

# Converting Colors

$Y_{xy}(215.2259, 0.3782, 0.4170)$

Have a look what the booklet for  
Yxy(215.2259, 0.3782, 0.4170)  
contains.

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# **Color**

**Yxy(98.4371, 0.3280, 0.3542)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFE5
RGB	255, 255, 229
RGB Percent	100%, 100%, 90%
CMY	0.0000, 0.0000, 0.1020
CMYK	0.00, 0.00, 0.10, 0.00
HSL	60°, 100%, 95%
HSV	60°, 10%, 100%
XYZ	91.1558, 98.4371, 88.3210
YIQ	252.0360, 8.3460, -8.0860

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	229, 255, 229
Decimal	16777189
CIE Lab	99.39, -4.30, 12.43
CIE LCh	99, 13.153, 109.083
Yxy	98.4371, 0.3280, 0.3542
Android (android.graphics.Color)	4294967269 (0xFFFFFFFFE5)
YUV	252.0360, -11.3567, 2.5994
Hunter-Lab	99.2155, -9.6274, 16.6712

# Details

The Yxy color 98.4371, 0.3280, 0.3542 is a light color, and the websafe version is hex FFFFCC. A complement of this color would be 79.9190, 0.2967, 0.3025, and the grayscale version is 97.4631, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 55.4499, 0.3306, 0.3586 is the 20% darker color. If you saturate the color by 10%, you get 97.1054, 0.3433, 0.3795, and if you desaturate by 10%, it is 99.9676, 0.3130, 0.3295.

# Distribution



- Red (100%)
- Green (100%)
- Blue (90%)



- Red (90%)
- Yellow (100%)
- Blue (90%)



- Cyan (0%)
- Magenta (0%)
- Yellow (10%)
- Black (0%)



- Cyan (0%)
- Magenta (0%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 98.4371, 0.3280, 0.3542 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 98.4371, 0.3280, 0.3542 by changing the saturation by 10% instead.




