

# Converting Colors

$Y_{xy}(50.3860, 0.3531, 0.4497)$

Have a look what the booklet for  
Yxy(50.3860, 0.3531, 0.4497)  
contains.

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# Color

**Yxy(50.3860, 0.3530, 0.4497)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A9C76D
RGB	169, 199, 109
RGB Percent	66%, 78%, 43%
CMY	0.3371, 0.2196, 0.5726
CMYK	0.15, 0.00, 0.45, 0.22
HSL	80°, 45%, 60%
HSV	80°, 45%, 78%
XYZ	39.5514, 50.3860, 22.1062
YIQ	179.7700, 11.0100, -34.3500

# Conversions

## Conversions Part 2

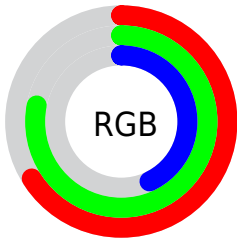
<b>Format</b>	<b>Color</b>
<b>RYB</b>	109, 199, 139
Decimal	11126637
CIELab	76.31, -24.58, 41.60
CIELCh	76, 48.319, 120.578
Yxy	50.3860, 0.3530, 0.4497
Android (android.graphics.Color)	4289316717 (0xFFA9C76D)
YUV	179.7700, -34.8896, -9.4453
Hunter-Lab	70.9831, -24.7612, 31.2235

# Details

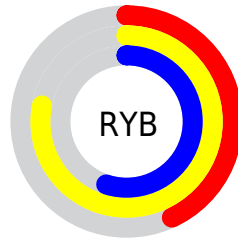
The Yxy color **50.3860, 0.3530, 0.4497** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **20.5440, 0.2551, 0.1984**, and the grayscale version is **45.7022, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.2974, 0.3479, 0.4266**, and **24.2114, 0.3593, 0.4837** is the 20% darker color. If you saturate the color by 10%, you get **49.2927, 0.3594, 0.4761**, and if you desaturate by 10%, it is **51.6179, 0.3451, 0.4221**.

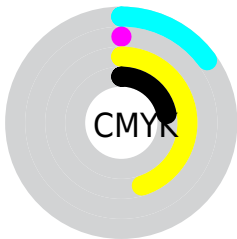
# Distribution



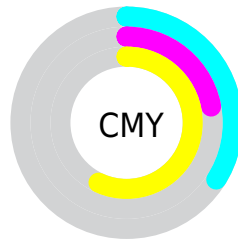
- Red (66%)
- Green (78%)
- Blue (43%)



- Red (43%)
- Yellow (78%)
- Blue (55%)



- Cyan (15%)
- Magenta (0%)
- Yellow (45%)
- Black (22%)




- Cyan (34%)
- Magenta (22%)
- Yellow (57%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.3860, 0.3530, 0.4497 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 50.3860, 0.3530, 0.4497 by changing the saturation by 10% instead.





