

# Converting Colors

$Y_{xy}(42.1292, 0.3616, 0.4122)$

Have a look what the booklet for  
Yxy(42.1292, 0.3616, 0.4122)  
contains.

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# Color

**Yxy(41.9587, 0.3619, 0.4122)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0B175
RGB	176, 177, 117
RGB Percent	69%, 69%, 46%
CMY	0.3098, 0.3059, 0.5411
CMYK	0.01, 0.00, 0.34, 0.31
HSL	61°, 28%, 58%
HSV	61°, 34%, 69%
XYZ	36.8386, 41.9587, 22.9948
YIQ	169.8610, 18.6640, -18.8720

# Conversions

## Conversions Part 2

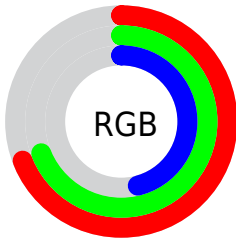
<b>Format</b>	<b>Color</b>
<b>RYB</b>	117, 177, 118
Decimal	11579765
CIELab	70.84, -9.77, 30.63
CIELCh	71, 32.147, 107.693
Yxy	41.9587, 0.3619, 0.4122
Android (android.graphics.Color)	4289769845 (0xFFB0B175)
YUV	169.8610, -26.0605, 5.3839
Hunter-Lab	64.7755, -11.8423, 24.2954

# Details

The Yxy color **41.9587, 0.3619, 0.4122** is a light color, and the websafe version is hex **999966**. A complement of this color would be **19.7573, 0.2538, 0.2303**, and the grayscale version is **40.2527, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.3359, 0.3528, 0.3967**, and **19.2222, 0.3733, 0.4375** is the 20% darker color. If you saturate the color by 10%, you get **41.5482, 0.3756, 0.4355**, and if you desaturate by 10%, it is **42.4518, 0.3474, 0.3877**.

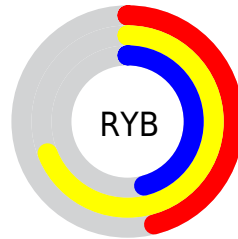
# Distribution



Red (69%)

Green (69%)

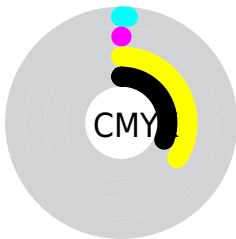
Blue (46%)



Red (46%)

Yellow (69%)

Blue (46%)

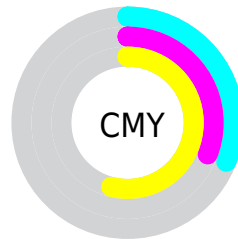


Cyan (1%)

Magenta (0%)

Yellow (34%)

Black (31%)



Cyan (31%)

Magenta (31%)


Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.9587, 0.3619, 0.4122 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 41.9587, 0.3619, 0.4122 by changing the saturation by 10% instead.





 41.9587, 0.3619,  
0.4122


 41.9587, 0.3619,  
0.4122


354.3117, 0.3378,  
0.3694


 29.0690, 0.3676,  
0.4231


 78.1371, 0.3533,  
0.3965

 19.1330, 0.3746,  
0.4371


 102.1946, 0.3501,  
0.3906

 11.7664, 0.3832,  
0.4556


 130.7434, 0.3473,  
0.3857

 6.5848, 0.3939,  
0.4809

164.1680, 0.3448,  
0.3815

 3.2038, 0.4132,  
0.5259

202.8527, 0.3427,  
0.3778

 1.2391, 0.4218,  
0.5782

247.1820, 0.3409,

 0.0933, 0.0000,

0.3747

1.0000

297.5402, 0.3393,  
0.3719

■ 0.0000, 0.0000,  
0.0000

■ 41.9587, 0.3619,  
0.4122

■ 41.9587, 0.3619,  
0.4122

■ 41.5482, 0.3756,  
0.4355

■ 42.4518, 0.3474,  
0.3877

■ 41.2102, 0.3879,  
0.4567

■ 43.0259, 0.3327,  
0.3628

■ 40.9416, 0.3984,  
0.4748

■ 43.6867, 0.3182,  
0.3383

■ 40.7371, 0.4065,  
0.4891


■ 44.4379, 0.3042,  
0.3147


■ 40.5902, 0.4122,  
0.4993

■ 45.2827, 0.2910,  
0.2925

 40.4934, 0.4153,  
0.5052

 46.2243, 0.2787,  
0.2719

 40.4488, 0.4164,  
0.5075

 47.2660, 0.2674,  
0.2529

 48.1744, 0.2591,  
0.2390

 48.2096, 0.2593,  
0.2391

# Harmonies

## Analogous

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



41.9587, 0.3950, 0.3936



41.9587, 0.3619, 0.4122



41.9587, 0.3170, 0.4061

# Triad

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



41.9587, 0.3619, 0.4122



41.9587, 0.2278, 0.2866



41.9587, 0.3503, 0.2894

# Complementary

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



41.9587, 0.3619, 0.4122



19.7573, 0.2538, 0.2303

# 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.



41.9587, 0.3028, 0.2649



41.9587, 0.3619, 0.4122



41.9587, 0.2350, 0.2613

# Square

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



41.9587, 0.3619, 0.4122



41.9587, 0.2411, 0.3277



41.9587, 0.2613, 0.2545



41.9587, 0.3891, 0.3233



# Rectangle

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



41.9587, 0.3619, 0.4122



41.9587, 0.2868, 0.3868



41.9587, 0.2613, 0.2545



41.9587, 0.3346, 0.2799

# Sweetspot

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



41.9606, 0.3619, 0.4122



77.4758, 0.3273, 0.3536



23.5958, 0.3900, 0.3307



16.7561, 0.3293, 0.3570



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.



41.9606, 0.3619, 0.4122



74.5581, 0.3727, 0.4306



38.8430, 0.3334, 0.4206



9.8993, 0.3261, 0.3515



29.3082, 0.4165, 0.5075



0.9244, 0.4173, 0.5069



# Inverse Universe

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



19.7573, 0.2538, 0.2303



28.4430, 0.2376, 0.2033



22.2008, 0.2845, 0.2382



8.2367, 0.2987, 0.3055



2.3164, 0.1507, 0.0604



0.0751, 0.1534, 0.0619



# Previews

## White Background



This preview shows how the Yxy color 41.9587, 0.3619, 0.4122 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 41.9587, 0.3619, 0.4122 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

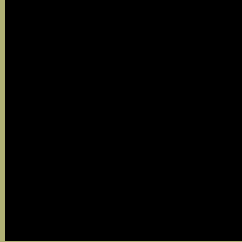
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.9587, 0.3619, 0.4122**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.9587, 0.3619, 0.4122.



This preview shows how white text looks on a background with the Yxy color 41.9587, 0.3619, 0.4122.

# 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

41.9587, 0.3619, 0.4122

### Protanopia

41.8163, 0.3771, 0.4066

### Deuteranopia

41.8697, 0.3959, 0.3882



## Tritanopia

41.9437, 0.3153, 0.3119

# Trichromacy



## Original Color

41.9587, 0.3619, 0.4122

## Protanomaly

41.7234, 0.3718, 0.4077

## Deuteranomaly

41.7932, 0.3838, 0.3970

## Tritanomaly

41.7974, 0.3329, 0.3481

# Monochromacy



## Original Color

41.9587, 0.3619, 0.4122

## Achromatopsia

40.1978, 0.3127, 0.3290

## Achromatomaly

40.8922, 0.3304, 0.3599

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.9587, 0.3619, 0.4122 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(176, 177, 117)` looks like.

```
.text, #text, p{  
    color:rgb(176, 177, 117)  
}
```

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(176, 177, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 177, 117) }
```

## Border

The CSS property to change the border of an element to Yxy 41.9587, 0.3619, 0.4122 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(176, 177, 117) }
```

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

```
.border{ border-color:rgb(176, 177, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 177, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 177, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 177, 117);  
box-shadow:4px 4px 4px 4px rgb(176, 177,  
117) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.9587, 0.3619, 0.4122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 177, 117) }
```

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

```
.background{ background-color: rgb(176,  
177, 117) }
```

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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