

# Converting Colors

$Y_{xy}(40.1991, 0.3029, 0.2918)$

Have a look what the booklet for  
Yxy(40.1991, 0.3029, 0.2918)  
contains.

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# Color

**Yxy(40.1045, 0.3027, 0.2910)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4A4C1
RGB	180, 164, 193
RGB Percent	71%, 64%, 76%
CMY	0.2943, 0.3568, 0.2431
CMYK	0.07, 0.15, 0.00, 0.24
HSL	273°, 19%, 70%
HSV	273°, 15%, 76%
XYZ	41.7169, 40.1045, 55.9947
YIQ	172.0900, 0.2270, 12.4110

# Conversions

## Conversions Part 2

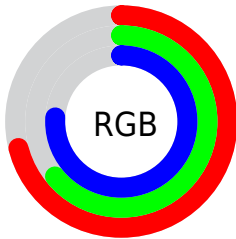
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 164, 193
Decimal	11838657
CIE Lab	69.54, 11.26, -12.75
CIE LCh	70, 17.005, 311.450
Yxy	40.1045, 0.3027, 0.2910
Android (android.graphics.Color)	4290028737 (0xFFB4A4C1)
YUV	172.0900, 10.3086, 6.9371
Hunter-Lab	63.3281, 6.7614, -8.0945

# Details

The Yxy color  $40.1045, 0.3027, 0.2910$  is a light color, and the websafe version is hex  $9999CC$ . A complement of this color would be  $50.1753, 0.3215, 0.3673$ , and the grayscale version is  $41.2485, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $75.3355, 0.3051, 0.2984$ , and  $17.9644, 0.2999, 0.2805$  is the 20% darker color. If you saturate the color by 10%, you get  $32.7042, 0.2946, 0.2635$ , and if you desaturate by 10%, it is  $48.6218, 0.3096, 0.3168$ .

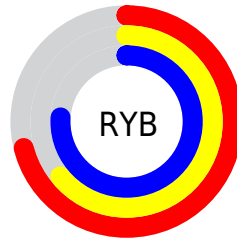
# Distribution



Red (71%)

Green (64%)

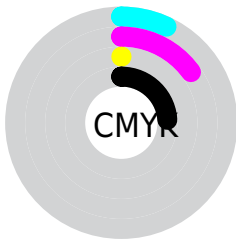
Blue (76%)



Red (71%)

Yellow (64%)

Blue (76%)

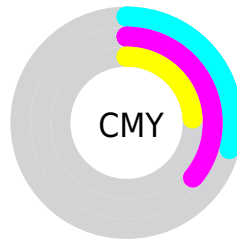


Cyan (7%)

Magenta (15%)

Yellow (0%)

Black (24%)



Cyan (29%)

Magenta (36%)


Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.1045, 0.3027, 0.2910 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 40.1045, 0.3027, 0.2910 by changing the saturation by 10% instead.





