

# Converting Colors

$Y_{xy}(48.8723, 0.3529, 0.3955)$

Have a look what the booklet for  
Yxy(48.8723, 0.3529, 0.3955)  
contains.

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# Color

**Yxy(49.0490, 0.3529, 0.3955)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDBD8A
RGB	189, 189, 138
RGB Percent	74%, 74%, 54%
CMY	0.2589, 0.2588, 0.4588
CMYK	0.00, 0.00, 0.27, 0.26
HSL	60°, 28%, 64%
HSV	60°, 27%, 74%
XYZ	43.7658, 49.0490, 31.2029
YIQ	183.1860, 16.3710, -15.8610

# Conversions

## Conversions Part 2

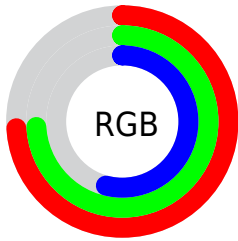
Format	Color
<a href="#">RYB</a>	<a href="#">138, 189, 138</a>
Decimal	<a href="#">12434826</a>
CIELab	<a href="#">75.48, -8.22, 25.87</a>
CIElCh	<a href="#">75, 27.142, 107.620</a>
Yxy	<a href="#">49.0490, 0.3529, 0.3955</a>
Android (android.graphics.Color)	<a href="#">4290624906 (0xFFBDBD8A)</a>
YUV	<a href="#">183.1860, -22.2767, 5.0989</a>
Hunter-Lab	<a href="#">70.0350, -11.0141, 22.6089</a>

# Details

The Yxy color  $49.0490, 0.3529, 0.3955$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $27.2565, 0.2665, 0.2526$ , and the grayscale version is  $47.5780, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $88.7034, 0.3461, 0.3829$ , and  $23.4638, 0.3626, 0.4138$  is the 20% darker color. If you saturate the color by 10%, you get  $48.5486, 0.3675, 0.4197$ , and if you desaturate by 10%, it is  $49.6491, 0.3379, 0.3706$ .

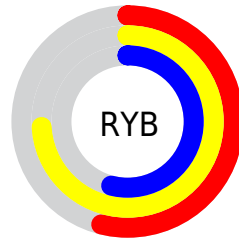
# Distribution



Red (74%)

Green (74%)

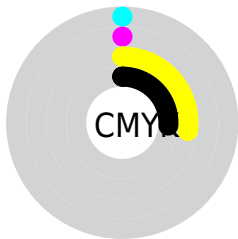
Blue (54%)



Red (54%)

Yellow (74%)

Blue (54%)

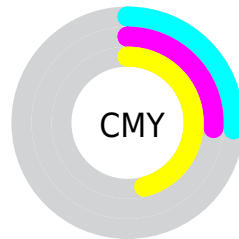


Cyan (0%)

Magenta (0%)

Yellow (27%)

Black (26%)



Cyan (26%)

Magenta (26%)


Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.0490, 0.3529, 0.3955 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 49.0490, 0.3529, 0.3955 by changing the saturation by 10% instead.




 49.0490, 0.3529,  
0.3955


 49.0490, 0.3529,  
0.3955


382.9352, 0.3335,  
0.3621

 34.6584, 0.3575,  
0.4038


 88.7642, 0.3460,  
0.3834

 23.3998, 0.3631,  
0.4143


 114.8576, 0.3434,  
0.3788

 14.8890, 0.3703,  
0.4282


 145.6207, 0.3411,  
0.3750

 8.7415, 0.3796,  
0.4472

181.4378, 0.3392,  
0.3717

 4.5730, 0.3914,  
0.4743

222.6934, 0.3375,  
0.3688

 1.9990, 0.4337,  
0.5504

269.7719, 0.3360,

 0.6069, 0.3827,

0.3663

0.6173

323.0577, 0.3347,  
0.3641

0.0000, 0.0000,  
0.0000

49.0490, 0.3529,  
0.3955

49.0490, 0.3529,  
0.3955

48.5486, 0.3675,  
0.4197

49.6491, 0.3379,  
0.3706

48.1363, 0.3812,  
0.4423

50.3468, 0.3229,  
0.3459

47.8090, 0.3933,  
0.4624


51.1487, 0.3084,  
0.3219


47.5607, 0.4033,  
0.4790


52.0588, 0.2947,  
0.2991


47.3847, 0.4109,  
0.4916


53.0808, 0.2818,  
0.2778


 47.2732, 0.4160,  
0.5000


 54.2185, 0.2699,  
0.2582

 47.2153, 0.4186,  
0.5044

 54.4499, 0.2678,  
0.2547

 47.2022, 0.4192,  
0.5054

 54.4519, 0.2678,  
0.2547

 54.4538, 0.2678,  
0.2547

# Harmonies

## Analogous

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



49.0490, 0.3791, 0.3817



49.0490, 0.3529, 0.3955



49.0490, 0.3169, 0.3899

# Triad

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



49.0490, 0.3529, 0.3955



49.0490, 0.2436, 0.2956



49.0490, 0.3429, 0.2968

# Complementary

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



49.0490, 0.3529, 0.3955



27.2565, 0.2665, 0.2526

# 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.



49.0490, 0.3050, 0.2765



49.0490, 0.3529, 0.3955



49.0490, 0.2494, 0.2744

# Square

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



49.0490, 0.3529, 0.3955



49.0490, 0.2548, 0.3286



49.0490, 0.2712, 0.2682



49.0490, 0.3737, 0.3249



# Rectangle

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



49.0490, 0.3529, 0.3955



49.0490, 0.2924, 0.3747



49.0490, 0.2712, 0.2682



49.0490, 0.3305, 0.2889

# Sweetspot

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



49.0512, 0.3529, 0.3955



90.0056, 0.3246, 0.3487



30.8309, 0.3701, 0.3292



19.3129, 0.3268, 0.3524



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.



49.0512, 0.3529, 0.3955



87.3194, 0.3611, 0.4090



46.0757, 0.3304, 0.4006



11.1202, 0.3264, 0.3517



31.7543, 0.4192, 0.5054



1.2440, 0.4192, 0.5053



# Inverse Universe

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



27.2565, 0.2665, 0.2526



42.1858, 0.2554, 0.2342



29.6901, 0.2904, 0.2575



9.2257, 0.2984, 0.3053



2.4729, 0.1500, 0.0600



0.0970, 0.1502, 0.0601



# Previews

## White Background



This preview shows how the Yxy color 49.0490, 0.3529, 0.3955 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 49.0490, 0.3529, 0.3955 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

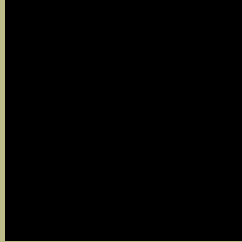
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.0490, 0.3529, 0.3955**

## Background



This preview shows how black text looks on a background with the Yxy color 49.0490, 0.3529, 0.3955.



This preview shows how white text looks on a background with the Yxy color 49.0490, 0.3529, 0.3955.

# 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

49.0490, 0.3529, 0.3955

### Protanopia

49.2033, 0.3647, 0.3910

### Deuteranopia

48.7943, 0.3828, 0.3746



## Tritanopia

48.7690, 0.3136, 0.3105

# Trichromacy



## Original Color

49.0490, 0.3529, 0.3955

## Protanomaly

49.0826, 0.3607, 0.3930

## Deuteranomaly

48.7299, 0.3719, 0.3823

## Tritanomaly

48.7136, 0.3276, 0.3405

# Monochromacy



## Original Color

49.0490, 0.3529, 0.3955

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

47.8022, 0.3270, 0.3526

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.0490, 0.3529, 0.3955 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(189, 189, 138)` looks like.

```
.text, #text, p{  
    color:rgb(189, 189, 138)  
}
```

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(189, 189, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 189, 138) }
```

## Border

The CSS property to change the border of an element to Yxy 49.0490, 0.3529, 0.3955 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(189, 189, 138) }
```

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

```
.border{ border-color:rgb(189, 189, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 189, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 189, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 189, 138);  
box-shadow:4px 4px 4px 4px rgb(189, 189,  
138) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.0490, 0.3529, 0.3955 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 189, 138) }
```

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

```
.background{ background-color: rgb(189,  
189, 138) }
```

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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