

# Converting Colors

$Y_{xy}(117.8640, 0.3669, 0.3984)$

Have a look what the booklet for  
Yxy(117.8640, 0.3669, 0.3984)  
contains.

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# Color

**Yxy(96.7655, 0.3478, 0.3870)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFC4
RGB	255, 255, 196
RGB Percent	100%, 100%, 77%
CMY	0.0000, 0.0000, 0.2314
CMYK	0.00, 0.00, 0.23, 0.00
HSL	60°, 100%, 88%
HSV	60°, 23%, 100%
XYZ	86.9639, 96.7655, 66.3106
YIQ	248.2740, 18.9390, -18.3490

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	196, 255, 196
Decimal	16777156
CIE Lab	98.74, -9.15, 28.29
CIE LCh	99, 29.735, 107.913
Yxy	96.7655, 0.3478, 0.3870
Android (android.graphics.Color)	4294967236 (0xFFFFFFFFC4)
YUV	248.2740, -25.7711, 5.8987
Hunter-Lab	98.3695, -14.3429, 28.8914

# Details

The Yxy color **96.7655, 0.3478, 0.3870** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **58.4290, 0.2731, 0.2636**, and the grayscale version is **94.3066, 0.3127, 0.3290**.

A 20% lighter version of the original color is **99.8718, 0.3139, 0.3309**, and **54.3469, 0.3550, 0.3989** is the 20% darker color. If you saturate the color by 10%, you get **95.7008, 0.3629, 0.4120**, and if you desaturate by 10%, it is **98.0266, 0.3325, 0.3616**.

# Distribution



- Red (100%)
- Green (100%)
- Blue (77%)



- Red (77%)
- Yellow (100%)
- Blue (77%)



- Cyan (0%)
- Magenta (0%)
- Yellow (23%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 96.7655, 0.3478, 0.3870 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 96.7655, 0.3478, 0.3870 by changing the saturation by 10% instead.




 96.7655, 0.3478,  
0.3870

 96.7655, 0.3478,  
0.3870

549.8017, 0.3327,  
0.3612

 73.6053, 0.3510,  
0.3926

156.7015, 0.3428,  
0.3783

 54.4710, 0.3547,  
0.3995


194.2460, 0.3408,  
0.3748

 38.9784, 0.3593,  
0.4079


237.3541, 0.3390,  
0.3718

 26.7429, 0.3649,  
0.4185

286.4101, 0.3375,  
0.3691

 17.3802, 0.3718,  
0.4323

341.7985, 0.3361,  
0.3668

 10.5060, 0.3806,  
0.4509

403.9037, 0.3349,

 5.7357, 0.3916,

0.3647

0.4767

473.1099, 0.3337,  
0.3629

■ 2.6850, 0.4160,  
0.5288

■ 0.9696, 0.4178,  
0.5822

■ 96.7655, 0.3478,  
0.3870

■ 96.7655, 0.3478,  
0.3870

■ 95.7008, 0.3629,  
0.4120

■ 98.0266, 0.3325,  
0.3616


■ 94.8240, 0.3772,  
0.4356


■ 99.4947, 0.3174,  
0.3367


■ 94.1237, 0.3901,  
0.4569


100.0000, 0.3127,  
0.3290

■ 93.5880, 0.4009,  
0.4748

 93.2033, 0.4094,  
0.4888

 92.9543, 0.4151,  
0.4983

 92.8220, 0.4183,  
0.5036

 92.7800, 0.4193,  
0.5053

# Harmonies

## Analogous

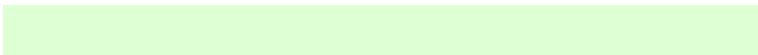
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



