

# Converting Colors

$Y_{xy}(40.4664, 0.3165, 0.2778)$

Have a look what the booklet for  
Yxy(40.4664, 0.3165, 0.2778)  
contains.

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# Color

**Yxy(40.4705, 0.3170, 0.2784)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C89DC6
RGB	200, 157, 198
RGB Percent	78%, 62%, 78%
CMY	0.2155, 0.3844, 0.2235
CMYK	0.00, 0.22, 0.01, 0.22
HSL	303°, 28%, 70%
HSV	303°, 22%, 78%
XYZ	46.0817, 40.4705, 58.8160
YIQ	174.5310, 12.4670, 21.8670

# Conversions

## Conversions Part 2

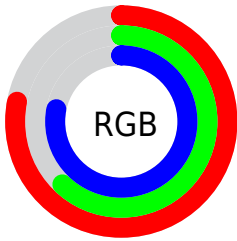
Format	Color
<a href="#">RYB</a>	<a href="#">200, 157, 198</a>
Decimal	<a href="#">13147590</a>
CIELab	<a href="#">69.80, 22.95, -14.95</a>
CIElCh	<a href="#">70, 27.391, 326.931</a>
Yxy	<a href="#">40.4705, 0.3170, 0.2784</a>
Android (android.graphics.Color)	<a href="#">4291337670 (0xFFC89DC6)</a>
YUV	<a href="#">174.5310, 11.5702, 22.3363</a>
Hunter-Lab	<a href="#">63.6164, 17.9710, -10.2845</a>

# Details

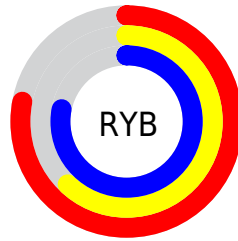
The Yxy color  $40.4705, 0.3170, 0.2784$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $51.0055, 0.3085, 0.3854$ , and the grayscale version is  $42.5523, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $75.5670, 0.3147, 0.2871$ , and  $18.2278, 0.3184, 0.2645$  is the 20% darker color. If you saturate the color by 10%, you get  $34.2054, 0.3192, 0.2547$ , and if you desaturate by 10%, it is  $47.8477, 0.3149, 0.3022$ .

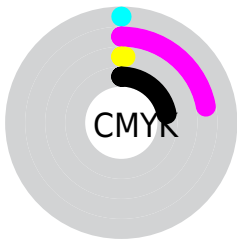
# Distribution



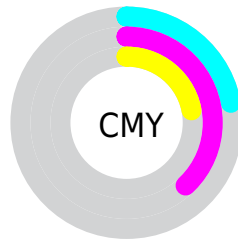
- Red (78%)
- Green (62%)
- Blue (78%)



- Red (78%)
- Yellow (62%)
- Blue (78%)



- Cyan (0%)
- Magenta (22%)
- Yellow (1%)
- Black (22%)




- Cyan (22%)
- Magenta (38%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.4705, 0.3170, 0.2784 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 40.4705, 0.3170, 0.2784 by changing the saturation by 10% instead.





