

# Converting Colors

$Y_{xy}(49.4995, 0.2634, 0.2418)$

Have a look what the booklet for  
Yxy(49.4995, 0.2634, 0.2418)  
contains.

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# Color

**Yxy(49.6505, 0.2632, 0.2423)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B8B3FF
RGB	184, 179, 255
RGB Percent	72%, 70%, 100%
CMY	0.2784, 0.2980, 0.0001
CMYK	0.28, 0.30, 0.00, 0.00
HSL	244°, 100%, 85%
HSV	244°, 30%, 100%
XYZ	53.9332, 49.6505, 101.3296
YIQ	189.1590, -21.4160, 24.6960

# Conversions

## Conversions Part 2

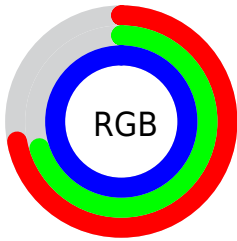
<b>Format</b>	<b>Color</b>
<b>RYB</b>	184, 179, 255
Decimal	12104703
CIELab	75.85, 18.02, -36.89
CIELCh	76, 41.061, 296.034
Yxy	49.6505, 0.2632, 0.2423
Android (android.graphics.Color)	4290294783 (0xFFB8B3FF)
YUV	189.1590, 32.4596, -4.5244
Hunter-Lab	70.4631, 13.3153, -35.9379

# Details

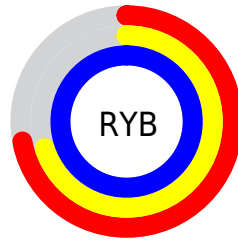
The Yxy color  $49.6505, 0.2632, 0.2423$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $95.0836, 0.3545, 0.4046$ , and the grayscale version is  $50.8052, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $85.3374, 0.3044, 0.3092$ , and  $23.6661, 0.2497, 0.2213$  is the 20% darker color. If you saturate the color by 10%, you get  $37.6603, 0.2431, 0.2078$ , and if you desaturate by 10%, it is  $64.0297, 0.2818, 0.2745$ .

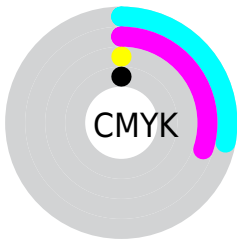
# Distribution



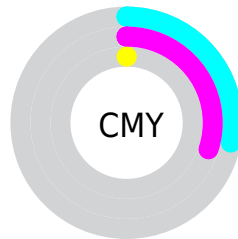
- Red (72%)
- Green (70%)
- Blue (100%)



- Red (72%)
- Yellow (70%)
- Blue (100%)



- Cyan (28%)
- Magenta (30%)
- Yellow (0%)
- Black (0%)




- Cyan (28%)
- Magenta (30%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6505, 0.2632, 0.2423 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 49.6505, 0.2632, 0.2423 by changing the saturation by 10% instead.





