

# Converting Colors

$Yxy(87.3109, 0.3392, 0.4018)$

Have a look what the booklet for  
Yxy(87.3109, 0.3392, 0.4018)  
contains.

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# Color

**Yxy(87.3775, 0.3395, 0.4021)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E3F9B4
RGB	227, 249, 180
RGB Percent	89%, 98%, 71%
CMY	0.1101, 0.0234, 0.2942
CMYK	0.09, 0.00, 0.28, 0.02
HSL	79°, 85%, 84%
HSV	79°, 28%, 98%
XYZ	73.7743, 87.3775, 56.1511
YIQ	234.5560, 9.0370, -26.1230

# Conversions

## Conversions Part 2

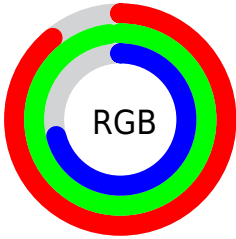
<b>Format</b>	<b>Color</b>
<b>RYB</b>	180, 249, 202
Decimal	14940596
CIELab	94.90, -18.50, 30.82
CIELCh	95, 35.947, 120.979
Yxy	87.3775, 0.3395, 0.4021
Android (android.graphics.Color)	4293130676 (0xFFE3F9B4)
YUV	234.5560, -26.8961, -6.6266
Hunter-Lab	93.4759, -22.7047, 29.8176

# Details

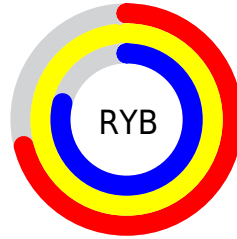
The Yxy color  $87.3775, 0.3395, 0.4021$  is a light color, and the websafe version is hex `FFFFCC`. A complement of this color would be  $52.0490, 0.2799, 0.2521$ , and the grayscale version is  $82.9189, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $98.8361, 0.3238, 0.3473$ , and  $48.3302, 0.3442, 0.4190$  is the 20% darker color. If you saturate the color by 10%, you get  $85.1901, 0.3484, 0.4301$ , and if you desaturate by 10%, it is  $89.8149, 0.3299, 0.3746$ .

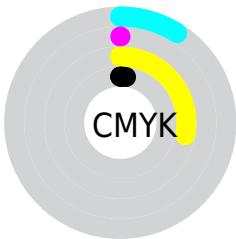
# Distribution



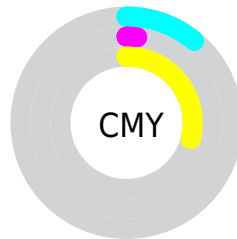
- Red (89%)
- Green (98%)
- Blue (71%)



- Red (71%)
- Yellow (98%)
- Blue (79%)



- Cyan (9%)
- Magenta (0%)
- Yellow (28%)
- Black (2%)




- Cyan (11%)
- Magenta (2%)
- Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.3775, 0.3395, 0.4021 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 87.3775, 0.3395, 0.4021 by changing the saturation by 10% instead.




 87.3775, 0.3395,  
0.4021

 87.3775, 0.3395,  
0.4021


519.4625, 0.3282,  
0.3684

 65.8077, 0.3418,  
0.4097


 143.6902, 0.3358,  
0.3905

 48.1163, 0.3445,  
0.4190


179.2018, 0.3343,  
0.3860

 33.9190, 0.3476,  
0.4307


220.1295, 0.3330,  
0.3820

 22.8314, 0.3513,  
0.4457

266.8576, 0.3318,  
0.3786

 14.4690, 0.3555,  
0.4657

319.7706, 0.3308,  
0.3756

 8.4476, 0.3600,  
0.4933


379.2528, 0.3298,


 4.3827, 0.3635,


0.3730


0.5334


445.6887, 0.3290,  
0.3706


 1.8898, 0.3777,  
0.6223


 0.5423, 0.1052,  
0.8948

 87.3775, 0.3395,  
0.4021

 87.3775, 0.3395,  
0.4021


 85.1901, 0.3484,  
0.4301


 89.8149, 0.3299,  
0.3746


 83.2306, 0.3563,  
0.4577

 92.5007, 0.3202,  
0.3482

 81.4914, 0.3624,  
0.4836

 95.4478, 0.3105,  
0.3235

 79.9598, 0.3665,  
0.5065

 96.2474, 0.3130,  
0.3233

■ 78.6214, 0.3681,  
0.5253

■ 77.4595, 0.3672,  
0.5393

■ 76.4520, 0.3639,  
0.5483

■ 76.2368, 0.3630,  
0.5500

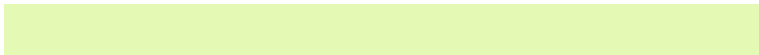
# Harmonies

## Analogous

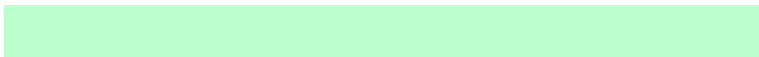
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



87.3775, 0.3743, 0.3953



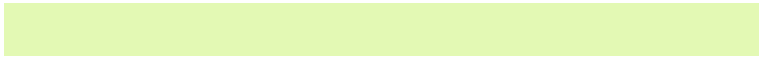
87.3775, 0.3395, 0.4021



87.3775, 0.2990, 0.3858

# Triad

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



87.3775, 0.3395, 0.4021



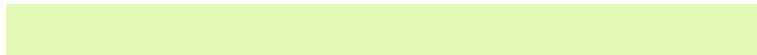
87.3775, 0.2382, 0.2802



87.3775, 0.3624, 0.3068

# Complementary

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



87.3775, 0.3395, 0.4021



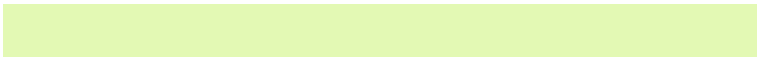
52.0490, 0.2799, 0.2521

# Split Complementary

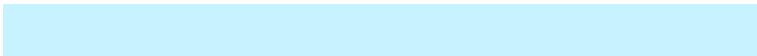
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



