

# Converting Colors

$Y_{xy}(100.0000, 0.3618, 0.4325)$

Have a look what the booklet for  
Yxy(100.0000, 0.3618, 0.4325)  
contains.

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# **Color**

**Yxy(93.9797, 0.3646, 0.4245)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F8FF9F
RGB	248, 255, 159
RGB Percent	97%, 100%, 62%
CMY	0.0276, 0.0000, 0.3764
CMYK	0.03, 0.00, 0.38, 0.00
HSL	64°, 100%, 81%
HSV	64°, 38%, 100%
XYZ	80.7185, 93.9797, 46.6910
YIQ	241.9630, 26.6440, -31.3400

# Conversions

## Conversions Part 2

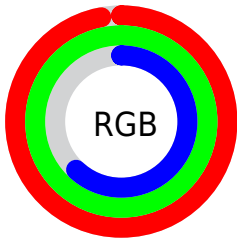
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	159, 255, 166
Decimal	16318367
CIE Lab	97.62, -16.26, 45.08
CIE LCh	98, 47.928, 109.836
Yxy	93.9797, 0.3646, 0.4245
Android (android.graphics.Color)	4294508447 (0xFF8FF9F)
YUV	241.9630, -40.9008, 5.2944
Hunter-Lab	96.9431, -21.0247, 39.3042

# Details

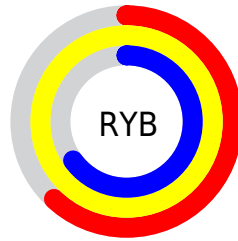
The Yxy color **93.9797, 0.3646, 0.4245** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **40.1338, 0.2480, 0.2155**, and the grayscale version is **89.0657, 0.3127, 0.3290**.

A 20% lighter version of the original color is **97.6863, 0.3364, 0.3681**, and **52.3759, 0.3737, 0.4445** is the 20% darker color. If you saturate the color by 10%, you get **92.8358, 0.3770, 0.4483**, and if you desaturate by 10%, it is **95.2943, 0.3511, 0.3992**.

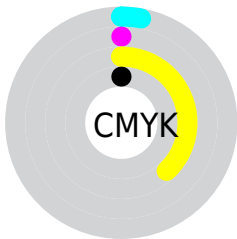
# Distribution



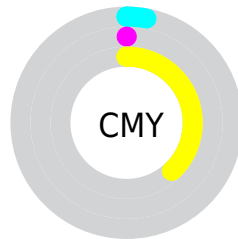
- Red (97%)
- Green (100%)
- Blue (62%)



- Red (62%)
- Yellow (100%)
- Blue (65%)



- Cyan (3%)
- Magenta (0%)
- Yellow (38%)
- Black (0%)




- Cyan (3%)
- Magenta (0%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 93.9797, 0.3646, 0.4245 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 93.9797, 0.3646, 0.4245 by changing the saturation by 10% instead.




 93.9797, 0.3646,  
0.4245

 93.9797, 0.3646,  
0.4245


540.8934, 0.3430,  
0.3817

 71.2861, 0.3689,  
0.4338


 152.8543, 0.3576,  
0.4100

 52.5757, 0.3738,  
0.4449


 189.8040, 0.3548,  
0.4043

 37.4641, 0.3794,  
0.4585

232.2745, 0.3523,  
0.3993

 25.5671, 0.3859,  
0.4754

280.6503, 0.3500,  
0.3949

 16.5000, 0.3929,  
0.4966

335.3157, 0.3480,  
0.3911

 9.8787, 0.3998,  
0.5235

396.6551, 0.3462,

 5.3186, 0.4122,

0.3876

0.5688

465.0528, 0.3445,  
0.3845

■ 2.4354, 0.3994,  
0.6006

■ 0.8440, 0.3244,  
0.6756

■ 93.9797, 0.3646,  
0.4245

■ 93.9797, 0.3646,  
0.4245

■ 92.8358, 0.3770,  
0.4483

■ 95.2943, 0.3511,  
0.3992

■ 91.8742, 0.3877,  
0.4696

■ 96.8130, 0.3372,  
0.3734

■ 91.0748, 0.3962,  
0.4874

■ 98.5376, 0.3232,  
0.3479

■ 90.4232, 0.4021,  
0.5009

100.0000, 0.3127,  
0.3290

■ 89.9027, 0.4054,  
0.5100

■ 89.4909, 0.4063,  
0.5148

■ 89.4020, 0.4063,  
0.5156

# Harmonies

## Analogous

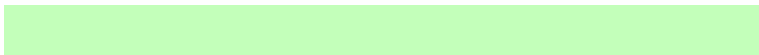
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



93.9797, 0.4039, 0.4037



93.9797, 0.3646, 0.4245



93.9797, 0.3132, 0.4161

# Triad

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



93.9797, 0.3646, 0.4245



93.9797, 0.2170, 0.2776



93.9797, 0.3590, 0.2867

# Complementary

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



93.9797, 0.3646, 0.4245



40.1338, 0.2480, 0.2155

# 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.



93.9797, 0.3049, 0.2584



93.9797, 0.3646, 0.4245



93.9797, 0.2265, 0.2511

# Square

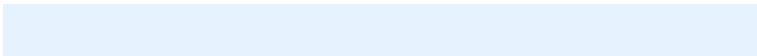
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



