

# Converting Colors

$Y_{xy}(49.3938, 0.3122, 0.3407)$

Have a look what the booklet for  
Yxy(49.3938, 0.3122, 0.3407)  
contains.

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# Color

**Yxy(49.3938, 0.3122, 0.3407)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4BDB4
RGB	180, 189, 180
RGB Percent	71%, 74%, 71%
CMY	0.2940, 0.2588, 0.2942
CMYK	0.05, 0.00, 0.05, 0.26
HSL	120°, 6%, 72%
HSV	120°, 5%, 74%
XYZ	45.2619, 49.3938, 50.3217
YIQ	185.2830, -2.4750, -4.7070

# Conversions

## Conversions Part 2

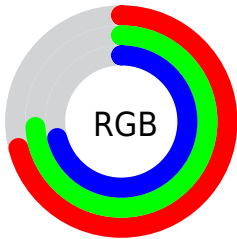
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 189, 189
Decimal	11845044
CIE Lab	75.70, -4.79, 3.47
CIE LCh	76, 5.910, 144.099
Yxy	49.3938, 0.3122, 0.3407
Android (android.graphics.Color)	4290035124 (0xFFB4BDB4)
YUV	185.2830, -2.6045, -4.6332
Hunter-Lab	70.2807, -8.0343, 6.7443

# Details

The Yxy color **49.3938, 0.3122, 0.3407** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **47.1255, 0.3132, 0.3176**, and the grayscale version is **48.7002, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.1938, 0.3123, 0.3381**, and **23.6527, 0.3120, 0.3450** is the 20% darker color. If you saturate the color by 10%, you get **46.5699, 0.3110, 0.3678**, and if you desaturate by 10%, it is **52.6336, 0.3132, 0.3170**.

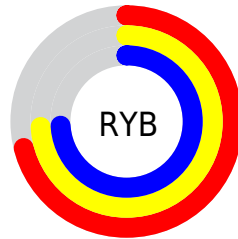
# Distribution



Red (71%)

Green (74%)

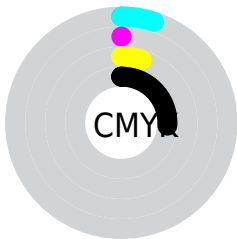
Blue (71%)



Red (71%)

Yellow (74%)

Blue (74%)

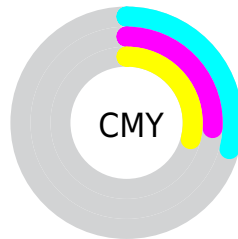


Cyan (5%)

Magenta (0%)

Yellow (5%)

Black (26%)



Cyan (29%)

Magenta (26%)


Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.3938, 0.3122, 0.3407 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 49.3938, 0.3122, 0.3407 by changing the saturation by 10% instead.





