

# Converting Colors

$Yxy(49.0508, 0.3287, 0.3528)$

Have a look what the booklet for  
Yxy(49.0508, 0.3287, 0.3528)  
contains.

<b>Yxy(49.1866, 0.3294, 0.3535)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(49.1866, 0.3294, 0.3535)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDBBA8
RGB	189, 187, 168
RGB Percent	74%, 73%, 66%
CMY	0.2586, 0.2667, 0.3412
CMYK	0.00, 0.01, 0.11, 0.26
HSL	54°, 14%, 70%
HSV	54°, 11%, 74%
XYZ	45.8333, 49.1866, 44.1218
YIQ	185.4320, 7.2910, -5.4850

# Conversions

## Conversions Part 2

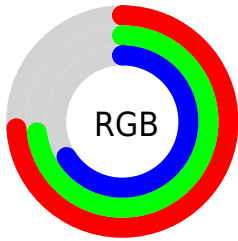
Format	Color
<a href="#">RYB</a>	<a href="#">170, 189, 168</a>
Decimal	<a href="#">12434344</a>
CIELab	<a href="#">75.57, -2.60, 9.87</a>
CIELCh	<a href="#">76, 10.211, 104.740</a>
Yxy	<a href="#">49.1866, 0.3294, 0.3535</a>
Android (android.graphics.Color)	<a href="#">4290624424</a> ( <a href="#">0xFFBDBBA8</a> )
YUV	<a href="#">185.4320, -8.5940, 3.1291</a>
Hunter-Lab	<a href="#">70.1332, -6.0801, 11.7930</a>

# Details

The Yxy color  $49.1866, 0.3294, 0.3535$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $40.7718, 0.2955, 0.3033$ , and the grayscale version is  $48.8192, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $88.8414, 0.3263, 0.3491$ , and  $23.5454, 0.3344, 0.3606$  is the 20% darker color. If you saturate the color by 10%, you get  $47.7546, 0.3451, 0.3762$ , and if you desaturate by 10%, it is  $50.7355, 0.3144, 0.3314$ .

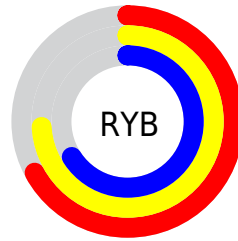
# Distribution



Red (74%)

Green (73%)

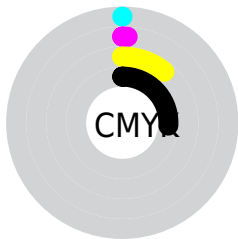
Blue (66%)



Red (67%)

Yellow (74%)

Blue (66%)

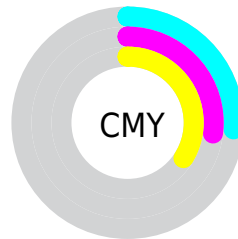


Cyan (0%)

Magenta (1%)

Yellow (11%)

Black (26%)



Cyan (26%)

Magenta (27%)


Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.1866, 0.3294, 0.3535 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 49.1866, 0.3294, 0.3535 by changing the saturation by 10% instead.





