

# Converting Colors

$Yxy(49.2857, 0.3146, 0.3882)$

Have a look what the booklet for  
Yxy(49.2857, 0.3146, 0.3882)  
contains.

<b>Yxy(49.1507, 0.3146, 0.3886)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(49.1507, 0.3146, 0.3886)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9FC499
RGB	159, 196, 153
RGB Percent	62%, 77%, 60%
CMY	0.3764, 0.2314, 0.3999
CMYK	0.19, 0.00, 0.22, 0.23
HSL	112°, 27%, 68%
HSV	112°, 22%, 77%
XYZ	39.7911, 49.1507, 37.5397
YIQ	180.0350, -8.2490, -21.2170

# Conversions

## Conversions Part 2

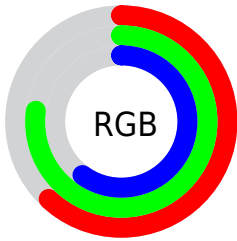
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 196, 190
Decimal	10470553
CIELab	75.54, -20.55, 17.60
CIELCh	76, 27.053, 139.428
Yxy	49.1507, 0.3146, 0.3886
Android (android.graphics.Color)	4288660633 (0xFF9FC499)
YUV	180.0350, -13.3283, -18.4477
Hunter-Lab	70.1076, -21.3767, 17.3279

# Details

The Yxy color **49.1507, 0.3146, 0.3886** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **37.7282, 0.3096, 0.2742**, and the grayscale version is **45.7408, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.0517, 0.3148, 0.3782**, and **23.4311, 0.3143, 0.4061** is the 20% darker color. If you saturate the color by 10%, you get **46.9482, 0.3150, 0.4204**, and if you desaturate by 10%, it is **51.6992, 0.3139, 0.3596**.

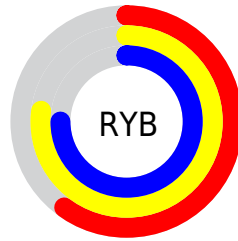
# Distribution



Red (62%)

Green (77%)

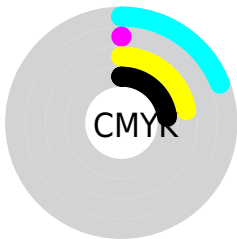
Blue (60%)



Red (60%)

Yellow (77%)

Blue (75%)

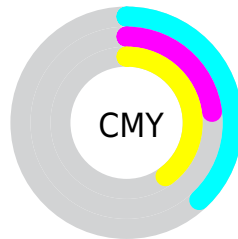


Cyan (19%)

Magenta (0%)

Yellow (22%)

Black (23%)



Cyan (38%)

Magenta (23%)


Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.1507, 0.3146, 0.3886 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 49.1507, 0.3146, 0.3886 by changing the saturation by 10% instead.