 49.3938, 0.3122,  
0.3407

 49.3938, 0.3122,  
0.3407


384.2906, 0.3125,  
0.3349

 34.9320, 0.3121,  
0.3422


 89.2761, 0.3123,  
0.3386

 23.6105, 0.3120,  
0.3440


115.4653, 0.3123,  
0.3378

 15.0449, 0.3119,  
0.3465


146.3324, 0.3124,  
0.3371

 8.8509, 0.3117,  
0.3500

182.2618, 0.3124,  
0.3365

 4.6441, 0.3113,  
0.3552

223.6380, 0.3124,  
0.3360

 2.0400, 0.3107,  
0.3638

270.8452, 0.3124,


 0.6305, 0.3098,

0.3356


0.4049


324.2679, 0.3125,  
0.3352


 0.0000, 0.0000,  
0.0000


 49.3938, 0.3122,  
0.3407


 49.3938, 0.3122,  
0.3407


 46.5699, 0.3110,  
0.3678


 52.6336, 0.3132,  
0.3170

 44.1390, 0.3096,  
0.3982


 56.2984, 0.3141,  
0.2966

 42.0856, 0.3081,  
0.4316

 60.4051, 0.3149,  
0.2790

 40.3908, 0.3065,  
0.4669

 64.8743, 0.3157,  
0.2644

 39.0341, 0.3049,  
0.5023

■ 37.9927, 0.3033,  
0.5354

■ 37.2413, 0.3019,  
0.5634

■ 36.7506, 0.3009,  
0.5840

■ 36.4850, 0.3003,  
0.5959

# Harmonies

## Analogous

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



49.3938, 0.3202, 0.3431



49.3938, 0.3122, 0.3407



49.3938, 0.3044, 0.3350

# Triad

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



49.3938, 0.3122, 0.3407



49.3938, 0.2993, 0.3164



49.3938, 0.3267, 0.3301

# Complementary

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



49.3938, 0.3122, 0.3407



47.1255, 0.3132, 0.3176

# 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.



49.3938, 0.3210, 0.3231



49.3938, 0.3122, 0.3407



49.3938, 0.3052, 0.3152

# Square

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



49.3938, 0.3122, 0.3407



49.3938, 0.2970, 0.3209



49.3938, 0.3131, 0.3177



49.3938, 0.3287, 0.3369



# Rectangle

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



49.3938, 0.3122, 0.3407



49.3938, 0.3004, 0.3302



49.3938, 0.3131, 0.3177



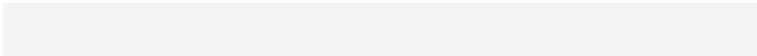
49.3938, 0.3252, 0.3277

# Sweetspot

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



49.3959, 0.3122, 0.3407



90.5574, 0.3126, 0.3314



50.4432, 0.3197, 0.3403



19.4804, 0.3126, 0.3313



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

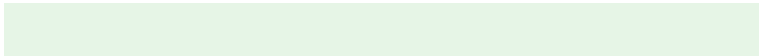


# Same Dimension

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



49.3959, 0.3122, 0.3407



87.7557, 0.3120, 0.3441



49.5714, 0.3089, 0.3350



10.8319, 0.3120, 0.3453



24.4924, 0.3001, 0.5999



0.9601, 0.3006, 0.5996



# Inverse Universe

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



47.1255, 0.3132, 0.3176



82.6012, 0.3134, 0.3143



46.9443, 0.3167, 0.3231



10.1489, 0.3134, 0.3132



9.6803, 0.3198, 0.1536



0.3799, 0.3201, 0.1537



# Previews

## White Background



This preview shows how the Yxy color 49.3938, 0.3122, 0.3407 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

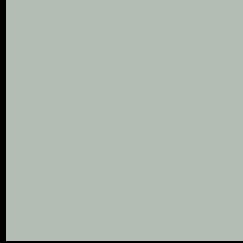
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.3938, 0.3122, 0.3407 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

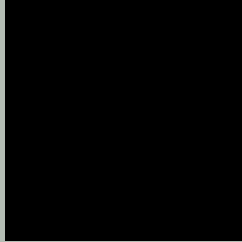
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

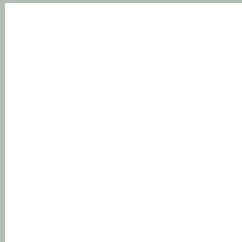
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.3938, 0.3122, 0.3407**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.3938, 0.3122, 0.3407.



This preview shows how white text looks on a background with the Yxy color 49.3938, 0.3122, 0.3407.

# 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

49.3938, 0.3122, 0.3407

### Protanopia

49.5386, 0.3241, 0.3392

### Deuteranopia

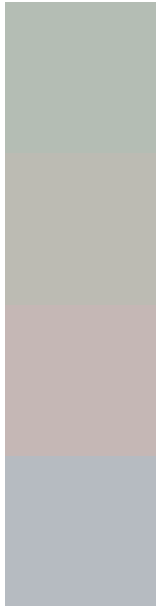
49.1417, 0.3338, 0.3266



## Tritanopia

49.4021, 0.2990, 0.3101

# Trichromacy



## Original Color

49.3938, 0.3122, 0.3407

## Protanomaly

49.4867, 0.3198, 0.3392

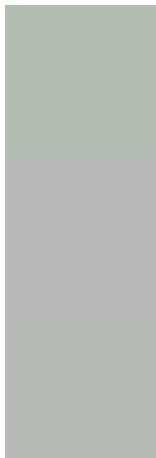
## Deuteranomaly

49.0735, 0.3263, 0.3315

## Tritanomaly

49.3360, 0.3041, 0.3213

# Monochromacy



## Original Color

49.3938, 0.3122, 0.3407

## Achromatopsia

48.5150, 0.3127, 0.3290

## Achromatomaly

48.6040, 0.3125, 0.3329

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.3938, 0.3122, 0.3407 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, 189, 180)` looks like.

```
.text, #text, p{  
    color:rgb(180, 189, 180)  
}
```

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, 189, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 189, 180) }
```

## Border

The CSS property to change the border of an element to Yxy 49.3938, 0.3122, 0.3407 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, 189, 180) }
```

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

```
.border{ border-color:rgb(180, 189, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 189, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 189, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 189, 180);  
box-shadow:4px 4px 4px 4px rgb(180, 189,  
180) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.3938, 0.3122, 0.3407 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 189, 180) }
```

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

```
.background{ background-color: rgb(180,  
189, 180) }
```

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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