 49.1866, 0.3294,  
0.3535


 49.1866, 0.3294,  
0.3535


383.4765, 0.3212,  
0.3413

 34.7675, 0.3314,  
0.3565


 88.9685, 0.3264,  
0.3491

 23.4839, 0.3340,  
0.3604


 115.1002, 0.3253,  
0.3474

 14.9512, 0.3374,  
0.3656


145.9048, 0.3244,  
0.3460

 8.7851, 0.3421,  
0.3728

181.7668, 0.3235,  
0.3448

 4.6013, 0.3489,  
0.3835

223.0706, 0.3228,  
0.3437

 2.0153, 0.3596,  
0.4009

270.2005, 0.3222,

 0.6163, 0.4587,

0.3428

0.5413

323.5410, 0.3217,  
0.3420

0.0000, 0.0000,  
0.0000

49.1866, 0.3294,  
0.3535

49.1866, 0.3294,  
0.3535

47.7546, 0.3451,  
0.3762

50.7355, 0.3144,  
0.3314

46.4286, 0.3611,  
0.3989

52.3989, 0.3002,  
0.3104

45.2060, 0.3770,  
0.4209

54.1830, 0.2872,  
0.2907

44.0815, 0.3922,  
0.4412

56.0915, 0.2752,  
0.2725

43.0497, 0.4059,  
0.4588

57.6340, 0.2686,  
0.2630

■ 42.1041, 0.4177,  
0.4730

■ 58.4752, 0.2688,  
0.2652

■ 41.2377, 0.4270,  
0.4830

■ 59.3267, 0.2690,  
0.2673

■ 40.4418, 0.4336,  
0.4886

■ 60.1886, 0.2692,  
0.2695

■ 39.7808, 0.4376,  
0.4907

■ 61.0610, 0.2694,  
0.2716

# Harmonies

## Analogous

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



49.1866, 0.3383, 0.3487



49.1866, 0.3294, 0.3535



49.1866, 0.3162, 0.3515

# Triad

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



49.1866, 0.3294, 0.3535



49.1866, 0.2860, 0.3181



49.1866, 0.3230, 0.3156

# Complementary

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



49.1866, 0.3294, 0.3535



40.7718, 0.2955, 0.3033

# 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.



49.1866, 0.3088, 0.3078



49.1866, 0.3294, 0.3535



49.1866, 0.2877, 0.3089

# Square

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



49.1866, 0.3294, 0.3535



49.1866, 0.2913, 0.3306



49.1866, 0.2959, 0.3053



49.1866, 0.3346, 0.3268



# Rectangle

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



49.1866, 0.3294, 0.3535



49.1866, 0.3067, 0.3464



49.1866, 0.2959, 0.3053



49.1866, 0.3183, 0.3125

# Sweetspot

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



49.1888, 0.3294, 0.3535



90.2679, 0.3172, 0.3356



41.7355, 0.3304, 0.3263



19.3627, 0.3184, 0.3374



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.



49.1888, 0.3294, 0.3535



87.4966, 0.3326, 0.3582



49.0230, 0.3219, 0.3567



10.9566, 0.3267, 0.3495



26.8124, 0.4374, 0.4909



1.0970, 0.4325, 0.4948



# Inverse Universe

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



40.7718, 0.2955, 0.3033



69.8811, 0.2920, 0.2981



40.9594, 0.3028, 0.3010



9.3716, 0.2984, 0.3076



2.8272, 0.1521, 0.0677



0.1618, 0.1595, 0.0940



# Previews

## White Background



This preview shows how the Yxy color 49.1866, 0.3294, 0.3535 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

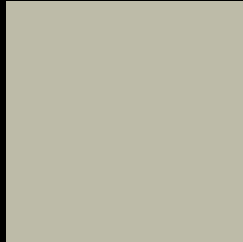
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.1866, 0.3294, 0.3535 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

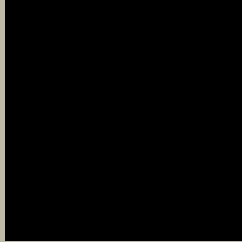
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

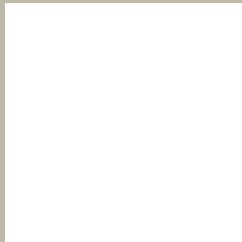
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.1866, 0.3294, 0.3535**

## Background



This preview shows how black text looks on a background with the Yxy color 49.1866, 0.3294, 0.3535.



This preview shows how white text looks on a background with the Yxy color 49.1866, 0.3294, 0.3535.

# 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

49.1866, 0.3294, 0.3535

### Protanopia

49.3772, 0.3347, 0.3532

### Deuteranopia

48.8064, 0.3487, 0.3413



## Tritanopia

49.2356, 0.3102, 0.3117

# Trichromacy



## Original Color

49.1866, 0.3294, 0.3535

## Protanomaly

49.1143, 0.3329, 0.3534

## Deuteranomaly

48.8770, 0.3408, 0.3453

## Tritanomaly

49.0326, 0.3179, 0.3265

# Monochromacy



## Original Color

49.1866, 0.3294, 0.3535

## Achromatopsia

48.5150, 0.3127, 0.3290

## Achromatomaly

48.8116, 0.3182, 0.3380

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.1866, 0.3294, 0.3535 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, 187, 168)` looks like.

```
.text, #text, p{  
    color:rgb(189, 187, 168)  
}
```

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, 187, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 187, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 49.1866, 0.3294, 0.3535 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, 187, 168) }
```

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

```
.border{ border-color:rgb(189, 187, 168) }
```

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

Here you see how a box with a 4 pixel rgb(189, 187, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 187, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 187, 168);  
box-shadow:4px 4px 4px 4px rgb(189, 187,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.1866, 0.3294, 0.3535 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 187, 168) }
```

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

```
.background{ background-color: rgb(189,  
187, 168) }
```

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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