

# Converting Colors

$Yxy(16.9616, 0.3317, 0.4072)$

Have a look what the booklet for  
Yxy(16.9616, 0.3317, 0.4072)  
contains.

<b>Yxy(16.8978, 0.3315, 0.4060)</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(16.8978, 0.3315, 0.4060)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	667854
RGB	102, 120, 84
RGB Percent	40%, 47%, 33%
CMY	0.6000, 0.5294, 0.6705
CMYK	0.15, 0.00, 0.30, 0.53
HSL	90°, 18%, 40%
HSV	90°, 30%, 47%
XYZ	13.7971, 16.8978, 10.9253
YIQ	110.5140, 0.8280, -15.0120

# Conversions

## Conversions Part 2

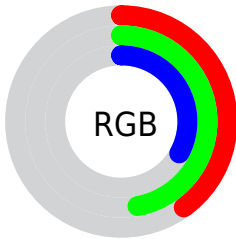
<b>Format</b>	<b>Color</b>
<b>RYB</b>	84, 120, 102
Decimal	6715476
CIELab	48.13, -13.65, 17.63
CIElCh	48, 22.300, 127.743
Yxy	16.8978, 0.3315, 0.4060
Android (android.graphics.Color)	4284905556 (0xFF667854)
YUV	110.5140, -13.0714, -7.4668
Hunter-Lab	41.1069, -12.0255, 13.0169

# Details

The Yxy color **16.8978, 0.3315, 0.4060** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **10.5250, 0.2886, 0.2522**, and the grayscale version is **15.7876, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.9986, 0.3272, 0.3862**, and **5.4307, 0.3375, 0.4444** is the 20% darker color. If you saturate the color by 10%, you get **16.3882, 0.3369, 0.4344**, and if you desaturate by 10%, it is **17.4665, 0.3255, 0.3786**.

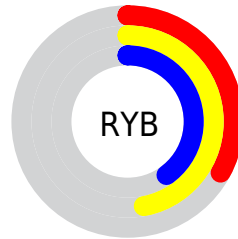
# Distribution



Red (40%)

Green (47%)

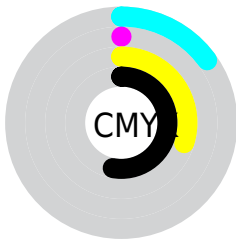
Blue (33%)



Red (33%)

Yellow (47%)

Blue (40%)

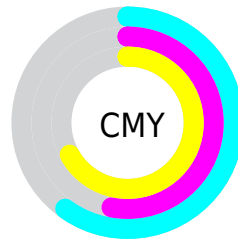


Cyan (15%)

Magenta (0%)

Yellow (30%)

Black (53%)



Cyan (60%)

Magenta (53%)


Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.8978, 0.3315, 0.4060 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 16.8978, 0.3315, 0.4060 by changing the saturation by 10% instead.





