

# Converting Colors

$Y_{xy}(48.5029, 0.2819, 0.2724)$

Have a look what the booklet for  
Yxy(48.5029, 0.2819, 0.2724)  
contains.

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# Color

**Yxy(48.5029, 0.2819, 0.2724)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B9B4E3
RGB	185, 180, 227
RGB Percent	73%, 71%, 89%
CMY	0.2744, 0.2941, 0.1100
CMYK	0.18, 0.21, 0.00, 0.11
HSL	246°, 46%, 80%
HSV	246°, 21%, 89%
XYZ	50.1944, 48.5029, 79.3603
YIQ	186.8530, -12.1070, 15.6770

# Conversions

## Conversions Part 2

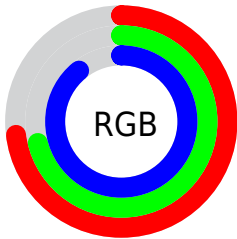
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	185, 180, 227
Decimal	12170467
CIE Lab	75.14, 11.30, -22.85
CIE LCh	75, 25.490, 296.316
Yxy	48.5029, 0.2819, 0.2724
Android (android.graphics.Color)	4290360547 (0xFFB9B4E3)
YUV	186.8530, 19.7925, -1.6251
Hunter-Lab	69.6440, 6.7730, -18.8109

# Details

The Yxy color **48.5029, 0.2819, 0.2724** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **73.7309, 0.3401, 0.3811**, and the grayscale version is **49.5009, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.9117, 0.3044, 0.3102**, and **22.9826, 0.2724, 0.2566** is the 20% darker color. If you saturate the color by 10%, you get **37.7353, 0.2641, 0.2405**, and if you desaturate by 10%, it is **61.1341, 0.2978, 0.3015**.

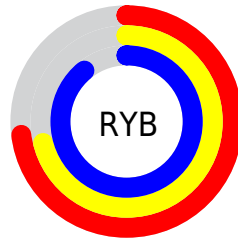
# Distribution



Red (73%)

Green (71%)

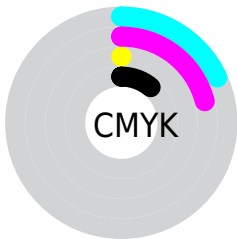
Blue (89%)



Red (73%)

Yellow (71%)

Blue (89%)

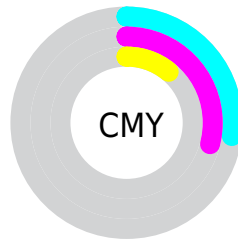


Cyan (18%)

Magenta (21%)

Yellow (0%)

Black (11%)



Cyan (27%)

Magenta (29%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5029, 0.2819, 0.2724 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 48.5029, 0.2819, 0.2724 by changing the saturation by 10% instead.