 40.1045, 0.3027,  
0.2910


 40.1045, 0.3027,  
0.2910

346.5638, 0.3080,  
0.3100

 27.6200, 0.3013,  
0.2863


 75.3226, 0.3047,  
0.2979

 18.0394, 0.2994,  
0.2802


 98.8251, 0.3054,  
0.3005

 10.9783, 0.2969,  
0.2721


126.7689, 0.3060,  
0.3027

 6.0522, 0.2931,  
0.2609

159.5387, 0.3065,  
0.3046

 2.8769, 0.2871,  
0.2442

197.5186, 0.3070,  
0.3062

 1.0678, 0.2763,  
0.2171

241.0932, 0.3074,

 0.0000, 0.2134,

0.3076

0.0000

290.6468, 0.3077,  
0.3089

0.0000, 0.0000,  
0.0000

40.1045, 0.3027,  
0.2910

40.1045, 0.3027,  
0.2910

32.7042, 0.2946,  
0.2635

48.6218, 0.3096,  
0.3168

26.3676, 0.2854,  
0.2349

58.2962, 0.3155,  
0.3406

21.0443, 0.2750,  
0.2060

69.1722, 0.3204,  
0.3623

16.6781, 0.2638,  
0.1778

81.2902, 0.3245,  
0.3819

13.2070, 0.2519,  
0.1519

91.1176, 0.3286,  
0.3943

10.5612, 0.2399,  
0.1294

92.5354, 0.3343,  
0.3931

8.6603, 0.2282,  
0.1117

94.0249, 0.3400,  
0.3919

7.4067, 0.2173,  
0.0992

95.5872, 0.3458,  
0.3907

6.9257, 0.2122,  
0.0942

96.6303, 0.3496,  
0.3900

# Harmonies

## Analogous

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



40.1045, 0.2809, 0.2875



40.1045, 0.3027, 0.2910



40.1045, 0.3281, 0.3036

# Triad

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



40.1045, 0.3027, 0.2910



40.1045, 0.3595, 0.3620



40.1045, 0.2765, 0.3342

# Complementary

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



40.1045, 0.3027, 0.2910



50.1753, 0.3215, 0.3673

# 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.



40.1045, 0.2964, 0.3566



40.1045, 0.3027, 0.2910



40.1045, 0.3444, 0.3725

# Square

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



40.1045, 0.3027, 0.2910



40.1045, 0.3616, 0.3436



40.1045, 0.3212, 0.3709



40.1045, 0.2662, 0.3112



# Rectangle

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



40.1045, 0.3027, 0.2910



40.1045, 0.3435, 0.3157



40.1045, 0.3212, 0.3709



40.1045, 0.2822, 0.3421

# Sweetspot

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



40.1062, 0.3027, 0.2910



86.9821, 0.3096, 0.3166



43.2127, 0.2894, 0.3075



18.4146, 0.3091, 0.3149



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.



40.1062, 0.3027, 0.2910



67.2869, 0.3002, 0.2822



41.6806, 0.3157, 0.2941



10.0149, 0.3068, 0.3058



4.6543, 0.2134, 0.0949



0.2416, 0.2368, 0.1078



# Inverse Universe

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



41.0712, 0.3285, 0.3122



69.3735, 0.3325, 0.3084



48.7686, 0.3098, 0.3666



10.1515, 0.3220, 0.3187



8.0121, 0.5147, 0.2609

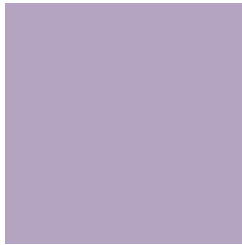


0.3601, 0.4606, 0.2311



# Previews

## White Background



This preview shows how the Yxy color 40.1045, 0.3027, 0.2910 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

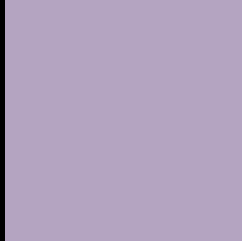
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.1045, 0.3027, 0.2910 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

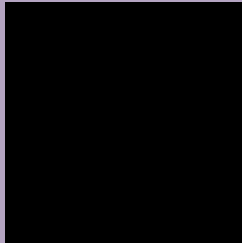
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.1045, 0.3027, 0.2910**

## Background



This preview shows how black text looks on a background with the Yxy color 40.1045, 0.3027, 0.2910.



This preview shows how white text looks on a background with the Yxy color 40.1045, 0.3027, 0.2910.

# 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

40.1045, 0.3027, 0.2910

### Protanopia

40.3608, 0.2876, 0.2926

### Deuteranopia

40.3528, 0.2992, 0.2933



## Tritanopia

39.9921, 0.3126, 0.3115

# Trichromacy



## Original Color

40.1045, 0.3027, 0.2910

## Protanomaly

40.1236, 0.2924, 0.2915

## Deuteranomaly

40.1076, 0.3001, 0.2920

## Tritanomaly

39.9547, 0.3093, 0.3037

# Monochromacy



## Original Color

40.1045, 0.3027, 0.2910

## Achromatopsia

41.2543, 0.3127, 0.3290

## Achromatomaly

40.7852, 0.3089, 0.3141

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.1045, 0.3027, 0.2910 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(180, 164, 193)` looks like.

```
.text, #text, p{  
    color:rgb(180, 164, 193)  
}
```

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(180, 164, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 164, 193) }
```

## Border

The CSS property to change the border of an element to Yxy 40.1045, 0.3027, 0.2910 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(180, 164, 193) }
```

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

```
.border{ border-color:rgb(180, 164, 193) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 164, 193)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 164, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 164, 193);  
box-shadow:4px 4px 4px 4px rgb(180, 164,  
193) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.1045, 0.3027, 0.2910 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 164, 193) }
```

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

```
.background{ background-color: rgb(180,  
164, 193) }
```

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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