

# Converting Colors

$Y_{xy}(91.3500, 0.3585, 0.4336)$

Have a look what the booklet for  
Yxy(91.3500, 0.3585, 0.4336)  
contains.

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# Color

**Yxy(91.3123, 0.3583, 0.4337)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E AFF 99
RGB	234, 255, 153
RGB Percent	92%, 100%, 60%
CMY	0.0824, 0.0000, 0.3999
CMYK	0.08, 0.00, 0.40, 0.00
HSL	72°, 100%, 80%
HSV	72°, 40%, 100%
XYZ	75.4374, 91.3123, 43.7928
YIQ	237.0930, 20.2260, -36.1740

# Conversions

## Conversions Part 2

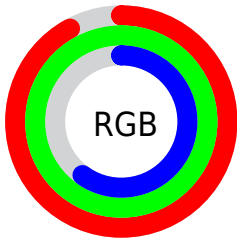
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 255, 174
Decimal	15400857
CIELab	96.54, -22.15, 46.40
CIElCh	97, 51.415, 115.513
Yxy	91.3123, 0.3583, 0.4337
Android (android.graphics.Color)	4293590937 (0xFFEAF99)
YUV	237.0930, -41.4578, -2.7126
Hunter-Lab	95.5575, -26.3096, 39.7183

# Details

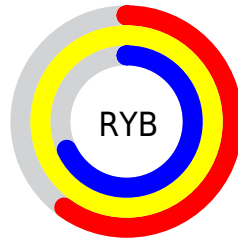
The Yxy color **91.3123, 0.3583, 0.4337** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **39.0118, 0.2528, 0.2102**, and the grayscale version is **85.0731, 0.3127, 0.3290**.

A 20% lighter version of the original color is **97.3834, 0.3400, 0.3741**, and **50.6554, 0.3661, 0.4565** is the 20% darker color. If you saturate the color by 10%, you get **89.6784, 0.3679, 0.4592**, and if you desaturate by 10%, it is **93.1469, 0.3475, 0.4070**.

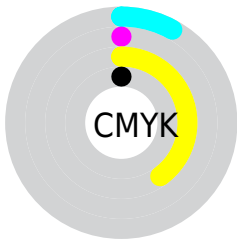
# Distribution



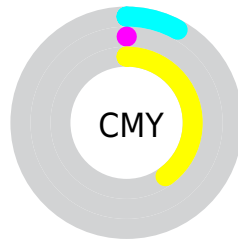
- Red (92%)
- Green (100%)
- Blue (60%)



- Red (60%)
- Yellow (100%)
- Blue (68%)



- Cyan (8%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (8%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 91.3123, 0.3583, 0.4337 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 91.3123, 0.3583, 0.4337 by changing the saturation by 10% instead.





 91.3123, 0.3583,  
0.4337


 91.3123, 0.3583,  
0.4337


532.2905, 0.3398,  
0.3861

 69.0696, 0.3618,  
0.4442


 149.1599, 0.3524,  
0.4175

 50.7684, 0.3658,  
0.4568

 185.5336, 0.3500,  
0.4111

 36.0243, 0.3702,  
0.4723


227.3863, 0.3478,  
0.4055

 24.4530, 0.3750,  
0.4918

275.1026, 0.3459,  
0.4007

 15.6700, 0.3796,  
0.5165

329.0668, 0.3441,  
0.3964

 9.2909, 0.3826,  
0.5481

389.6632, 0.3425,

 4.9314, 0.3925,

0.3926

0.6075

457.2763, 0.3411,  
0.3892

■ 2.2071, 0.3621,  
0.6379

■ 0.7239, 0.1692,  
0.8308

■ 91.3123, 0.3583,  
0.4337

■ 91.3123, 0.3583,  
0.4337

■ 89.6784, 0.3679,  
0.4592

■ 93.1469, 0.3475,  
0.4070

■ 88.2419, 0.3757,  
0.4823

■ 95.2017, 0.3360,  
0.3802

■ 86.9870, 0.3812,  
0.5020

■ 97.4836, 0.3243,  
0.3540

■ 85.8985, 0.3842,  
0.5173

100.0000, 0.3127,  
0.3290

■ 84.9587, 0.3845,  
0.5280

■ 84.1384, 0.3826,  
0.5344

■ 84.1378, 0.3826,  
0.5344

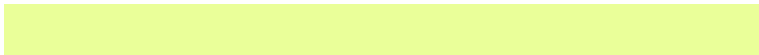
# Harmonies

## Analogous

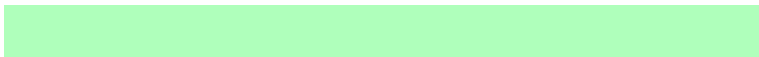
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