 50.3860, 0.3530,  
0.4497


 50.3860, 0.3530,  
0.4497


388.1735, 0.3355,  
0.3883


 35.7202, 0.3563,  
0.4649


 90.7465, 0.3474,  
0.4274


 24.2182, 0.3597,  
0.4843


 117.2100, 0.3451,  
0.4190

 15.4955, 0.3630,  
0.5094


 148.3749, 0.3430,  
0.4119

 9.1679, 0.3649,  
0.5427

 184.6256, 0.3412,  
0.4058

 4.8509, 0.3687,  
0.5989

226.3463, 0.3395,  
0.4005

 2.1600, 0.3467,  
0.6533

273.9217, 0.3380,

 0.6981, 0.0833,

0.3959

0.9167

327.7359, 0.3367,  
0.3919

0.0000, 0.0000,  
0.0000

50.3860, 0.3530,  
0.4497

50.3860, 0.3530,  
0.4497

49.2927, 0.3594,  
0.4761

51.6179, 0.3451,  
0.4221

48.3241, 0.3640,  
0.5001

52.9883, 0.3363,  
0.3943

47.4745, 0.3662,  
0.5204


54.5053, 0.3270,  
0.3674

46.7346, 0.3660,  
0.5362


56.1748, 0.3176,  
0.3417


46.0933, 0.3633,  
0.5470

58.0019, 0.3083,  
0.3178

 45.8119, 0.3616,  
0.5511

 59.9917, 0.2994,  
0.2959

 62.1490, 0.2910,  
0.2759

 63.5993, 0.2914,  
0.2701

 64.6661, 0.2961,  
0.2709

# Harmonies

## Analogous

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



50.3860, 0.4091, 0.4320



50.3860, 0.3530, 0.4497



50.3860, 0.2892, 0.4255

# Triad

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



50.3860, 0.3530, 0.4497



50.3860, 0.1980, 0.2505



50.3860, 0.3920, 0.2925

# Complementary

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



50.3860, 0.3530, 0.4497



20.5440, 0.2551, 0.1984

# 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.



50.3860, 0.3264, 0.2540



50.3860, 0.3530, 0.4497



50.3860, 0.2185, 0.2290

# Square

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



50.3860, 0.3530, 0.4497



50.3860, 0.2032, 0.2978



50.3860, 0.2632, 0.2313



50.3860, 0.4358, 0.3402



# Rectangle

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



50.3860, 0.3530, 0.4497



50.3860, 0.2510, 0.3872



50.3860, 0.2632, 0.2313



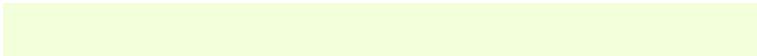
50.3860, 0.3714, 0.2782

# Sweetspot

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



50.3882, 0.3530, 0.4497



95.7257, 0.3260, 0.3647



31.2777, 0.4144, 0.3669



20.3587, 0.3281, 0.3704



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.



50.3882, 0.3530, 0.4497



86.3906, 0.3592, 0.4750



46.3464, 0.3178, 0.4644



12.2333, 0.3215, 0.3522



29.5088, 0.3624, 0.5505



1.4356, 0.3745, 0.5408



# Inverse Universe

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



20.5440, 0.2551, 0.1984



27.8135, 0.2395, 0.1683



25.0647, 0.3000, 0.2137



10.4561, 0.3034, 0.3055



3.4448, 0.1753, 0.0739



0.2029, 0.1994, 0.0872



# Previews

## White Background



This preview shows how the Yxy color 50.3860, 0.3530, 0.4497 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 50.3860, 0.3530, 0.4497 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

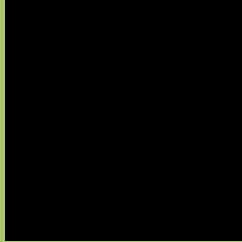
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.3860, 0.3530, 0.4497**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.3860, 0.3530, 0.4497.



This preview shows how white text looks on a background with the Yxy color 50.3860, 0.3530, 0.4497.

# 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

50.3860, 0.3530, 0.4497

### Protanopia

50.1082, 0.3940, 0.4293

### Deuteranopia

49.9491, 0.4126, 0.4029



## Tritanopia

50.1020, 0.2960, 0.3101

# Trichromacy



**Original Color**

50.3860, 0.3530, 0.4497

**Protanomaly**

50.0773, 0.3793, 0.4372

**Deuteranomaly**

49.5531, 0.3909, 0.4191

**Tritanomaly**

49.9110, 0.3178, 0.3593

# Monochromacy



**Original Color**

50.3860, 0.3530, 0.4497

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

47.1038, 0.3292, 0.3736

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.3860, 0.3530, 0.4497 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(169, 199, 109)` looks like.

```
.text, #text, p{  
    color:rgb(169, 199, 109)  
}
```

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(169, 199, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(169, 199, 109) }
```

## Border

The CSS property to change the border of an element to Yxy 50.3860, 0.3530, 0.4497 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(169, 199, 109) }
```

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

```
.border{ border-color:rgb(169, 199, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(169, 199, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(169, 199, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(169, 199, 109);  
box-shadow:4px 4px 4px 4px rgb(169, 199,  
109) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.3860, 0.3530, 0.4497 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(169, 199, 109) }
```

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

```
.background{ background-color: rgb(169,  
199, 109) }
```

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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