 16.8978, 0.3315,  
0.4060


 16.8978, 0.3315,  
0.4060


234.5827, 0.3213,  
0.3598


 10.1617, 0.3341,  
0.4212


 38.1500, 0.3277,  
0.3868


 5.5063, 0.3373,  
0.4437

 53.4348, 0.3263,  
0.3804

 2.5473, 0.3406,  
0.4799

 72.3380, 0.3251,  
0.3753

 0.9002, 0.3672,  
0.6328

 95.2439, 0.3241,  
0.3710

 0.0000, 0.0000,  
0.0000

 122.5369, 0.3233,  
0.3675

154.6015, 0.3225,

0.3646

191.8219, 0.3219,  
0.3620

■ 16.8978, 0.3315,  
0.4060

■ 16.8978, 0.3315,  
0.4060

■ 16.3882, 0.3369,  
0.4344

■ 17.4665, 0.3255,  
0.3786

■ 15.9333, 0.3414,  
0.4630

■ 18.0941, 0.3191,  
0.3528

■ 15.5315, 0.3445,  
0.4906


■ 18.7833, 0.3127,  
0.3290

■ 15.1802, 0.3459,  
0.5160

■ 19.5360, 0.3064,  
0.3071


■ 14.8768, 0.3454,  
0.5378


■ 20.3538, 0.3003,  
0.2874


 14.6178, 0.3428,  
0.5549


 21.2384, 0.2945,  
0.2696

 14.3936, 0.3391,  
0.5689

 22.1915, 0.2891,  
0.2537

 14.3933, 0.3391,  
0.5689

 23.2147, 0.2840,  
0.2394

 24.3094, 0.2792,  
0.2267

# Harmonies

## Analogous

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



16.8978, 0.3712, 0.4036



16.8978, 0.3315, 0.4060



16.8978, 0.2884, 0.3830

# Triad

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



16.8978, 0.3315, 0.4060



16.8978, 0.2350, 0.2713



16.8978, 0.3741, 0.3125

# Complementary

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



16.8978, 0.3315, 0.4060



10.5250, 0.2886, 0.2522

# 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.



16.8978, 0.3335, 0.2827



16.8978, 0.3315, 0.4060



16.8978, 0.2542, 0.2589

# Square

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



16.8978, 0.3315, 0.4060



16.8978, 0.2346, 0.3009



16.8978, 0.2894, 0.2635



16.8978, 0.3976, 0.3475



# Rectangle

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



16.8978, 0.3315, 0.4060



16.8978, 0.2636, 0.3569



16.8978, 0.2894, 0.2635



16.8978, 0.3619, 0.3017

# Sweetspot

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



16.8985, 0.3315, 0.4060



31.9129, 0.3186, 0.3509



14.1380, 0.3651, 0.3661



7.5297, 0.3194, 0.3540



62.0916, 0.3127, 0.3290



7.8288, 0.3127, 0.3290



# Same Dimension

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



16.8985, 0.3315, 0.4060



29.0916, 0.3353, 0.4255



15.9591, 0.3088, 0.4116



4.5392, 0.3185, 0.3506



15.6937, 0.3388, 0.5692



74.3543, 0.3353, 0.5720



# Inverse Universe

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



10.5250, 0.2886, 0.2522



15.9687, 0.2815, 0.2328



11.6926, 0.3160, 0.2583



3.9828, 0.3065, 0.3074



2.5194, 0.2056, 0.0906

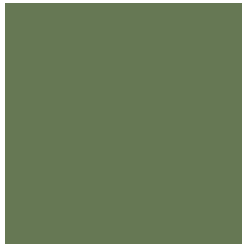


11.5118, 0.2005, 0.0878



# Previews

## White Background



This preview shows how the Yxy color 16.8978, 0.3315, 0.4060 looks on a white 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



# Black Background



This preview shows how the Yxy color 16.8978, 0.3315, 0.4060 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

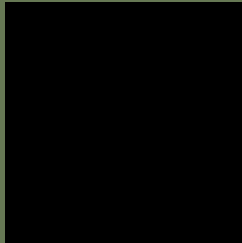
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 16.8978, 0.3315, 0.4060**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.8978, 0.3315, 0.4060.



This preview shows how white text looks on a background with the Yxy color 16.8978, 0.3315, 0.4060.

# 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

16.8978, 0.3315, 0.4060

### Protanopia

16.8397, 0.3668, 0.3942

### Deuteranopia

16.6775, 0.3791, 0.3724



## Tritanopia

16.9048, 0.2935, 0.3110

# Trichromacy



## Original Color

16.8978, 0.3315, 0.4060

## Protanomaly

16.7448, 0.3532, 0.3985

## Deuteranomaly

16.6037, 0.3608, 0.3848

## Tritanomaly

16.8909, 0.3081, 0.3455

# Monochromacy



## Original Color

16.8978, 0.3315, 0.4060

## Achromatopsia

15.8961, 0.3127, 0.3290

## Achromatomaly

16.1624, 0.3207, 0.3562

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.8978, 0.3315, 0.4060 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(102, 120, 84)` looks like.

```
.text, #text, p{  
    color:rgb(102, 120, 84)  
}
```

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(102, 120, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 120, 84) }
```

## Border

The CSS property to change the border of an element to Yxy 16.8978, 0.3315, 0.4060 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(102, 120, 84) }
```

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

```
.border{ border-color:rgb(102, 120, 84) }
```

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

Here you see how a box with a 4 pixel rgb(102, 120, 84) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 120, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 120, 84);  
box-shadow:4px 4px 4px 4px rgb(102, 120,  
84) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.8978, 0.3315, 0.4060 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 120, 84) }
```

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

```
.background{ background-color: rgb(102,  
120, 84) }
```

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