

# Converting Colors

$Y_{xy}(16.6820, 0.3344, 0.4046)$

Have a look what the booklet for  
Yxy(16.6820, 0.3344, 0.4046)  
contains.

<b>Yxy(16.7017, 0.3343, 0.4060)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(16.7017, 0.3343, 0.4060)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	677753
RGB	103, 119, 83
RGB Percent	40%, 47%, 33%
CMY	0.5961, 0.5333, 0.6745
CMYK	0.13, 0.00, 0.30, 0.53
HSL	87°, 18%, 40%
HSV	87°, 30%, 47%
XYZ	13.7522, 16.7017, 10.6833
YIQ	110.1120, 2.0200, -14.5880

# Conversions

## Conversions Part 2

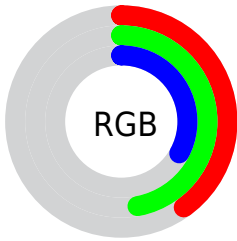
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	83, 119, 99
Decimal	6780755
CIE <sub>Lab</sub>	47.88, -12.86, 17.90
CIE <sub>LCh</sub>	48, 22.039, 125.706
Yxy	16.7017, 0.3343, 0.4060
Android (android.graphics.Color)	4284970835 (0xFF677753)
YUV	110.1120, -13.3662, -6.2372
Hunter-Lab	40.8677, -11.4525, 13.1083

# Details

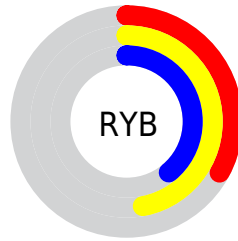
The Yxy color **16.7017, 0.3343, 0.4060** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **10.1720, 0.2853, 0.2509**, and the grayscale version is **15.6660, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.6893, 0.3292, 0.3862**, and **5.4586, 0.3396, 0.4436** is the 20% darker color. If you saturate the color by 10%, you get **16.2312, 0.3406, 0.4338**, and if you desaturate by 10%, it is **17.2250, 0.3274, 0.3790**.

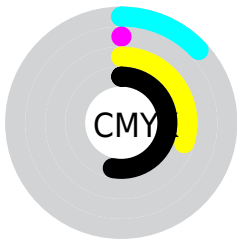
# Distribution



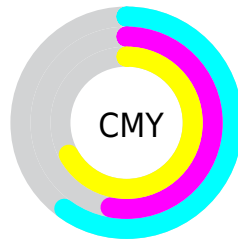
- Red (40%)
- Green (47%)
- Blue (33%)



- Red (33%)
- Yellow (47%)
- Blue (39%)



- Cyan (13%)
- Magenta (0%)
- Yellow (30%)
- Black (53%)




- Cyan (60%)
- Magenta (53%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.7017, 0.3343, 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 16.7017, 0.3343, 0.4060 by changing the saturation by 10% instead.





