

# Converting Colors

$Y_{xy}(49.8872, 0.3191, 0.3821)$

Have a look what the booklet for  
Yxy(49.8872, 0.3191, 0.3821)  
contains.

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# Color

**Yxy(49.6460, 0.3190, 0.3820)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A7C39C
RGB	167, 195, 156
RGB Percent	65%, 76%, 61%
CMY	0.3450, 0.2353, 0.3881
CMYK	0.14, 0.00, 0.20, 0.24
HSL	103°, 25%, 69%
HSV	103°, 20%, 76%
XYZ	41.4583, 49.6460, 38.8590
YIQ	182.1820, -4.1690, -18.0650

# Conversions

## Conversions Part 2

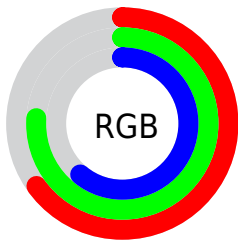
Format	Color
R <sub>YB</sub>	156, 195, 184
Decimal	10994588
CIE Lab	75.85, -16.72, 16.50
CIE LCh	76, 23.489, 135.376
Yxy	49.6460, 0.3190, 0.3820
Android (android.graphics.Color)	4289184668 (0xFFA7C39C)
YUV	182.1820, -12.9077, -13.3146
Hunter-Lab	70.4599, -18.2762, 16.6232

# Details

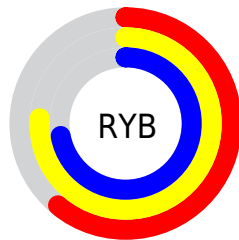
The Yxy color **49.6460, 0.3190, 0.3820** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **37.9129, 0.3048, 0.2784**, and the grayscale version is **46.9613, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.8536, 0.3176, 0.3721**, and **23.7145, 0.3202, 0.3966** is the 20% darker color. If you saturate the color by 10%, you get **47.5968, 0.3217, 0.4123**, and if you desaturate by 10%, it is **51.9704, 0.3159, 0.3541**.

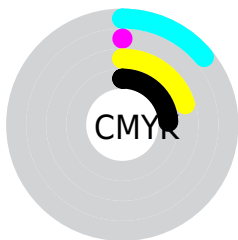
# Distribution



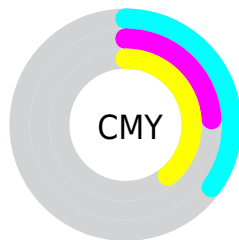
- Red (65%)
- Green (76%)
- Blue (61%)



- Red (61%)
- Yellow (76%)
- Blue (72%)



- Cyan (14%)
- Magenta (0%)
- Yellow (20%)
- Black (24%)




- Cyan (35%)
- Magenta (24%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6460, 0.3190, 0.3820 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 49.6460, 0.3190, 0.3820 by changing the saturation by 10% instead.