91.3123, 0.4046, 0.4153



91.3123, 0.3583, 0.4337



91.3123, 0.3022, 0.4182

# Triad

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



91.3123, 0.3583, 0.4337



91.3123, 0.2100, 0.2660



91.3123, 0.3732, 0.2905

# Complementary

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



91.3123, 0.3583, 0.4337



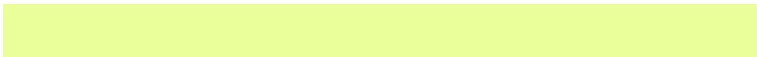
39.0118, 0.2528, 0.2102

# 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.



91.3123, 0.3151, 0.2579



91.3123, 0.3583, 0.4337



91.3123, 0.2246, 0.2423

# Square

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



91.3123, 0.3583, 0.4337



91.3123, 0.2191, 0.3116



91.3123, 0.2613, 0.2405

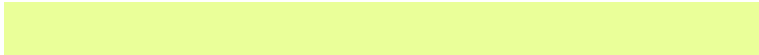


91.3123, 0.4157, 0.3325

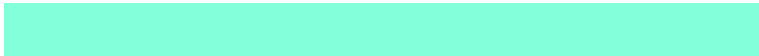


# Rectangle

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



91.3123, 0.3583, 0.4337



91.3123, 0.2669, 0.3886



91.3123, 0.2613, 0.2405



91.3123, 0.3545, 0.2782

# Sweetspot

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



91.3094, 0.3583, 0.4337



97.0068, 0.3266, 0.3591



53.6070, 0.4057, 0.3507



20.6981, 0.3282, 0.3625



0.0000, 0.0000, 0.0000

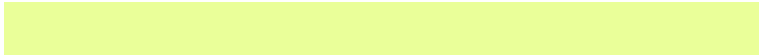


21.4041, 0.3127, 0.3290



# Same Dimension

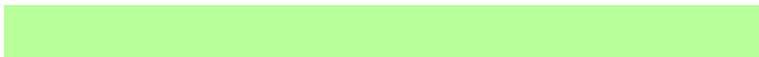
The Same Dimension uses a secret algorithm to generate beautiful new colors.



91.3094, 0.3583, 0.4337



89.9875, 0.3661, 0.4542



83.9631, 0.3250, 0.4460



20.8906, 0.3237, 0.3527



44.0296, 0.3832, 0.5339



4.3324, 0.3875, 0.5305



# Inverse Universe

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



39.0118, 0.2528, 0.2102



31.1376, 0.2378, 0.1831



45.9207, 0.2920, 0.2224



17.5581, 0.3011, 0.3046



4.2122, 0.1602, 0.0656

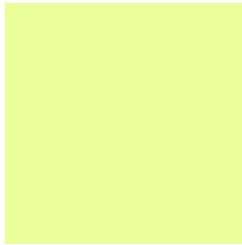


0.4540, 0.1702, 0.0711



# Previews

## White Background



This preview shows how the Yxy color 91.3123, 0.3583, 0.4337 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

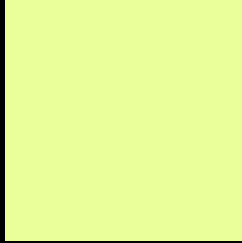
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 91.3123, 0.3583, 0.4337 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 91.3123, 0.3583, 0.4337**

## **Background**



This preview shows how black text looks on a background with the Yxy color 91.3123, 0.3583, 0.4337.

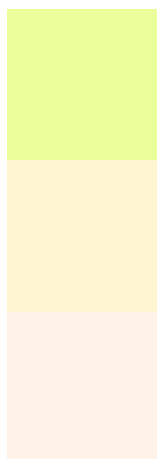


This preview shows how white text looks on a background with the Yxy color 91.3123, 0.3583, 0.4337.

# 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

91.3123, 0.3583, 0.4337

### Protanopia

91.1683, 0.3416, 0.3647

### Deuteranopia

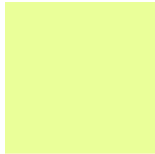
91.1307, 0.3280, 0.3408



## Tritanopia

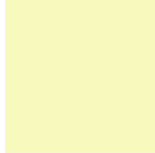
90.9140, 0.3075, 0.3173

# Trichromacy



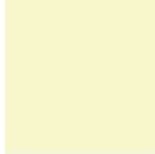
## Original Color

91.3123, 0.3583, 0.4337



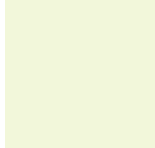
## Protanomaly

91.1996, 0.3478, 0.3896



## Deuteranomaly

90.6075, 0.3396, 0.3734



## Tritanomaly

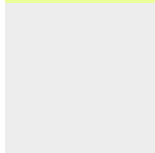
90.4607, 0.3270, 0.3584

# Monochromacy



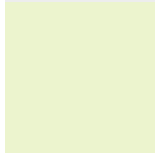
## Original Color

91.3123, 0.3583, 0.4337



## Achromatopsia

84.6873, 0.3127, 0.3290



## Achromatomaly

86.9905, 0.3307, 0.3684

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 91.3123, 0.3583, 0.4337 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(234, 255, 153)` looks like.

```
.text, #text, p{  
    color:rgb(234, 255, 153)  
}
```

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(234, 255, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 255, 153) }
```

## Border

The CSS property to change the border of an element to Yxy 91.3123, 0.3583, 0.4337 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(234, 255, 153) }
```

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

```
.border{ border-color:rgb(234, 255, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 255, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 255, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 255, 153);  
box-shadow:4px 4px 4px 4px rgb(234, 255,  
153) }
```



# Background

The CSS property to change the background color of an element to Yxy 91.3123, 0.3583, 0.4337 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 255, 153) }
```

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

```
.background{ background-color: rgb(234,  
255, 153) }
```

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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