

# Converting Colors

$Y_{xy}(101.9953, 0.3465, 0.4490)$

Have a look what the booklet for  
Yxy(101.9953, 0.3465, 0.4490)  
contains.

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# Color

**Yxy(89.8941, 0.3511, 0.4340)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E1FF9B
RGB	225, 255, 155
RGB Percent	88%, 100%, 61%
CMY	0.1177, 0.0000, 0.3923
CMYK	0.12, 0.00, 0.39, 0.00
HSL	78°, 100%, 80%
HSV	78°, 39%, 100%
XYZ	72.7231, 89.8941, 44.5121
YIQ	234.6300, 14.2200, -37.4600

# Conversions

## Conversions Part 2

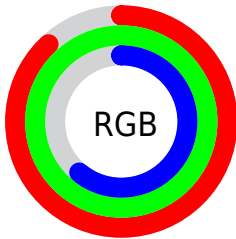
<b>Format</b>	<b>Color</b>
<b>RYB</b>	155, 255, 185
Decimal	14811035
CIELab	95.95, -25.24, 44.59
CIElCh	96, 51.236, 119.514
Yxy	89.8941, 0.3511, 0.4340
Android (android.graphics.Color)	4293001115 (0xFFE1FF9B)
YUV	234.6300, -39.2576, -8.4455
Hunter-Lab	94.8125, -29.0088, 38.5336

# Details

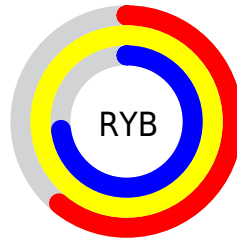
The Yxy color **89.8941, 0.3511, 0.4340** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **40.9621, 0.2611, 0.2149**, and the grayscale version is **83.0718, 0.3127, 0.3290**.

A 20% lighter version of the original color is **97.4831, 0.3388, 0.3721**, and **49.6723, 0.3570, 0.4577** is the 20% darker color. If you saturate the color by 10%, you get **87.9215, 0.3591, 0.4611**, and if you desaturate by 10%, it is **92.0975, 0.3419, 0.4062**.

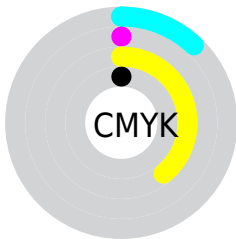
# Distribution



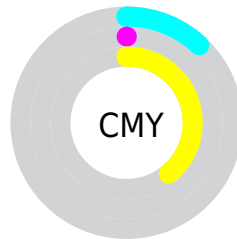
- Red (88%)
- Green (100%)
- Blue (61%)



- Red (61%)
- Yellow (100%)
- Blue (73%)



- Cyan (12%)
- Magenta (0%)
- Yellow (39%)
- Black (0%)




- Cyan (12%)
- Magenta (0%)
- Yellow (39%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.8941, 0.3511, 0.4340 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 89.8941, 0.3511, 0.4340 by changing the saturation by 10% instead.