■ 48.5029, 0.2819,  
0.2724

■ 48.5029, 0.2819,  
0.2724

380.7821, 0.2973,  
0.2996

■ 34.2253, 0.2781,  
0.2660

■ 87.9527, 0.2875,  
0.2820

■ 23.0667, 0.2733,  
0.2579

113.8937, 0.2896,  
0.2857

■ 14.6428, 0.2669,  
0.2476

144.4913, 0.2913,  
0.2888

■ 8.5691, 0.2581,  
0.2338

180.1299, 0.2929,  
0.2916

■ 4.4612, 0.2455,  
0.2146

221.1939, 0.2942,  
0.2940

■ 1.9347, 0.2258,  
0.1864

268.0676, 0.2953,


■ 0.5691, 0.1934,


0.2961


0.1347


321.1356, 0.2964,  
0.2979

 0.0000, 0.0000,  
0.0000


 48.5029, 0.2819,  
0.2724


 48.5029, 0.2819,  
0.2724


 37.7353, 0.2641,  
0.2405


 61.1341, 0.2978,  
0.3015


 28.7372, 0.2447,  
0.2065


 75.7051, 0.3118,  
0.3273

 21.4155, 0.2244,  
0.1717

 92.2952, 0.3239,  
0.3501

 15.6659, 0.2044,  
0.1383

 98.3239, 0.3292,  
0.3562

 11.3725, 0.1860,  
0.1087

■ 8.4034, 0.1707,  
0.0852

■ 6.6022, 0.1595,  
0.0696

■ 5.7418, 0.1532,  
0.0617

# Harmonies

## Analogous

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



48.5029, 0.2574, 0.2742



48.5029, 0.2819, 0.2724



48.5029, 0.3159, 0.2839

# Triad

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



48.5029, 0.2819, 0.2724



48.5029, 0.3827, 0.3621



48.5029, 0.2745, 0.3530

# Complementary

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



48.5029, 0.2819, 0.2724



73.7309, 0.3401, 0.3811

# 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.



48.5029, 0.3065, 0.3809



48.5029, 0.2819, 0.2724



48.5029, 0.3697, 0.3841

# Square

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



48.5029, 0.2819, 0.2724



48.5029, 0.3758, 0.3337



48.5029, 0.3414, 0.3921



48.5029, 0.2533, 0.3190



# Rectangle

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



48.5029, 0.2819, 0.2724



48.5029, 0.3397, 0.2975



48.5029, 0.3414, 0.3921



48.5029, 0.2843, 0.3636

# Sweetspot

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



48.5049, 0.2819, 0.2724



88.1241, 0.3046, 0.3139



67.6306, 0.2816, 0.3234



18.5977, 0.3037, 0.3122



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.



48.5049, 0.2819, 0.2724



56.6069, 0.2741, 0.2585



51.6224, 0.2999, 0.2753



13.9606, 0.2997, 0.3048



3.3741, 0.1538, 0.0621



0.2743, 0.1628, 0.0671



# Inverse Universe

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



54.2378, 0.3190, 0.2829



65.4188, 0.3206, 0.2728



70.3247, 0.3232, 0.3840



14.5872, 0.3154, 0.3083



12.0408, 0.3498, 0.1701

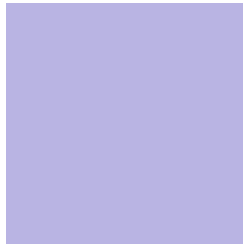


0.8974, 0.3450, 0.1674



# Previews

## White Background



This preview shows how the Yxy color 48.5029, 0.2819, 0.2724 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

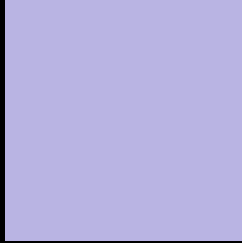
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5029, 0.2819, 0.2724 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

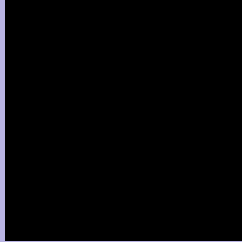
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.5029, 0.2819, 0.2724**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.5029, 0.2819, 0.2724.



This preview shows how white text looks on a background with the Yxy color 48.5029, 0.2819, 0.2724.

# 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

48.5029, 0.2819, 0.2724

### Protanopia

48.5228, 0.2727, 0.2726

### Deuteranopia

48.5389, 0.2797, 0.2732



## Tritanopia

48.5714, 0.2973, 0.3099

# Trichromacy



## Original Color

48.5029, 0.2819, 0.2724

## Protanomaly

48.5223, 0.2761, 0.2729

## Deuteranomaly

48.6611, 0.2804, 0.2734

## Tritanomaly

48.4652, 0.2916, 0.2953

# Monochromacy



## Original Color

48.5029, 0.2819, 0.2724

## Achromatopsia

49.6933, 0.3127, 0.3290

## Achromatomaly

48.9844, 0.3006, 0.3065

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.5029, 0.2819, 0.2724 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(185, 180, 227)` looks like.

```
.text, #text, p{  
    color:rgb(185, 180, 227)  
}
```

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(185, 180, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 180, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5029, 0.2819, 0.2724 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(185, 180, 227) }
```

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

```
.border{ border-color:rgb(185, 180, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 180, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 180, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 180, 227);  
box-shadow:4px 4px 4px 4px rgb(185, 180,  
227) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5029, 0.2819, 0.2724 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 180, 227) }
```

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

```
.background{ background-color: rgb(185,  
180, 227) }
```

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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