

# Converting Colors

$Y_{xy}(18.3524, 0.3200, 0.4041)$

Have a look what the booklet for  
Yxy(18.3524, 0.3200, 0.4041)  
contains.

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# Color

**Yxy(18.3692, 0.3209, 0.4048)**

# Conversions

## Conversions Part 1

Format	Color
Hex	647E5A
RGB	100, 126, 90
RGB Percent	39%, 49%, 35%
CMY	0.6078, 0.5059, 0.6471
CMYK	0.21, 0.00, 0.29, 0.51
HSL	103°, 17%, 42%
HSV	103°, 29%, 49%
XYZ	14.5619, 18.3692, 12.4473
YIQ	114.1220, -3.9400, -16.7080

# Conversions

## Conversions Part 2

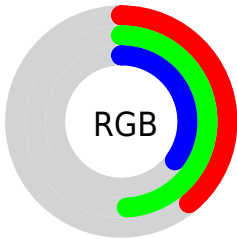
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	90, 126, 116
Decimal	6585946
CIE <sub>Lab</sub>	49.94, -16.68, 16.62
CIE <sub>LCh</sub>	50, 23.552, 135.100
Yxy	18.3692, 0.3209, 0.4048
Android (android.graphics.Color)	4284776026 (0xFF647E5A)
YUV	114.1220, -11.8921, -12.3850
Hunter-Lab	42.8593, -14.3563, 12.7824

# Details

The Yxy color  $18.3692, 0.3209, 0.4048$  is a dark color, and the websafe version is hex  $669966$ . A complement of this color would be  $12.5277, 0.3012, 0.2581$ , and the grayscale version is  $16.9034, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $40.7130, 0.3195, 0.3869$ , and  $6.2197, 0.3211, 0.4414$  is the 20% darker color. If you saturate the color by 10%, you get  $17.6834, 0.3230, 0.4354$ , and if you desaturate by 10%, it is  $19.1509, 0.3183, 0.3761$ .

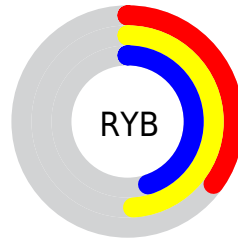
# Distribution



Red (39%)

Green (49%)

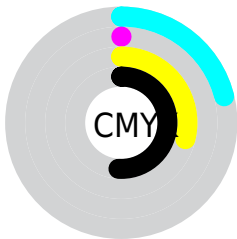
Blue (35%)



Red (35%)

Yellow (49%)

Blue (45%)

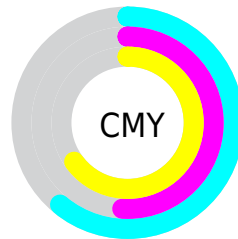


Cyan (21%)

Magenta (0%)

Yellow (29%)

Black (51%)



Cyan (61%)

Magenta (51%)


Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.3692, 0.3209, 0.4048 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 18.3692, 0.3209, 0.4048 by changing the saturation by 10% instead.




