

# Converting Colors

$Y_{xy}(42.1917, 0.3035, 0.3042)$

Have a look what the booklet for  
Yxy(42.1917, 0.3035, 0.3042)  
contains.

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# Color

**Yxy(42.3085, 0.3033, 0.3040)**

# Conversions

Conversions Part 1	
Format	Color
Hex	B2ABBE
RGB	178, 171, 190
RGB Percent	70%, 67%, 75%
CMY	0.3021, 0.3294, 0.2549
CMYK	0.06, 0.10, 0.00, 0.25
HSL	262°, 13%, 71%
HSV	262°, 10%, 75%
XYZ	42.2111, 42.3085, 54.6531
YIQ	175.2590, -1.9270, 7.3930

# Conversions

## Conversions Part 2

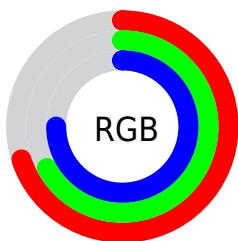
Format	Color
<a href="#">RYB</a>	<a href="#">178, 171, 190</a>
Decimal	<a href="#">11709374</a>
CIELab	<a href="#">71.08, 6.12, -8.80</a>
CIELCh	<a href="#">71, 10.719, 304.796</a>
Yxy	<a href="#">42.3085, 0.3033, 0.3040</a>
Android (android.graphics.Color)	<a href="#">4289899454</a> (0xFFB2ABBE)
YUV	<a href="#">175.2590, 7.2673, 2.4039</a>
Hunter-Lab	<a href="#">65.0450, 2.0092, -4.2861</a>

# Details

The Yxy color  $42.3085, 0.3033, 0.3040$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $49.8379, 0.3215, 0.3537$ , and the grayscale version is  $42.9720, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $78.5390, 0.3055, 0.3085$ , and  $19.3598, 0.2997, 0.2965$  is the 20% darker color. If you saturate the color by 10%, you get  $34.2784, 0.2924, 0.2766$ , and if you desaturate by 10%, it is  $51.4989, 0.3127, 0.3290$ .

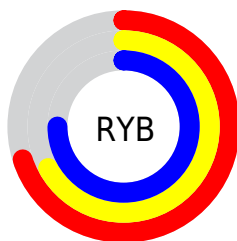
# Distribution



Red (70%)

Green (67%)

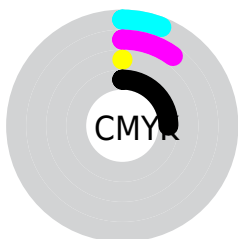
Blue (75%)



Red (70%)

Yellow (67%)

Blue (75%)

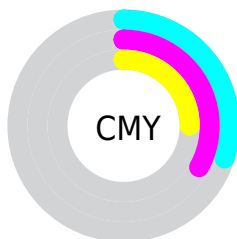


Cyan (6%)

Magenta (10%)

Yellow (0%)

Black (25%)



Cyan (30%)

Magenta (33%)


Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.3085, 0.3033, 0.3040 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 42.3085, 0.3033, 0.3040 by changing the saturation by 10% instead.