96.7655, 0.3706, 0.3756



96.7655, 0.3478, 0.3870



96.7655, 0.3163, 0.3816

# Triad

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



96.7655, 0.3478, 0.3870



96.7655, 0.2519, 0.2998



96.7655, 0.3395, 0.3009

# Complementary

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



96.7655, 0.3478, 0.3870



58.4290, 0.2731, 0.2636

# 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.



96.7655, 0.3064, 0.2828



96.7655, 0.3478, 0.3870



96.7655, 0.2572, 0.2811

# Square

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



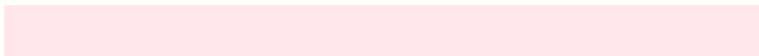
96.7655, 0.3478, 0.3870



96.7655, 0.2617, 0.3286



96.7655, 0.2766, 0.2755

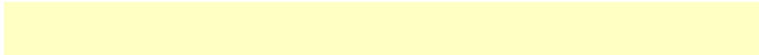


96.7655, 0.3661, 0.3260



# Rectangle

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



96.7655, 0.3478, 0.3870



96.7655, 0.2948, 0.3684



96.7655, 0.2766, 0.2755



96.7655, 0.3287, 0.2939

# Sweetspot

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



96.7650, 0.3478, 0.3870



98.9032, 0.3231, 0.3462



64.7198, 0.3608, 0.3291



21.1502, 0.3240, 0.3477



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

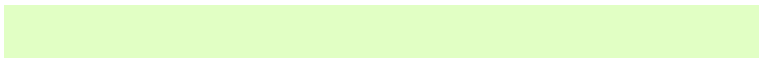
The Same Dimension uses a secret algorithm to generate beautiful new colors.



96.7650, 0.3478, 0.3870



96.2239, 0.3552, 0.3992



91.5921, 0.3282, 0.3908



21.0908, 0.3269, 0.3525



48.4795, 0.4193, 0.5053



4.7203, 0.4193, 0.5053



# Inverse Universe

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



58.4290, 0.2731, 0.2636



51.4760, 0.2635, 0.2476



62.7819, 0.2938, 0.2673



17.3778, 0.2978, 0.3044



3.7726, 0.1500, 0.0600

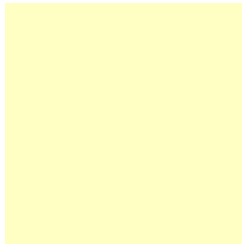


0.3673, 0.1500, 0.0600



# Previews

## White Background



This preview shows how the Yxy color 96.7655, 0.3478, 0.3870 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

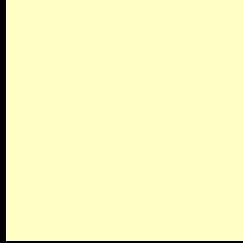
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 96.7655, 0.3478, 0.3870 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

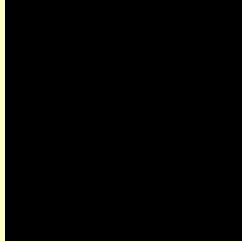
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 96.7655, 0.3478, 0.3870**

## **Background**



This preview shows how black text looks on a background with the Yxy color 96.7655, 0.3478, 0.3870.



This preview shows how white text looks on a background with the Yxy color 96.7655, 0.3478, 0.3870.

# 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

96.7655, 0.3478, 0.3870



### Protanopia

96.6052, 0.3212, 0.3387

### Deuteranopia

97.0317, 0.3170, 0.3319

## **Tritanopia**

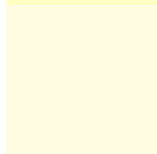
96.8512, 0.3129, 0.3242

# Trichromacy



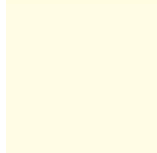
## Original Color

96.7655, 0.3478, 0.3870



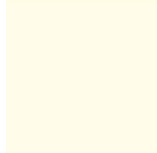
## Protanomaly

96.3170, 0.3307, 0.3553



## Deuteranomaly

96.5380, 0.3283, 0.3514



## Tritanomaly

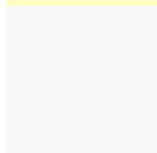
96.8213, 0.3253, 0.3465

# Monochromacy



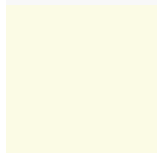
## Original Color

96.7655, 0.3478, 0.3870



## Achromatopsia

93.8686, 0.3127, 0.3290



## Achromatomaly

95.1607, 0.3258, 0.3506

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 96.7655, 0.3478, 0.3870 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(255, 255, 196)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 196)  
}
```

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(255, 255, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 96.7655, 0.3478, 0.3870 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(255, 255, 196) }
```

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

```
.border{ border-color:rgb(255, 255, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 196);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 96.7655, 0.3478, 0.3870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 196) }
```

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

```
.background{ background-color: rgb(255,  
255, 196) }
```

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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