93.9797, 0.3646, 0.4245



93.9797, 0.2299, 0.3231



93.9797, 0.2572, 0.2454



93.9797, 0.4022, 0.3249

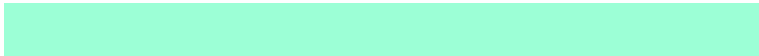


# Rectangle

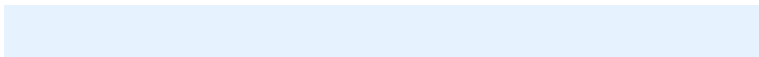
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



93.9797, 0.3646, 0.4245



93.9797, 0.2794, 0.3925



93.9797, 0.2572, 0.2454



93.9797, 0.3413, 0.2758

# Sweetspot

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



93.9720, 0.3646, 0.4245



97.9350, 0.3279, 0.3563



50.8227, 0.4035, 0.3360



20.9115, 0.3298, 0.3598



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

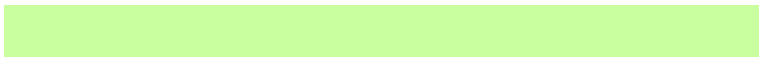
The Same Dimension uses a secret algorithm to generate beautiful new colors.



93.9720, 0.3646, 0.4245



93.1185, 0.3738, 0.4422



86.3868, 0.3327, 0.4354



21.0189, 0.3258, 0.3526



46.7431, 0.4065, 0.5154



4.5707, 0.4081, 0.5142



# Inverse Universe

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



40.1338, 0.2480, 0.2155



32.4080, 0.2328, 0.1896



46.2275, 0.2834, 0.2258



17.4414, 0.2990, 0.3045



3.8662, 0.1522, 0.0612

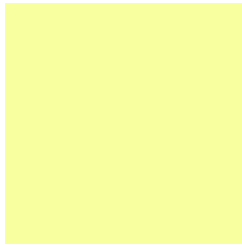


0.3975, 0.1572, 0.0640



# Previews

## White Background



This preview shows how the Yxy color 93.9797, 0.3646, 0.4245 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

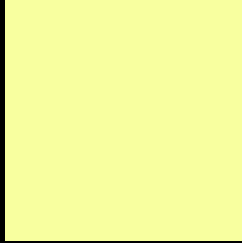
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 93.9797, 0.3646, 0.4245 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

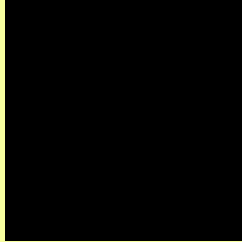
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 93.9797, 0.3646, 0.4245**

## **Background**



This preview shows how black text looks on a background with the Yxy color 93.9797, 0.3646, 0.4245.

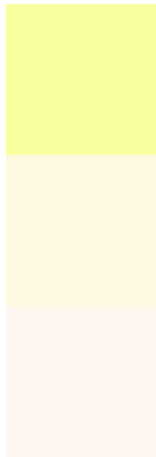


This preview shows how white text looks on a background with the Yxy color 93.9797, 0.3646, 0.4245.

# 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

93.9797, 0.3646, 0.4245

### Protanopia

93.8310, 0.3312, 0.3515

### Deuteranopia

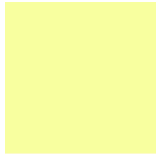
94.0135, 0.3227, 0.3368



## Tritanopia

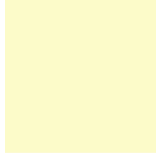
93.5956, 0.3125, 0.3194

# Trichromacy



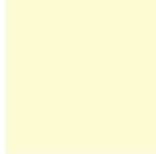
## Original Color

93.9797, 0.3646, 0.4245



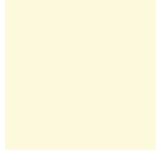
## Protanomaly

93.9069, 0.3435, 0.3787



## Deuteranomaly

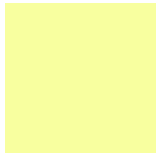
93.7198, 0.3382, 0.3687



## Tritanomaly

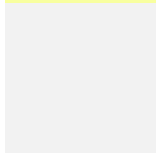
93.6141, 0.3321, 0.3576

# Monochromacy



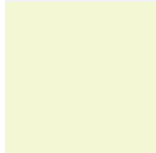
## Original Color

93.9797, 0.3646, 0.4245



## Achromatopsia

88.7923, 0.3127, 0.3290



## Achromatomaly

90.5081, 0.3320, 0.3644

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 93.9797, 0.3646, 0.4245 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(248, 255, 159)` looks like.

```
.text, #text, p{  
    color:rgb(248, 255, 159)  
}
```

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(248, 255, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(248, 255, 159) }
```

## Border

The CSS property to change the border of an element to Yxy 93.9797, 0.3646, 0.4245 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(248, 255, 159) }
```

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

```
.border{ border-color:rgb(248, 255, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(248, 255, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(248, 255, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(248, 255, 159);  
box-shadow:4px 4px 4px 4px rgb(248, 255,  
159) }
```



# Background

The CSS property to change the background color of an element to Yxy 93.9797, 0.3646, 0.4245 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(248, 255, 159) }
```

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

```
.background{ background-color: rgb(248,  
255, 159) }
```

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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