 42.3085, 0.3033,  
0.3040

 42.3085, 0.3033,  
0.3040


355.7602, 0.3081,  
0.3165

 29.3429, 0.3020,  
0.3009


 78.6663, 0.3051,  
0.3086

 19.3404, 0.3004,  
0.2968


102.8273, 0.3058,  
0.3103

 11.9165, 0.2982,  
0.2915


131.4890, 0.3063,  
0.3117

 6.6868, 0.2950,  
0.2839

165.0356, 0.3068,  
0.3130

 3.2670, 0.2901,  
0.2727

203.8517, 0.3072,  
0.3140

 1.2727, 0.2815,  
0.2541

248.3215, 0.3076,

 0.1199, 0.2332,

0.3150


0.1062


298.8296, 0.3079,  
0.3158


 0.0000, 0.0000,  
0.0000


 42.3085, 0.3033,  
0.3040


 42.3085, 0.3033,  
0.3040


 34.2784, 0.2924,  
0.2766


 51.4989, 0.3127,  
0.3290


 27.3563, 0.2799,  
0.2471

 61.8884, 0.3208,  
0.3516


 21.4936, 0.2660,  
0.2162

 73.5208, 0.3276,  
0.3717

 16.6360, 0.2509,  
0.1850

 86.4359, 0.3333,  
0.3895

 12.7245, 0.2351,  
0.1548

 93.4429, 0.3401,  
0.3954

■ 9.6935, 0.2191,  
0.1274

■ 95.5988, 0.3481,  
0.3936

■ 7.4685, 0.2040,  
0.1046

■ 96.4975, 0.3514,  
0.3929

■ 5.9624, 0.1905,  
0.0875

■ 5.0058, 0.1791,  
0.0760

# Harmonies

## Analogous

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



42.3085, 0.2905, 0.3035



42.3085, 0.3033, 0.3040



42.3085, 0.3189, 0.3108

# Triad

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



42.3085, 0.3033, 0.3040



42.3085, 0.3426, 0.3476



42.3085, 0.2925, 0.3356

# Complementary

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



42.3085, 0.3033, 0.3040



49.8379, 0.3215, 0.3537

# 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.



42.3085, 0.3060, 0.3483



42.3085, 0.3033, 0.3040



42.3085, 0.3351, 0.3551

# Square

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



42.3085, 0.3033, 0.3040



42.3085, 0.3419, 0.3356



42.3085, 0.3216, 0.3555



42.3085, 0.2844, 0.3213



# Rectangle

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



42.3085, 0.3033, 0.3040



42.3085, 0.3288, 0.3181



42.3085, 0.3216, 0.3555



42.3085, 0.2965, 0.3402

# Sweetspot

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



42.3103, 0.3033, 0.3040



88.0078, 0.3100, 0.3216



46.3894, 0.2975, 0.3202



19.0225, 0.3092, 0.3196



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



42.3103, 0.3033, 0.3040



73.2906, 0.3010, 0.2982



43.4325, 0.3113, 0.3046



9.3910, 0.3039, 0.3057



3.3692, 0.1804, 0.0767



0.1694, 0.2088, 0.0924



# Inverse Universe

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



43.4987, 0.3197, 0.3135



75.8925, 0.3214, 0.3100



48.7483, 0.3139, 0.3543



9.6353, 0.3192, 0.3146



8.2028, 0.4387, 0.2190



0.3335, 0.4036, 0.1997



# Previews

## White Background



This preview shows how the Yxy color 42.3085, 0.3033, 0.3040 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

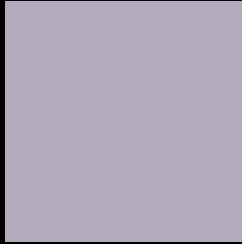
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.3085, 0.3033, 0.3040 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

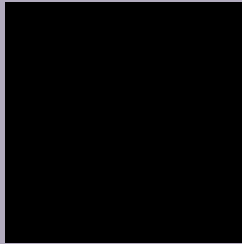
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

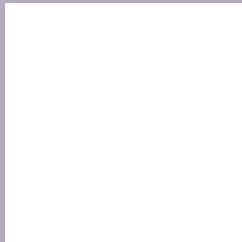
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.3085, 0.3033, 0.3040**

## Background



This preview shows how black text looks on a background with the Yxy color 42.3085, 0.3033, 0.3040.



This preview shows how white text looks on a background with the Yxy color 42.3085, 0.3033, 0.3040.

# 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

42.3085, 0.3033, 0.3040

### Protanopia

42.4194, 0.2974, 0.3050

### Deuteranopia

42.1609, 0.3078, 0.3017



## Tritanopia

42.3549, 0.3065, 0.3117

# Trichromacy



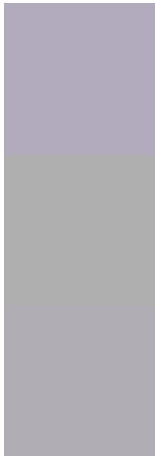
**Original Color**  
42.3085, 0.3033, 0.3040

**Protanomaly**  
42.2653, 0.2991, 0.3038

**Deuteranomaly**  
42.2909, 0.3060, 0.3029

**Tritanomaly**  
42.4400, 0.3048, 0.3091

# Monochromacy



**Original Color**  
42.3085, 0.3033, 0.3040

**Achromatopsia**  
42.8690, 0.3127, 0.3290

**Achromatomaly**  
42.7975, 0.3096, 0.3210

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.3085, 0.3033, 0.3040 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(178, 171, 190) looks like.

```
.text, #text, p{  
    color:rgb(178, 171, 190)  
}
```

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(178, 171, 190) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 171, 190) }
```

## Border

The CSS property to change the border of an element to Yxy 42.3085, 0.3033, 0.3040 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(178, 171, 190) }
```

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

```
.border{ border-color:rgb(178, 171, 190) }
```

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

Here you see how a box with a 4 pixel rgb(178, 171, 190) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 171, 190); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 171, 190);  
box-shadow:4px 4px 4px 4px rgb(178, 171,  
190) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.3085, 0.3033, 0.3040 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 171, 190) }
```

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

```
.background{ background-color: rgb(178,  
171, 190) }
```

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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