 18.3692, 0.3209,  
0.4048

 18.3692, 0.3209,  
0.4048


242.9439, 0.3170,  
0.3596

 11.2154, 0.3216,  
0.4195


 40.6654, 0.3196,  
0.3861


 6.2119, 0.3220,  
0.4411

 56.5766, 0.3191,  
0.3799

 2.9744, 0.3213,  
0.4758

 76.1758, 0.3186,  
0.3748

 1.1184, 0.3562,  
0.6237

 99.8472, 0.3182,  
0.3707

 0.0000, 0.0000,  
0.0000

 127.9753, 0.3179,  
0.3673

160.9445, 0.3175,

0.3643

199.1393, 0.3173,  
0.3618

■ 18.3692, 0.3209,  
0.4048

■ 18.3692, 0.3209,  
0.4048

■ 17.6834, 0.3230,  
0.4354

■ 19.1509, 0.3183,  
0.3761

■ 17.0873, 0.3244,  
0.4668

■ 20.0296, 0.3153,  
0.3497

■ 16.5777, 0.3248,  
0.4980

■ 21.0094, 0.3123,  
0.3258

■ 16.1504, 0.3240,  
0.5271

■ 22.0934, 0.3092,  
0.3044

■ 15.8006, 0.3219,  
0.5523

■ 23.2848, 0.3061,  
0.2855

■ 15.5231, 0.3186,  
0.5720

■ 24.5863, 0.3032,  
0.2687

■ 15.3076, 0.3147,  
0.5867

■ 26.0008, 0.3004,  
0.2540

■ 15.2807, 0.3142,  
0.5887

■ 27.5310, 0.2978,  
0.2410

■ 29.1793, 0.2953,  
0.2295

# Harmonies

## Analogous

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



18.3692, 0.3637, 0.4085



18.3692, 0.3209, 0.4048



18.3692, 0.2778, 0.3754

# Triad

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



18.3692, 0.3209, 0.4048



18.3692, 0.2361, 0.2650



18.3692, 0.3839, 0.3206

# Complementary

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



18.3692, 0.3209, 0.4048



12.5277, 0.3012, 0.2581

# 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.



18.3692, 0.3451, 0.2882



18.3692, 0.3209, 0.4048



18.3692, 0.2602, 0.2567

# Square

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



18.3692, 0.3209, 0.4048



18.3692, 0.2309, 0.2911



18.3692, 0.2994, 0.2654



18.3692, 0.4021, 0.3567



# Rectangle

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



18.3692, 0.3209, 0.4048



18.3692, 0.2545, 0.3467



18.3692, 0.2994, 0.2654



18.3692, 0.3727, 0.3091

# Sweetspot

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



18.3700, 0.3209, 0.4048



35.1533, 0.3155, 0.3512



17.6178, 0.3587, 0.3790



7.9513, 0.3159, 0.3543



63.8283, 0.3127, 0.3290



8.3535, 0.3127, 0.3290



# Same Dimension

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



18.3700, 0.3209, 0.4048



31.5644, 0.3223, 0.4236



17.9730, 0.3010, 0.3900



4.8722, 0.3155, 0.3510



15.6741, 0.3142, 0.5888



0.0000, 0.0000, 0.0000



# Inverse Universe

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



12.5277, 0.3012, 0.2581



19.5893, 0.2980, 0.2419



13.0583, 0.3272, 0.2749



4.3541, 0.3096, 0.3075



3.8215, 0.2535, 0.1170

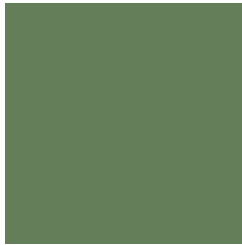


0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the Yxy color 18.3692, 0.3209, 0.4048 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 18.3692, 0.3209, 0.4048 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

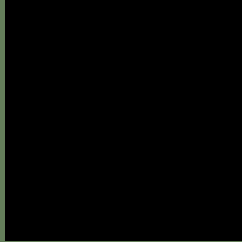
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.3692, 0.3209, 0.4048**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.3692, 0.3209, 0.4048.



This preview shows how white text looks on a background with the Yxy color 18.3692, 0.3209, 0.4048.

# 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

18.3692, 0.3209, 0.4048

### Protanopia

18.1570, 0.3627, 0.3885

### Deuteranopia

18.3139, 0.3738, 0.3673



## Tritanopia

18.4122, 0.2864, 0.3114

# Trichromacy



## Original Color

18.3692, 0.3209, 0.4048

## Protanomaly

18.1612, 0.3465, 0.3949

## Deuteranomaly

18.0895, 0.3537, 0.3794

## Tritanomaly

18.3468, 0.2989, 0.3451

# Monochromacy



## Original Color

18.3692, 0.3209, 0.4048

## Achromatopsia

16.8269, 0.3127, 0.3290

## Achromatomaly

17.2280, 0.3165, 0.3556

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.3692, 0.3209, 0.4048 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(100, 126, 90)` looks like.

```
.text, #text, p{  
    color:rgb(100, 126, 90)  
}
```

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(100, 126, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 126, 90) }
```

## Border

The CSS property to change the border of an element to Yxy 18.3692, 0.3209, 0.4048 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(100, 126, 90) }
```

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

```
.border{ border-color:rgb(100, 126, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 126, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 126, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 126, 90);  
box-shadow:4px 4px 4px 4px rgb(100, 126,  
90) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.3692, 0.3209, 0.4048 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 126, 90) }
```

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

```
.background{ background-color: rgb(100,  
126, 90) }
```

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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