 49.1507, 0.3146,  
0.3886

 49.1507, 0.3146,  
0.3886


383.3353, 0.3142,  
0.3581

 34.7390, 0.3145,  
0.3965


 88.9152, 0.3146,  
0.3773

 23.4619, 0.3143,  
0.4067


 115.0369, 0.3145,  
0.3731

 14.9350, 0.3138,  
0.4205


145.8307, 0.3145,  
0.3696

 8.7738, 0.3127,  
0.4401

181.6810, 0.3144,  
0.3666

 4.5939, 0.3100,  
0.4702

222.9722, 0.3144,  
0.3640

 2.0110, 0.3058,  
0.5259

270.0887, 0.3143,

 0.6139, 0.1176,

0.3618

0.8824

323.4150, 0.3143,  
0.3598

0.0000, 0.0000,  
0.0000

49.1507, 0.3146,  
0.3886

49.1507, 0.3146,  
0.3886

46.9482, 0.3150,  
0.4204

51.6992, 0.3139,  
0.3596

45.0709, 0.3150,  
0.4541

54.6013, 0.3129,  
0.3336

43.5049, 0.3144,  
0.4884

57.8721, 0.3118,  
0.3108

42.2334, 0.3131,  
0.5214

61.5238, 0.3107,  
0.2908

41.2376, 0.3112,  
0.5506

65.5683, 0.3096,  
0.2734

■ 40.4966, 0.3086,  
0.5738

■ 67.9599, 0.3154,  
0.2712

■ 39.9862, 0.3058,  
0.5894

■ 39.7166, 0.3037,  
0.5971

# Harmonies

## Analogous

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



49.1507, 0.3508, 0.3955



49.1507, 0.3146, 0.3886



49.1507, 0.2793, 0.3623

# Triad

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



49.1507, 0.3146, 0.3886



49.1507, 0.2505, 0.2738



49.1507, 0.3748, 0.3268

# Complementary

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



49.1507, 0.3146, 0.3886



37.7282, 0.3096, 0.2742

# 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.



49.1507, 0.3450, 0.2984



49.1507, 0.3146, 0.3886



49.1507, 0.2731, 0.2685

# Square

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



49.1507, 0.3146, 0.3886



49.1507, 0.2437, 0.2940



49.1507, 0.3073, 0.2776



49.1507, 0.3869, 0.3572



# Rectangle

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



49.1507, 0.3146, 0.3886



49.1507, 0.2608, 0.3386



49.1507, 0.3073, 0.2776



49.1507, 0.3665, 0.3168

# Sweetspot

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



49.1528, 0.3146, 0.3886



96.1044, 0.3134, 0.3467



50.6711, 0.3470, 0.3754



20.5017, 0.3135, 0.3483



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

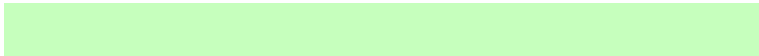


# Same Dimension

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



49.1528, 0.3146, 0.3886



87.1766, 0.3148, 0.4025



49.0851, 0.2993, 0.3677



11.3245, 0.3136, 0.3526



25.5422, 0.3042, 0.5967



1.1258, 0.3160, 0.5873



# Inverse Universe

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



37.7282, 0.3096, 0.2742



63.0385, 0.3088, 0.2626



37.8631, 0.3291, 0.2932



10.1742, 0.3116, 0.3062



7.9896, 0.2864, 0.1351

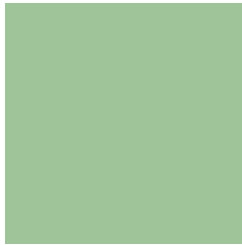


0.3652, 0.2946, 0.1396



# Previews

## White Background



This preview shows how the Yxy color 49.1507, 0.3146, 0.3886 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 49.1507, 0.3146, 0.3886 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

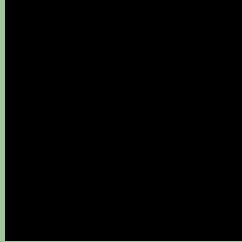
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.1507, 0.3146, 0.3886**

## Background



This preview shows how black text looks on a background with the Yxy color 49.1507, 0.3146, 0.3886.



This preview shows how white text looks on a background with the Yxy color 49.1507, 0.3146, 0.3886.

# 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

49.1507, 0.3146, 0.3886

### Protanopia

48.7064, 0.3532, 0.3763

### Deuteranopia

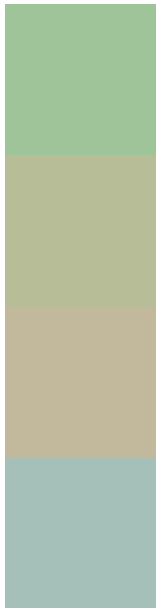
48.9707, 0.3628, 0.3558



## Tritanopia

48.9703, 0.2846, 0.3095

# Trichromacy



**Original Color**

49.1507, 0.3146, 0.3886

**Protanomaly**

48.6645, 0.3381, 0.3806

**Deuteranomaly**

48.5676, 0.3439, 0.3663

**Tritanomaly**

49.0946, 0.2957, 0.3383

# Monochromacy



**Original Color**

49.1507, 0.3146, 0.3886

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

46.7907, 0.3134, 0.3506

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.1507, 0.3146, 0.3886 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(159, 196, 153)` looks like.

```
.text, #text, p{  
    color:rgb(159, 196, 153)  
}
```

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(159, 196, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 196, 153) }
```

## Border

The CSS property to change the border of an element to Yxy 49.1507, 0.3146, 0.3886 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(159, 196, 153) }
```

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

```
.border{ border-color:rgb(159, 196, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 196, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 196, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 196, 153);  
box-shadow:4px 4px 4px 4px rgb(159, 196,  
153) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.1507, 0.3146, 0.3886 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 196, 153) }
```

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

```
.background{ background-color: rgb(159,  
196, 153) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor