

# Converting Colors

$Y_{xy}(37.8611, 0.3703, 0.4614)$

Have a look what the booklet for  
Yxy(37.8611, 0.3703, 0.4614)  
contains.

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**Color**

**Yxy(37.9646, 0.3696, 0.4614)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9CAE53
RGB	156, 174, 83
RGB Percent	61%, 68%, 33%
CMY	0.3881, 0.3177, 0.6746
CMYK	0.10, 0.00, 0.52, 0.32
HSL	72°, 36%, 50%
HSV	72°, 52%, 68%
XYZ	30.4112, 37.9646, 13.9055
YIQ	158.2440, 18.4830, -32.1170

# Conversions

## Conversions Part 2

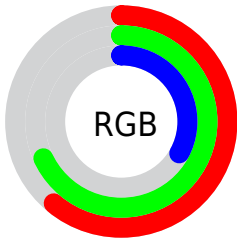
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	83, 174, 101
Decimal	10268243
CIE <sub>Lab</sub>	67.99, -20.06, 44.10
CIE <sub>LCh</sub>	68, 48.450, 114.464
Yxy	37.9646, 0.3696, 0.4614
Android (android.graphics.Color)	4288458323 (0xFF9CAE53)
YUV	158.2440, -37.0953, -1.9680
Hunter-Lab	61.6154, -19.7257, 29.7501

# Details

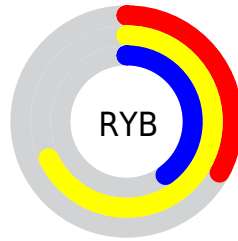
The Yxy color **37.9646, 0.3696, 0.4614** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **12.0047, 0.2312, 0.1725**, and the grayscale version is **34.4762, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.7849, 0.3609, 0.4351**, and **16.9069, 0.3805, 0.5021** is the 20% darker color. If you saturate the color by 10%, you get **37.3925, 0.3772, 0.4835**, and if you desaturate by 10%, it is **38.6173, 0.3603, 0.4369**.

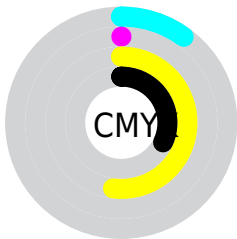
# Distribution



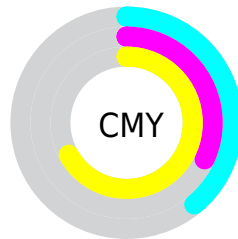
- Red (61%)
- Green (68%)
- Blue (33%)



- Red (33%)
- Yellow (68%)
- Blue (40%)



- Cyan (10%)
- Magenta (0%)
- Yellow (52%)
- Black (32%)




- Cyan (39%)
- Magenta (32%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.9646, 0.3696, 0.4614 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 37.9646, 0.3696, 0.4614 by changing the saturation by 10% instead.





 37.9646, 0.3696,  
0.4614


 37.9646, 0.3696,  
0.4614


 337.4681, 0.3433,  
0.3919


 25.9552, 0.3747,  
0.4791


 72.0539, 0.3609,  
0.4357


 16.7901, 0.3802,  
0.5017


 94.9026, 0.3574,  
0.4261

 10.0850, 0.3850,  
0.5308


 122.1331, 0.3543,  
0.4181

 5.4553, 0.3921,  
0.5770

 154.1300, 0.3515,  
0.4113

 2.5168, 0.3793,  
0.6207

 191.2775, 0.3491,  
0.4054

 0.8850, 0.2842,  
0.7158

233.9601, 0.3470,

 0.0000, 0.0000,

0.4003

0.0000

282.5622, 0.3451,  
0.3958

■ 37.9646, 0.3696,  
0.4614

■ 37.9646, 0.3696,  
0.4614

■ 37.3925, 0.3772,  
0.4835

■ 38.6173, 0.3603,  
0.4369

■ 36.8905, 0.3826,  
0.5023

■ 39.3501, 0.3497,  
0.4110

■ 36.4545, 0.3855,  
0.5169

■ 40.1690, 0.3384,  
0.3849

■ 36.0774, 0.3859,  
0.5270

■ 41.0780, 0.3268,  
0.3592

■ 35.8156, 0.3850,  
0.5325

■ 42.0808, 0.3153,  
0.3345

■ 43.1808, 0.3042,  
0.3113

■ 44.3813, 0.2936,  
0.2898

■ 45.6855, 0.2837,  
0.2700

■ 47.0963, 0.2744,  
0.2520

# Harmonies

## Analogous

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



37.9646, 0.4274, 0.4327



37.9646, 0.3696, 0.4614



37.9646, 0.3000, 0.4461

# Triad

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



37.9646, 0.3696, 0.4614



37.9646, 0.1869, 0.2508



37.9646, 0.3863, 0.2793

# Complementary

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



37.9646, 0.3696, 0.4614



12.0047, 0.2312, 0.1725

# 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.



37.9646, 0.3122, 0.2409



37.9646, 0.3696, 0.4614



37.9646, 0.2035, 0.2226

# Square

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



37.9646, 0.3696, 0.4614



37.9646, 0.1980, 0.3076



37.9646, 0.2464, 0.2205



37.9646, 0.4417, 0.3292



# Rectangle

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



37.9646, 0.3696, 0.4614



37.9646, 0.2564, 0.4082



37.9646, 0.2464, 0.2205



37.9646, 0.3622, 0.2648

# Sweetspot

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



37.9663, 0.3696, 0.4614



73.8378, 0.3314, 0.3693



18.6744, 0.4462, 0.3539



16.3375, 0.3338, 0.3745



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



37.9663, 0.3696, 0.4614



67.6540, 0.3783, 0.4872



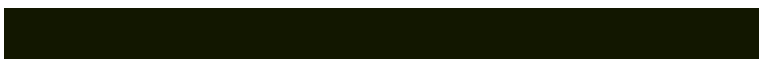
34.3278, 0.3277, 0.4817



9.2491, 0.3233, 0.3516



26.0030, 0.3854, 0.5322



0.7435, 0.3963, 0.5235



# Inverse Universe

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



12.0047, 0.2312, 0.1725



15.3376, 0.2093, 0.1352



15.2764, 0.2822, 0.1921



7.8305, 0.3015, 0.3058



2.4882, 0.1607, 0.0659



0.0909, 0.1889, 0.0814



# Previews

## White Background



This preview shows how the Yxy color 37.9646, 0.3696, 0.4614 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 37.9646, 0.3696, 0.4614 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 37.9646, 0.3696, 0.4614**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.9646, 0.3696, 0.4614.



This preview shows how white text looks on a background with the Yxy color 37.9646, 0.3696, 0.4614.

# 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

37.9646, 0.3696, 0.4614

### Protanopia

37.9189, 0.4043, 0.4429

### Deuteranopia

37.8383, 0.4253, 0.4172



## Tritanopia

37.9407, 0.3044, 0.3109

# Trichromacy



## Original Color

37.9646, 0.3696, 0.4614

## Protanomaly

37.8543, 0.3912, 0.4500

## Deuteranomaly

37.6619, 0.4043, 0.4325

## Tritanomaly

37.7750, 0.3297, 0.3656

# Monochromacy



## Original Color

37.9646, 0.3696, 0.4614

## Achromatopsia

34.1914, 0.3127, 0.3290

## Achromatomaly

35.3577, 0.3353, 0.3790

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.9646, 0.3696, 0.4614 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(156, 174, 83)` looks like.

```
.text, #text, p{  
    color:rgb(156, 174, 83)  
}
```

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(156, 174, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 174, 83) }
```

## Border

The CSS property to change the border of an element to Yxy 37.9646, 0.3696, 0.4614 is called "border". The border property can be set on classes, ids or directly on the HTML element.

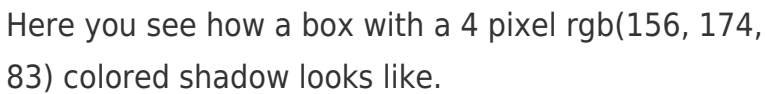
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(156, 174, 83) }
```

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

```
.border{ border-color:rgb(156, 174, 83) }
```

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



Here you see how a box with a 4 pixel `rgb(156, 174, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 174, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 174, 83);  
box-shadow:4px 4px 4px 4px rgb(156, 174,  
83) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 37.9646, 0.3696, 0.4614$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 174, 83) }
```

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

```
.background{ background-color: rgb(156,  
174, 83) }
```

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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