87.3775, 0.3227, 0.2805



87.3775, 0.3395, 0.4021



87.3775, 0.2524, 0.2646

# Square

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



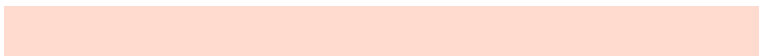
87.3775, 0.3395, 0.4021



87.3775, 0.2421, 0.3111



87.3775, 0.2825, 0.2653



87.3775, 0.3888, 0.3391

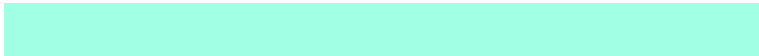


# Rectangle

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



87.3775, 0.3395, 0.4021



87.3775, 0.2743, 0.3637



87.3775, 0.2825, 0.2653



87.3775, 0.3500, 0.2971

# Sweetspot

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



87.3813, 0.3395, 0.4021



97.5375, 0.3205, 0.3490



65.6110, 0.3673, 0.3523



20.7822, 0.3219, 0.3528



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

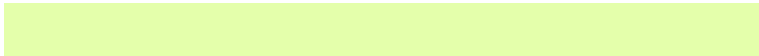


# Same Dimension

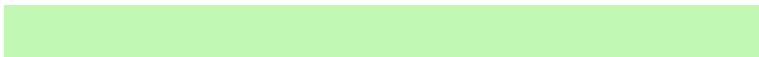
The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.3813, 0.3395, 0.4021



90.9588, 0.3444, 0.4170



82.3534, 0.3168, 0.4075



19.8959, 0.3219, 0.3528



40.8784, 0.3639, 0.5493



3.8429, 0.3706, 0.5439



# Inverse Universe

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



52.0490, 0.2799, 0.2521



48.2660, 0.2722, 0.2354



57.3761, 0.3060, 0.2577



16.9126, 0.3029, 0.3048



4.6344, 0.1726, 0.0725

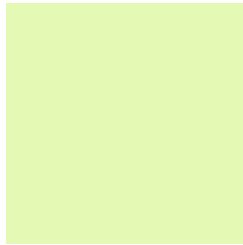


0.4835, 0.1853, 0.0794



# Previews

## White Background



This preview shows how the Yxy color 87.3775, 0.3395, 0.4021 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

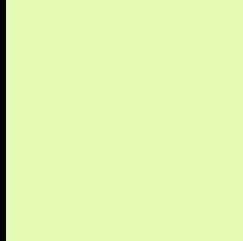
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.3775, 0.3395, 0.4021 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

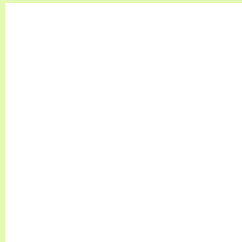
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 87.3775, 0.3395, 0.4021**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.3775, 0.3395, 0.4021.

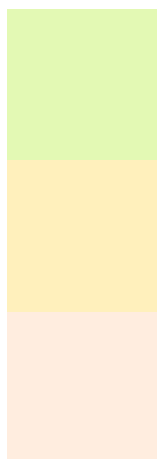


This preview shows how white text looks on a background with the Yxy color 87.3775, 0.3395, 0.4021.

# 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

87.3775, 0.3395, 0.4021

### Protanopia

87.2110, 0.3561, 0.3812

### Deuteranopia

87.1561, 0.3338, 0.3429



## Tritanopia

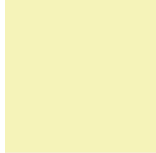
87.1301, 0.3025, 0.3131

# Trichromacy



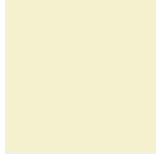
## Original Color

87.3775, 0.3395, 0.4021



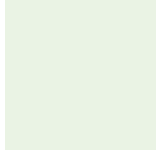
## Protanomaly

87.0164, 0.3502, 0.3884



## Deuteranomaly

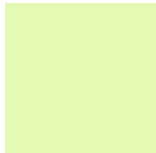
86.8281, 0.3366, 0.3637



## Tritanomaly

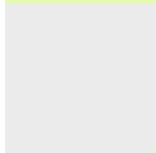
87.1950, 0.3159, 0.3444

# Monochromacy



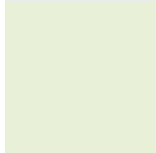
## Original Color

87.3775, 0.3395, 0.4021



## Achromatopsia

83.0770, 0.3127, 0.3290



## Achromatomaly

84.3823, 0.3228, 0.3551

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.3775, 0.3395, 0.4021 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(227, 249, 180)` looks like.

```
.text, #text, p{  
    color:rgb(227, 249, 180)  
}
```

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(227, 249, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 249, 180) }
```

## Border

The CSS property to change the border of an element to Yxy 87.3775, 0.3395, 0.4021 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(227, 249, 180) }
```

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

```
.border{ border-color:rgb(227, 249, 180) }
```

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

Here you see how a box with a 4 pixel rgb(227, 249, 180) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 249, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 249, 180);  
box-shadow:4px 4px 4px 4px rgb(227, 249,  
180) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.3775, 0.3395, 0.4021 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 249, 180) }
```

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

```
.background{ background-color: rgb(227,  
249, 180) }
```

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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