 89.8941, 0.3511,  
0.4340


 89.8941, 0.3511,  
0.4340


527.6863, 0.3357,  
0.3858

 67.8928, 0.3540,  
0.4447


 147.1913, 0.3463,  
0.4175

 49.8105, 0.3572,  
0.4578


 183.2560, 0.3442,  
0.4110

 35.2629, 0.3606,  
0.4739


224.7773, 0.3424,  
0.4054

 23.8654, 0.3642,  
0.4943

272.1395, 0.3408,  
0.4005

 15.2338, 0.3673,  
0.5206

325.7272, 0.3393,  
0.3961

 8.9837, 0.3685,  
0.5550


385.9246, 0.3380,


 4.7305, 0.3766,


0.3923

0.6220


453.1162, 0.3368,  
0.3889

 2.0900, 0.3412,  
0.6588


 0.6590, 0.0152,  
0.9848


 89.8941, 0.3511,  
0.4340

 89.8941, 0.3511,  
0.4340


 87.9215, 0.3591,  
0.4611


 92.0975, 0.3419,  
0.4062

 86.1752, 0.3653,  
0.4862

 94.5506, 0.3321,  
0.3786

 84.6392, 0.3694,  
0.5082

 97.2613, 0.3220,  
0.3521

 83.2981, 0.3709,  
0.5259

100.0000, 0.3127,  
0.3290

■ 82.1337, 0.3699,  
0.5387

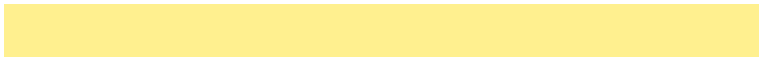
■ 81.1192, 0.3666,  
0.5468

■ 81.0447, 0.3663,  
0.5474

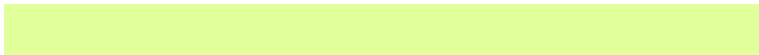
# Harmonies

## Analogous

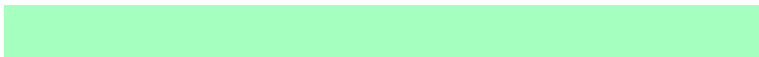
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.8941, 0.3997, 0.4194



89.8941, 0.3511, 0.4340



89.8941, 0.2947, 0.4135

# Triad

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



89.8941, 0.3511, 0.4340



89.8941, 0.2105, 0.2614



89.8941, 0.3803, 0.2956

# Complementary

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



89.8941, 0.3511, 0.4340



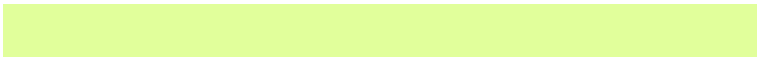
40.9621, 0.2611, 0.2149

# 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.



89.8941, 0.3230, 0.2613



89.8941, 0.3511, 0.4340



89.8941, 0.2282, 0.2407

# Square

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



89.8941, 0.3511, 0.4340



89.8941, 0.2163, 0.3044



89.8941, 0.2676, 0.2416

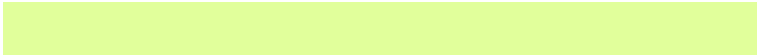


89.8941, 0.4194, 0.3385

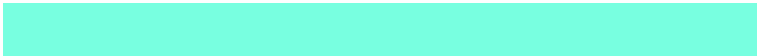


# Rectangle

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



89.8941, 0.3511, 0.4340



89.8941, 0.2605, 0.3815



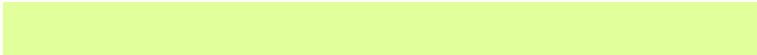
89.8941, 0.2676, 0.2416



89.8941, 0.3622, 0.2829

# Sweetspot

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



89.8915, 0.3511, 0.4340



96.4839, 0.3248, 0.3593



57.6197, 0.3997, 0.3590



20.5746, 0.3261, 0.3627



0.0000, 0.0000, 0.0000

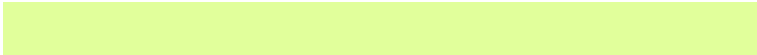


21.4041, 0.3127, 0.3290

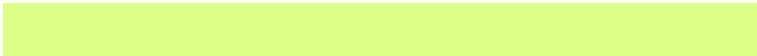


# Same Dimension

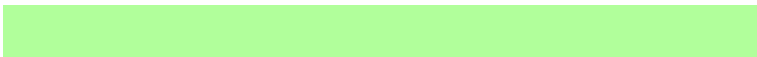
The Same Dimension uses a secret algorithm to generate beautiful new colors.