 98.4371, 0.3280,  
0.3542

 98.4371, 0.3280,  
0.3542


555.1109, 0.3214,  
0.3431

 74.9990, 0.3294,  
0.3566

159.0047, 0.3258,  
0.3504

 55.6120, 0.3311,  
0.3596


196.9029, 0.3249,  
0.3489

 39.8919, 0.3333,  
0.3632


240.3899, 0.3241,  
0.3476

 27.4543, 0.3359,  
0.3678

289.8501, 0.3234,  
0.3465

 17.9147, 0.3394,  
0.3739

345.6679, 0.3228,  
0.3455

 10.8888, 0.3440,  
0.3822

408.2278, 0.3223,

 5.9921, 0.3504,

0.3446

0.3941

477.9140, 0.3218,  
0.3438

■ 2.8403, 0.3602,  
0.4129

■ 1.0489, 0.4025,  
0.4776

■ 98.4371, 0.3280,  
0.3542

■ 98.4371, 0.3280,  
0.3542

■ 97.1054, 0.3433,  
0.3795


99.9676, 0.3130,  
0.3295

■ 95.9790, 0.3585,  
0.4047

100.0000, 0.3127,  
0.3290


■ 95.0431, 0.3731,  
0.4288

■ 94.2870, 0.3865,  
0.4509

 93.6991, 0.3980,  
0.4699

 93.2664, 0.4072,  
0.4851

 92.9742, 0.4137,  
0.4959

 92.8048, 0.4177,  
0.5024

 92.7297, 0.4194,  
0.5052

# Harmonies

## Analogous

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



98.4371, 0.3379, 0.3503



98.4371, 0.3280, 0.3542



98.4371, 0.3141, 0.3511

# Triad

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



98.4371, 0.3280, 0.3542



98.4371, 0.2852, 0.3162



98.4371, 0.3252, 0.3168

# Complementary

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



98.4371, 0.3280, 0.3542



79.9190, 0.2967, 0.3025

# 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.



98.4371, 0.3108, 0.3082



98.4371, 0.3280, 0.3542



98.4371, 0.2880, 0.3076

# Square

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



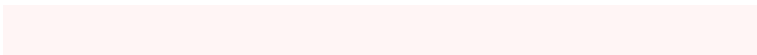
98.4371, 0.3280, 0.3542



98.4371, 0.2896, 0.3287



98.4371, 0.2972, 0.3048

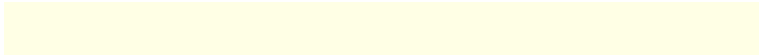


98.4371, 0.3363, 0.3286

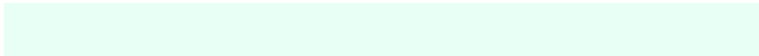


# Rectangle

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



98.4371, 0.3280, 0.3542



98.4371, 0.3045, 0.3454



98.4371, 0.2972, 0.3048



98.4371, 0.3205, 0.3134

# Sweetspot

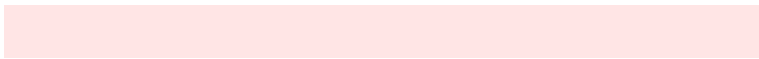
The Sweet Spot groups the original color and five complimentary colors.



98.4318, 0.3280, 0.3542



99.5155, 0.3171, 0.3363



82.9782, 0.3305, 0.3286



21.2734, 0.3183, 0.3383



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

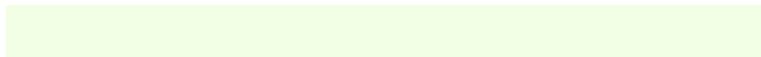
The Same Dimension uses a secret algorithm to generate beautiful new colors.



98.4318, 0.3280, 0.3542



98.1775, 0.3307, 0.3587



96.1308, 0.3199, 0.3548



21.0898, 0.3269, 0.3525



48.4537, 0.4194, 0.5052



4.7181, 0.4194, 0.5052



# Inverse Universe

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



79.9190, 0.2967, 0.3025



76.6630, 0.2936, 0.2974



82.0574, 0.3049, 0.3031



17.3787, 0.2978, 0.3044



3.7739, 0.1500, 0.0600

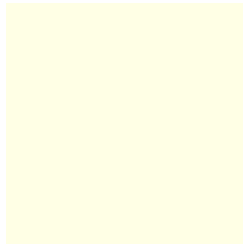


0.3678, 0.1500, 0.0601



# Previews

## White Background



This preview shows how the Yxy color 98.4371, 0.3280, 0.3542 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

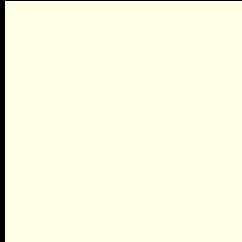
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 98.4371, 0.3280, 0.3542 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

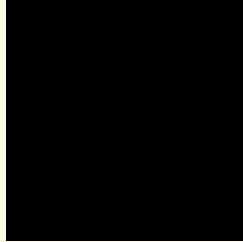
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 98.4371, 0.3280, 0.3542**

## **Background**



This preview shows how black text looks on a background with the Yxy color 98.4371, 0.3280, 0.3542.

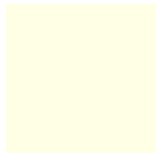


This preview shows how white text looks on a background with the Yxy color 98.4371, 0.3280, 0.3542.

# 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

98.4371, 0.3280, 0.3542



### Protanopia

98.3501, 0.3163, 0.3328

### Deuteranopia

98.5388, 0.3145, 0.3300

## Tritanopia

98.5414, 0.3122, 0.3271

# Trichromacy



**Original Color**

98.4371, 0.3280, 0.3542



**Protanomaly**

98.5544, 0.3203, 0.3405

**Deuteranomaly**

98.6753, 0.3192, 0.3386

**Tritanomaly**

98.6083, 0.3174, 0.3367

# Monochromacy



**Original Color**

98.4371, 0.3280, 0.3542



**Achromatopsia**

97.3445, 0.3127, 0.3290



**Achromatomaly**

97.6649, 0.3180, 0.3377

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 98.4371, 0.3280, 0.3542 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, 229)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 229)  
}
```

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, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 229) }
```

## Border

The CSS property to change the border of an element to Yxy 98.4371, 0.3280, 0.3542 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, 229) }
```

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

```
.border{ border-color:rgb(255, 255, 229) }
```

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, 229) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 229);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
229) }
```



# Background

The CSS property to change the background color of an element to Yxy 98.4371, 0.3280, 0.3542 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, 229) }
```

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

```
.background{ background-color: rgb(255,  
255, 229) }
```

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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