 16.7017, 0.3343,  
0.4060


 16.7017, 0.3343,  
0.4060


233.4475, 0.3225,  
0.3598


 10.0220, 0.3374,  
0.4212


 37.8122, 0.3298,  
0.3868


 5.4136, 0.3414,  
0.4437

 53.0118, 0.3282,  
0.3804


 2.4919, 0.3459,  
0.4799

 71.8202, 0.3268,  
0.3753

 0.8726, 0.3713,  
0.6287

 94.6217, 0.3257,  
0.3710

 0.0000, 0.0000,  
0.0000

 121.8008, 0.3247,  
0.3675

153.7419, 0.3238,

0.3646

190.8293, 0.3231,  
0.3620

■ 16.7017, 0.3343,  
0.4060

■ 16.7017, 0.3343,  
0.4060

■ 16.2312, 0.3406,  
0.4338

■ 17.2250, 0.3274,  
0.3790

■ 15.8093, 0.3459,  
0.4616

■ 17.8008, 0.3202,  
0.3534

■ 15.4346, 0.3499,  
0.4882


■ 18.4315, 0.3129,  
0.3296

■ 15.1049, 0.3520,  
0.5126


■ 19.1189, 0.3058,  
0.3077


■ 14.8175, 0.3521,  
0.5334

■ 19.8644, 0.2989,  
0.2877

 14.5696, 0.3501,  
0.5496

 20.6695, 0.2924,  
0.2697

 14.3563, 0.3470,  
0.5627

 21.5358, 0.2863,  
0.2535

 22.4647, 0.2806,  
0.2389

 23.4574, 0.2753,  
0.2259

# Harmonies

## Analogous

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



16.7017, 0.3731, 0.4020



16.7017, 0.3343, 0.4060



16.7017, 0.2914, 0.3848

# Triad

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



16.7017, 0.3343, 0.4060



16.7017, 0.2349, 0.2733



16.7017, 0.3713, 0.3104

# Complementary

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



16.7017, 0.3343, 0.4060



10.1720, 0.2853, 0.2509

# 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.



16.7017, 0.3303, 0.2813



16.7017, 0.3343, 0.4060



16.7017, 0.2528, 0.2597

# Square

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



16.7017, 0.3343, 0.4060



16.7017, 0.2359, 0.3036



16.7017, 0.2868, 0.2631



16.7017, 0.3961, 0.3450



# Rectangle

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



16.7017, 0.3343, 0.4060



16.7017, 0.2663, 0.3596



16.7017, 0.2868, 0.2631



16.7017, 0.3588, 0.2998

# Sweetspot

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



16.7024, 0.3343, 0.4060



31.9862, 0.3194, 0.3509



13.3954, 0.3670, 0.3616



7.5492, 0.3203, 0.3539



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.



16.7024, 0.3343, 0.4060



29.3362, 0.3386, 0.4245



15.7689, 0.3117, 0.4116



4.1891, 0.3193, 0.3504



15.2467, 0.3468, 0.5629



73.7849, 0.3433, 0.5656



# Inverse Universe

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



10.1720, 0.2853, 0.2509



15.7314, 0.2777, 0.2318



11.2736, 0.3123, 0.2569



3.6621, 0.3057, 0.3075



2.2103, 0.1955, 0.0850



10.2788, 0.1902, 0.0821



# Previews

## White Background



This preview shows how the Yxy color 16.7017, 0.3343, 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 16.7017, 0.3343, 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 16.7017, 0.3343, 0.4060**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.7017, 0.3343, 0.4060.



This preview shows how white text looks on a background with the Yxy color 16.7017, 0.3343, 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

16.7017, 0.3343, 0.4060

### Protanopia

16.5419, 0.3660, 0.3927

### Deuteranopia

16.6615, 0.3805, 0.3743



## Tritanopia

16.7159, 0.2958, 0.3110

# Trichromacy



## Original Color

16.7017, 0.3343, 0.4060

## Protanomaly

16.5155, 0.3537, 0.3967

## Deuteranomaly

16.6613, 0.3636, 0.3865

## Tritanomaly

16.6993, 0.3107, 0.3455

# Monochromacy



## Original Color

16.7017, 0.3343, 0.4060

## Achromatopsia

15.5926, 0.3127, 0.3290

## Achromatomaly

15.8562, 0.3207, 0.3564

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.7017, 0.3343, 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(103, 119, 83)` looks like.

```
.text, #text, p{  
    color:rgb(103, 119, 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(103, 119, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 119, 83) }
```

## Border

The CSS property to change the border of an element to Yxy 16.7017, 0.3343, 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(103, 119, 83) }
```

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

```
.border{ border-color:rgb(103, 119, 83) }
```

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

Here you see how a box with a 4 pixel rgb(103, 119, 83) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 119, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 119, 83);  
box-shadow:4px 4px 4px 4px rgb(103, 119,  
83) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.7017, 0.3343, 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(103, 119, 83) }
```

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

```
.background{ background-color: rgb(103,  
119, 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](#).

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