89.8915, 0.3511, 0.4340



88.3408, 0.3574, 0.4552



83.1902, 0.3197, 0.4453



20.8012, 0.3223, 0.3528



42.4291, 0.3672, 0.5467



4.1881, 0.3733, 0.5418



# Inverse Universe

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



40.9621, 0.2611, 0.2149



33.2593, 0.2481, 0.1895



48.0296, 0.2994, 0.2265



17.6418, 0.3026, 0.3048



4.6534, 0.1700, 0.0710

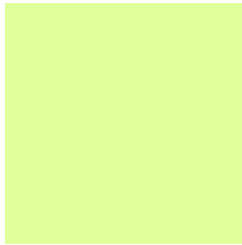


0.5070, 0.1817, 0.0775



# Previews

## White Background



This preview shows how the Yxy color 89.8941, 0.3511, 0.4340 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

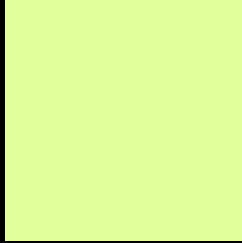
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 89.8941, 0.3511, 0.4340 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

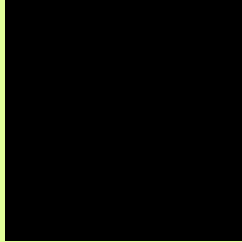
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

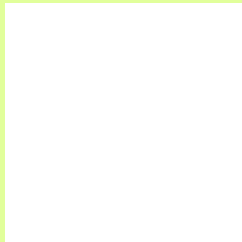
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 89.8941, 0.3511, 0.4340**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.8941, 0.3511, 0.4340.

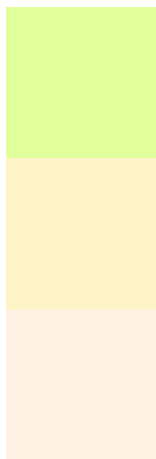


This preview shows how white text looks on a background with the Yxy color 89.8941, 0.3511, 0.4340.

# 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

89.8941, 0.3511, 0.4340

### Protanopia

89.5313, 0.3477, 0.3719

### Deuteranopia

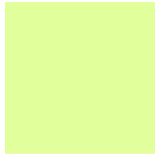
89.7166, 0.3308, 0.3428



## Tritanopia

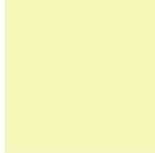
89.8464, 0.3037, 0.3171

# Trichromacy



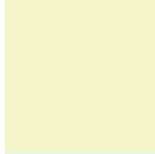
## Original Color

89.8941, 0.3511, 0.4340



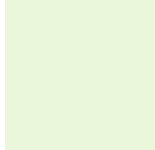
## Protanomaly

89.2153, 0.3493, 0.3933



## Deuteranomaly

89.3617, 0.3389, 0.3748



## Tritanomaly

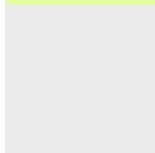
89.2982, 0.3217, 0.3577

# Monochromacy



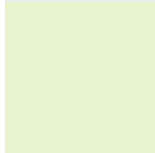
## Original Color

89.8941, 0.3511, 0.4340



## Achromatopsia

83.0770, 0.3127, 0.3290



## Achromatomaly

84.9494, 0.3275, 0.3668

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.8941, 0.3511, 0.4340 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(225, 255, 155)` looks like.

```
.text, #text, p{  
    color:rgb(225, 255, 155)  
}
```

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(225, 255, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 255, 155) }
```

## Border

The CSS property to change the border of an element to Yxy 89.8941, 0.3511, 0.4340 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(225, 255, 155) }
```

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

```
.border{ border-color:rgb(225, 255, 155) }
```

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

Here you see how a box with a 4 pixel rgb(225, 255, 155) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 255, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 255, 155);  
box-shadow:4px 4px 4px 4px rgb(225, 255,  
155) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.8941, 0.3511, 0.4340 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 255, 155) }
```

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

```
.background{ background-color: rgb(225,  
255, 155) }
```

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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