 40.4705, 0.3170,  
0.2784


 40.4705, 0.3170,  
0.2784


348.1027, 0.3152,  
0.3033

 27.9056, 0.3173,  
0.2723


 75.8794, 0.3164,  
0.2873

 18.2545, 0.3177,  
0.2646


 99.4923, 0.3162,  
0.2907

 11.1329, 0.3180,  
0.2545


127.5565, 0.3160,  
0.2936

 6.1563, 0.3183,  
0.2408

160.4565, 0.3158,  
0.2961

 2.9403, 0.3182,  
0.2209

198.5768, 0.3157,  
0.2982

 1.1007, 0.3170,  
0.1899

242.3016, 0.3155,


 0.0000, 0.3455,


0.3001


0.0000

292.0155, 0.3154,  
0.3018


 0.0000, 0.0000,  
0.0000


 40.4705, 0.3170,  
0.2784

 40.4705, 0.3170,  
0.2784


 34.2054, 0.3192,  
0.2547


 47.8477, 0.3149,  
0.3022


 28.9932, 0.3215,  
0.2321


 56.3820, 0.3130,  
0.3255


 24.7773, 0.3239,  
0.2113


 66.1222, 0.3113,  
0.3478


 21.4937, 0.3261,  
0.1934


 77.1128, 0.3097,  
0.3688


 19.0708, 0.3283,  
0.1791

 88.1078, 0.3084,  
0.3863

 17.4268, 0.3302,  
0.1690


 88.1531, 0.3079,  
0.3852

 16.4640, 0.3319,  
0.1632

 88.1988, 0.3073,  
0.3841

 16.0296, 0.3332,  
0.1609

 88.2447, 0.3068,  
0.3830

 88.2909, 0.3063,  
0.3820

# Harmonies

## Analogous

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



40.4705, 0.2782, 0.2652



40.4705, 0.3170, 0.2784



40.4705, 0.3569, 0.3031

# Triad

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



40.4705, 0.3170, 0.2784



40.4705, 0.3770, 0.3919



40.4705, 0.2450, 0.3164

# Complementary

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



40.4705, 0.3170, 0.2784



51.0055, 0.3085, 0.3854

# 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.



40.4705, 0.2685, 0.3557



40.4705, 0.3170, 0.2784



40.4705, 0.3443, 0.4013

# Square

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



40.4705, 0.3170, 0.2784



40.4705, 0.3925, 0.3667



40.4705, 0.3045, 0.3883



40.4705, 0.2387, 0.2842



# Rectangle

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



40.4705, 0.3170, 0.2784



40.4705, 0.3778, 0.3237



40.4705, 0.3045, 0.3883



40.4705, 0.2510, 0.3293

# Sweetspot

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



40.4723, 0.3170, 0.2784



90.5770, 0.3138, 0.3150



35.5913, 0.2781, 0.2699



19.1775, 0.3140, 0.3135



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.



40.4723, 0.3170, 0.2784



64.5452, 0.3181, 0.2669



39.5721, 0.3362, 0.3035



10.8076, 0.3145, 0.3073



10.1894, 0.3330, 0.1608



0.4852, 0.3303, 0.1593



# Inverse Universe

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



40.4723, 0.3170, 0.2784



64.5452, 0.3181, 0.2669



51.7949, 0.2942, 0.3560



10.8076, 0.3145, 0.3073



10.1894, 0.3330, 0.1608



0.4852, 0.3303, 0.1593



# Previews

## White Background



This preview shows how the Yxy color 40.4705, 0.3170, 0.2784 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

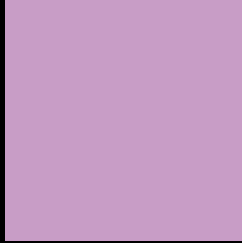
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.4705, 0.3170, 0.2784 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

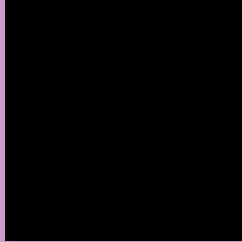
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.4705, 0.3170, 0.2784**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.4705, 0.3170, 0.2784.



This preview shows how white text looks on a background with the Yxy color 40.4705, 0.3170, 0.2784.

# 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

40.4705, 0.3170, 0.2784

### Protanopia

40.6187, 0.2786, 0.2798

### Deuteranopia

40.7369, 0.2959, 0.2908



## Tritanopia

40.4160, 0.3355, 0.3124

# Trichromacy



## Original Color

40.4705, 0.3170, 0.2784

## Protanomaly

40.4522, 0.2913, 0.2796

## Deuteranomaly

40.4160, 0.3030, 0.2852

## Tritanomaly

40.5663, 0.3283, 0.2999

# Monochromacy



## Original Color

40.4705, 0.3170, 0.2784

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

41.6145, 0.3145, 0.3093

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.4705, 0.3170, 0.2784 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(200, 157, 198)` looks like.

```
.text, #text, p{  
    color:rgb(200, 157, 198)  
}
```

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(200, 157, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 157, 198) }
```

## Border

The CSS property to change the border of an element to Yxy 40.4705, 0.3170, 0.2784 is called "border". The border property can be set on classes, ids or directly on the HTML element.

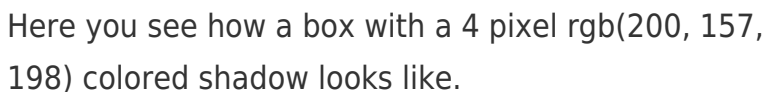
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(200, 157, 198) }
```

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

```
.border{ border-color:rgb(200, 157, 198) }
```

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



Here you see how a box with a 4 pixel `rgb(200, 157, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(200, 157, 198); -webkit-box-shadow:4px 4px 4px 4px rgb(200, 157, 198); box-shadow:4px 4px 4px 4px rgb(200, 157, 198) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.4705, 0.3170, 0.2784 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 157, 198) }
```

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

```
.background{ background-color: rgb(200,  
157, 198) }
```

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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