 49.6505, 0.2632,  
0.2423

 49.6505, 0.2632,  
0.2423


385.2976, 0.2876,  
0.2827

 35.1358, 0.2573,  
0.2331

 89.6568, 0.2719,  
0.2563

 23.7675, 0.2499,  
0.2219


115.9172, 0.2753,  
0.2617

 15.1612, 0.2404,  
0.2078


146.8616, 0.2781,  
0.2664

 8.9326, 0.2276,  
0.1898

182.8744, 0.2805,  
0.2705

 4.6973, 0.2100,  
0.1660

224.3400, 0.2826,  
0.2741

 2.0708, 0.1844,  
0.1340

271.6428, 0.2845,

 0.6481, 0.1459,

0.2773

0.0880

325.1672, 0.2862,  
0.2801

0.0000, 0.0014,  
0.0000

0.0000, 0.0000,  
0.0000

49.6505, 0.2632,  
0.2423

49.6505, 0.2632,  
0.2423

37.6603, 0.2431,  
0.2078

64.0297, 0.2818,  
0.2745

27.9240, 0.2221,  
0.1724

80.9113, 0.2984,  
0.3037

20.3023, 0.2016,  
0.1383

99.9986, 0.3127,  
0.3290

14.6380, 0.1829,  
0.1080

■ 10.7516, 0.1678,  
0.0842

■ 8.4309, 0.1572,  
0.0686

■ 7.3513, 0.1515,  
0.0609

■ 7.3354, 0.1515,  
0.0608

# Harmonies

## Analogous

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



49.6505, 0.2268, 0.2438



49.6505, 0.2632, 0.2423



49.6505, 0.3161, 0.2597

# Triad

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



49.6505, 0.2632, 0.2423



49.6505, 0.4244, 0.3771



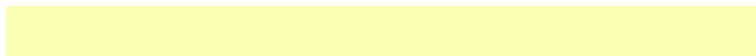
49.6505, 0.2522, 0.3682

# Complementary

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



49.6505, 0.2632, 0.2423



95.0836, 0.3545, 0.4046

# 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.



49.6505, 0.3015, 0.4155



49.6505, 0.2632, 0.2423



49.6505, 0.4021, 0.4141

# Square

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



49.6505, 0.2632, 0.2423



49.6505, 0.4140, 0.3334



49.6505, 0.3566, 0.4314



49.6505, 0.2206, 0.3112



# Rectangle

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



49.6505, 0.2632, 0.2423



49.6505, 0.3546, 0.2798



49.6505, 0.3566, 0.4314



49.6505, 0.2671, 0.3863

# Sweetspot

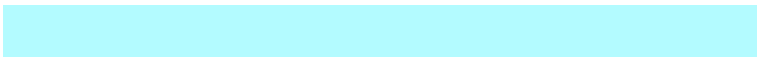
The Sweet Spot groups the original color and five complimentary colors.



49.6524, 0.2632, 0.2423



82.3789, 0.2996, 0.3059



85.9103, 0.2691, 0.3248



17.0659, 0.2974, 0.3019



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.



49.6524, 0.2632, 0.2423



41.9456, 0.2508, 0.2211



54.8021, 0.2899, 0.2485



17.4347, 0.2989, 0.3045



3.8548, 0.1520, 0.0611



0.3943, 0.1565, 0.0636



# Inverse Universe

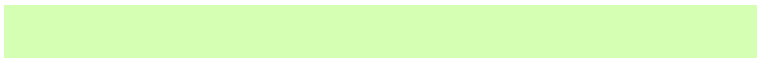
The Inverse Universe completely reimagines the original color for something new.



60.4013, 0.3200, 0.2590



54.3633, 0.3217, 0.2447



88.9367, 0.3299, 0.4110



18.2786, 0.3148, 0.3071



14.3511, 0.3381, 0.1636

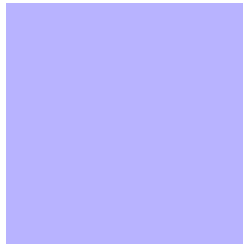


1.4033, 0.3360, 0.1624



# Previews

## White Background



This preview shows how the Yxy color 49.6505, 0.2632, 0.2423 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

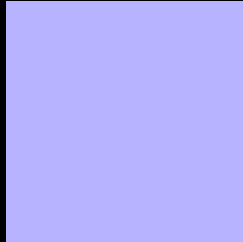
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.6505, 0.2632, 0.2423 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

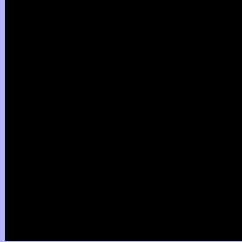
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.6505, 0.2632, 0.2423**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6505, 0.2632, 0.2423.

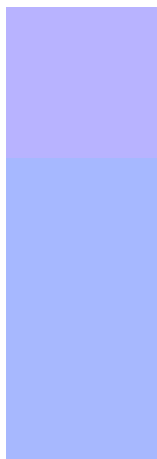


This preview shows how white text looks on a background with the Yxy color 49.6505, 0.2632, 0.2423.

# 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

49.6505, 0.2632, 0.2423

### Protanopia

49.6080, 0.2520, 0.2456

### Deuteranopia

49.6522, 0.2532, 0.2467



## Tritanopia

49.7535, 0.2899, 0.3098

# Trichromacy



**Original Color**

49.6505, 0.2632, 0.2423

**Protanomaly**

49.5601, 0.2562, 0.2441

**Deuteranomaly**

49.4959, 0.2568, 0.2451

**Tritanomaly**

49.4906, 0.2797, 0.2823

# Monochromacy



**Original Color**

49.6505, 0.2632, 0.2423

**Achromatopsia**

50.8881, 0.3127, 0.3290

**Achromatomaly**

50.0668, 0.2934, 0.2947

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6505, 0.2632, 0.2423 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(184, 179, 255)` looks like.

```
.text, #text, p{  
    color:rgb(184, 179, 255)  
}
```

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(184, 179, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 179, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6505, 0.2632, 0.2423 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(184, 179, 255) }
```

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

```
.border{ border-color:rgb(184, 179, 255) }
```

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

Here you see how a box with a 4 pixel rgb(184, 179, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 179, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 179, 255);  
box-shadow:4px 4px 4px 4px rgb(184, 179,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6505, 0.2632, 0.2423 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 179, 255) }
```

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

```
.background{ background-color: rgb(184,  
179, 255) }
```

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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