 49.6460, 0.3190,  
0.3820

 49.6460, 0.3190,  
0.3820


385.2800, 0.3163,  
0.3550

 35.1322, 0.3195,  
0.3889


 89.6502, 0.3181,  
0.3721

 23.7647, 0.3201,  
0.3978


 115.9093, 0.3178,  
0.3684

 15.1592, 0.3207,  
0.4098

146.8523, 0.3174,  
0.3653

 8.9312, 0.3213,  
0.4268

182.8637, 0.3172,  
0.3626

 4.6963, 0.3213,  
0.4526

224.3277, 0.3169,  
0.3603

 2.0702, 0.3204,  
0.4976

271.6289, 0.3167,

 0.6478, 0.2427,

0.3583

0.7573

325.1515, 0.3165,  
0.3566

0.0000, 0.0000,  
0.0000

49.6460, 0.3190,  
0.3820

49.6460, 0.3190,  
0.3820

47.5968, 0.3217,  
0.4123

51.9704, 0.3159,  
0.3541

45.8062, 0.3238,  
0.4443

54.5733, 0.3127,  
0.3290

44.2653, 0.3250,  
0.4769

57.4660, 0.3094,  
0.3065

42.9624, 0.3250,  
0.5086

60.6573, 0.3062,  
0.2867

41.8845, 0.3237,  
0.5374

64.1557, 0.3031,  
0.2692

■ 41.0176, 0.3210,  
0.5613

■ 66.7536, 0.3125,  
0.2697

■ 40.3456, 0.3170,  
0.5788

■ 67.5082, 0.3155,  
0.2703

■ 39.8433, 0.3124,  
0.5901

■ 39.8428, 0.3124,  
0.5901

# Harmonies

## Analogous

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



49.6460, 0.3497, 0.3859



49.6460, 0.3190, 0.3820



49.6460, 0.2877, 0.3614

# Triad

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



49.6460, 0.3190, 0.3820



49.6460, 0.2569, 0.2828



49.6460, 0.3636, 0.3238

# Complementary

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



49.6460, 0.3190, 0.3820



37.9129, 0.3048, 0.2784

# 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.



49.6460, 0.3365, 0.2994



49.6460, 0.3190, 0.3820



49.6460, 0.2750, 0.2761

# Square

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



49.6460, 0.3190, 0.3820



49.6460, 0.2529, 0.3023



49.6460, 0.3038, 0.2823



49.6460, 0.3765, 0.3505



# Rectangle

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



49.6460, 0.3190, 0.3820



49.6460, 0.2705, 0.3417



49.6460, 0.3038, 0.2823



49.6460, 0.3558, 0.3151

# Sweetspot

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



49.6481, 0.3190, 0.3820



94.8392, 0.3147, 0.3440



48.2640, 0.3450, 0.3649



20.7018, 0.3149, 0.3457



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

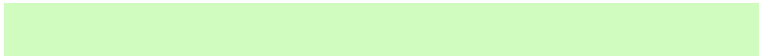


# Same Dimension

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



49.6481, 0.3190, 0.3820



87.2553, 0.3202, 0.3950



48.7955, 0.3041, 0.3713



11.3935, 0.3157, 0.3525



25.9341, 0.3133, 0.5895



1.1565, 0.3310, 0.5754



# Inverse Universe

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



37.9129, 0.3048, 0.2784



62.4148, 0.3027, 0.2667



38.9545, 0.3226, 0.2901



10.0999, 0.3094, 0.3060



6.2241, 0.2512, 0.1157



0.3022, 0.2674, 0.1247



# Previews

## White Background



This preview shows how the Yxy color 49.6460, 0.3190, 0.3820 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 49.6460, 0.3190, 0.3820 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

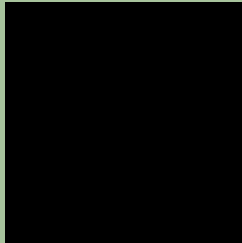
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.6460, 0.3190, 0.3820**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6460, 0.3190, 0.3820.



This preview shows how white text looks on a background with the Yxy color 49.6460, 0.3190, 0.3820.

# 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

49.6460, 0.3190, 0.3820

### Protanopia

49.3906, 0.3505, 0.3722

### Deuteranopia

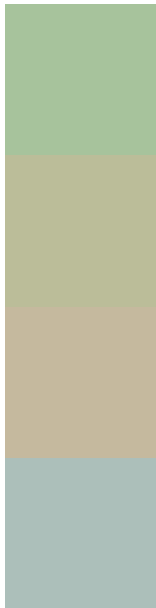
49.4419, 0.3608, 0.3546



## Tritanopia

49.8209, 0.2914, 0.3111

# Trichromacy



**Original Color**

49.6460, 0.3190, 0.3820

**Protanomaly**

49.2599, 0.3392, 0.3760

**Deuteranomaly**

49.0369, 0.3449, 0.3634

**Tritanomaly**

49.5774, 0.3012, 0.3355

# Monochromacy



**Original Color**

49.6460, 0.3190, 0.3820

**Achromatopsia**

46.7784, 0.3127, 0.3290

**Achromatomaly**

47.9049, 0.3152, 0.3475

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6460, 0.3190, 0.3820 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(167, 195, 156)` looks like.

```
.text, #text, p{  
  color:rgb(167, 195, 156)  
}
```

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(167, 195, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 195, 156) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6460, 0.3190, 0.3820 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(167, 195, 156) }
```

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

```
.border{ border-color:rgb(167, 195, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(167, 195, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 195, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 195, 156);  
box-shadow:4px 4px 4px 4px rgb(167, 195,  
156) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6460, 0.3190, 0.3820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 195, 156) }
```

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

```
.background{ background-color: rgb(167,  
195, 156) }
```

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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