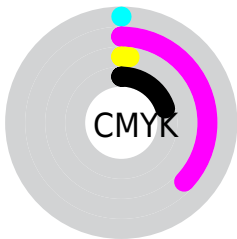
# Distribution



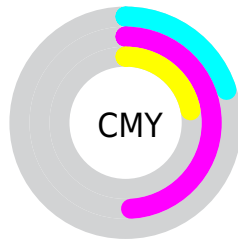
- Red (80%)
- Green (51%)
- Blue (78%)



- Red (80%)
- Yellow (51%)
- Blue (78%)



- Cyan (0%)
- Magenta (37%)
- Yellow (2%)
- Black (20%)




- Cyan (20%)
- Magenta (49%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.8498, 0.3219, 0.2433 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 32.8498, 0.3219, 0.2433 by changing the saturation by 10% instead.





 32.8498, 0.3219,  
0.2433


 32.8498, 0.3219,  
0.2433


314.9724, 0.3183,  
0.2853


 22.0114, 0.3225,  
0.2331


 64.1410, 0.3209,  
0.2583

 13.8653, 0.3230,  
0.2203


 85.3625, 0.3204,  
0.2641

 8.0270, 0.3233,  
0.2037


 110.8139, 0.3200,  
0.2689

 4.1122, 0.3231,  
0.1813

140.8796, 0.3196,  
0.2731

 1.7365, 0.3213,  
0.1502

175.9438, 0.3192,  
0.2768

 0.4472, 0.3192,  
0.0925

216.3911, 0.3189,

 0.0000, 0.2588,

0.2800

0.0000

262.6058, 0.3186,  
0.2828

0.0000, 0.0000,  
0.0000

32.8498, 0.3219,  
0.2433

32.8498, 0.3219,  
0.2433

27.9188, 0.3247,  
0.2218

38.8680, 0.3192,  
0.2662

24.0054, 0.3276,  
0.2028

46.0287, 0.3166,  
0.2897

21.0388, 0.3304,  
0.1870


54.3889, 0.3142,  
0.3129


18.9374, 0.3331,  
0.1752


64.0003, 0.3121,  
0.3354


17.6058, 0.3355,  
0.1677

74.9117, 0.3102,  
0.3568


 16.9155, 0.3377,  
0.1644

 87.1693, 0.3086,  
0.3767

 16.7688, 0.3383,  
0.1637

 89.1327, 0.3077,  
0.3782

 89.2002, 0.3070,  
0.3767

 89.2683, 0.3062,  
0.3752

# Harmonies

## Analogous

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



32.8498, 0.2525, 0.2199



32.8498, 0.3219, 0.2433



32.8498, 0.3970, 0.2843

# Triad

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



32.8498, 0.3219, 0.2433



32.8498, 0.4233, 0.4402



32.8498, 0.1926, 0.2978

# Complementary

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



32.8498, 0.3219, 0.2433



50.0685, 0.3044, 0.4330

# 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.



32.8498, 0.2291, 0.3748



32.8498, 0.3219, 0.2433



32.8498, 0.3616, 0.4655

# Square

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



32.8498, 0.3219, 0.2433



32.8498, 0.4576, 0.3910



32.8498, 0.2904, 0.4431



32.8498, 0.1851, 0.2436



# Rectangle

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



32.8498, 0.3219, 0.2433



32.8498, 0.4361, 0.3180



32.8498, 0.2904, 0.4431



32.8498, 0.2015, 0.3219

# Sweetspot

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



32.8513, 0.3219, 0.2433



83.2722, 0.3152, 0.3036



25.0740, 0.2486, 0.2186



17.4199, 0.3155, 0.3004



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.



32.8513, 0.3219, 0.2433



46.8311, 0.3243, 0.2250



31.3319, 0.3616, 0.2856



11.3905, 0.3148, 0.3076



10.4402, 0.3380, 0.1636



0.5425, 0.3344, 0.1616



# Inverse Universe

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



32.8513, 0.3219, 0.2433



46.8311, 0.3243, 0.2250



51.2804, 0.2814, 0.3776



11.3905, 0.3148, 0.3076



10.4402, 0.3380, 0.1636

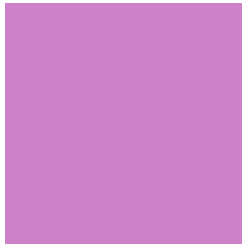


0.5425, 0.3344, 0.1616



# Previews

## White Background



This preview shows how the Yxy color 32.8498, 0.3219, 0.2433 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

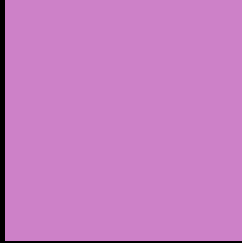
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.8498, 0.3219, 0.2433 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

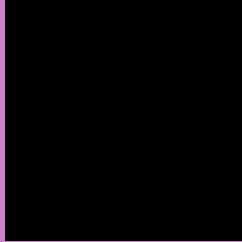
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.8498, 0.3219, 0.2433**

## Background



This preview shows how black text looks on a background with the Yxy color 32.8498, 0.3219, 0.2433.



This preview shows how white text looks on a background with the Yxy color 32.8498, 0.3219, 0.2433.

# 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

32.8498, 0.3219, 0.2433

### Protanopia

33.0787, 0.2475, 0.2394

### Deuteranopia

33.2520, 0.2736, 0.2681



## Tritanopia

32.8094, 0.3672, 0.3147

# Trichromacy



**Original Color**

32.8498, 0.3219, 0.2433

**Protanomaly**

32.2267, 0.2707, 0.2395

**Deuteranomaly**

32.5238, 0.2900, 0.2575

**Tritanomaly**

32.5726, 0.3504, 0.2867

# Monochromacy



**Original Color**

32.8498, 0.3219, 0.2433

**Achromatopsia**

35.1533, 0.3127, 0.3290

**Achromatomaly**

33.8201, 0.3154, 0.2931

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.8498, 0.3219, 0.2433 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(205, 129, 200)` looks like.

```
.text, #text, p{  
    color:rgb(205, 129, 200)  
}
```

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(205, 129, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 129, 200) }
```

## Border

The CSS property to change the border of an element to Yxy 32.8498, 0.3219, 0.2433 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(205, 129, 200) }
```

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

```
.border{ border-color:rgb(205, 129, 200) }
```

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

Here you see how a box with a 4 pixel rgb(205, 129, 200) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 129, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 129, 200);  
box-shadow:4px 4px 4px 4px rgb(205, 129,  
200) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.8498, 0.3219, 0.2433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 129, 200) }
```

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

```
.background{ background-color: rgb(205,  
129, 200) }
```

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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