

# Converting Colors

$Y_{xy}(112.3918, 0.3184, 0.4133)$

Have a look what the booklet for  
Yxy(112.3918, 0.3184, 0.4133)  
contains.

<b>Yxy(90.9999, 0.3213, 0.3850)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(90.9999, 0.3213, 0.3850)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCFFCA
RGB	220, 255, 202
RGB Percent	86%, 100%, 79%
CMY	0.1371, 0.0000, 0.2080
CMYK	0.14, 0.00, 0.21, 0.00
HSL	100°, 100%, 90%
HSV	100°, 21%, 100%
XYZ	75.9436, 90.9999, 69.4199
YIQ	238.4930, -3.8470, -23.9030

# Conversions

## Conversions Part 2

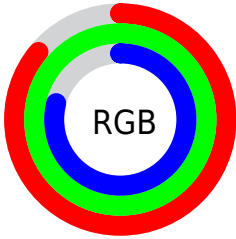
Format	Color
<a href="#">RYB</a>	<a href="#">202, 255, 237</a>
Decimal	<a href="#">14483402</a>
CIELab	<a href="#">96.41, -20.56, 21.67</a>
CIElCh	<a href="#">96, 29.874, 133.486</a>
Yxy	<a href="#">90.9999, 0.3213, 0.3850</a>
Android (android.graphics.Color)	<a href="#">4292673482 (0xFFDCFFCA)</a>
YUV	<a href="#">238.4930, -17.9910, -16.2184</a>
Hunter-Lab	<a href="#">95.3939, -24.8345, 23.6293</a>

# Details

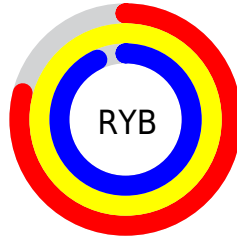
The Yxy color  $90.9999, 0.3213, 0.3850$  is a light color, and the websafe version is hex `CCFFCC`. A complement of this color would be  $67.4379, 0.3020, 0.2750$ , and the grayscale version is  $86.0533, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $50.5256, 0.3228, 0.3973$  is the 20% darker color. If you saturate the color by 10%, you get  $87.4015, 0.3249, 0.4156$ , and if you desaturate by 10%, it is  $95.0693, 0.3173, 0.3567$ .

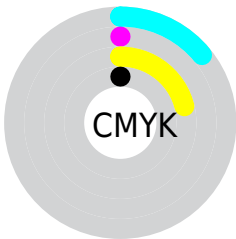
# Distribution



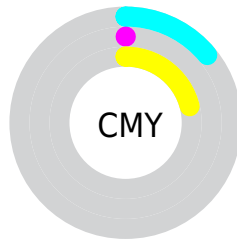
- Red (86%)
- Green (100%)
- Blue (79%)



- Red (79%)
- Yellow (100%)
- Blue (93%)



- Cyan (14%)
- Magenta (0%)
- Yellow (21%)
- Black (0%)




- Cyan (14%)
- Magenta (0%)
- Yellow (21%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.9999, 0.3213, 0.3850 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 90.9999, 0.3213, 0.3850 by changing the saturation by 10% instead.



 90.9999, 0.3213,  
0.3850

 90.9999, 0.3213,  
0.3850

531.2781, 0.3179,  
0.3593

 68.8103, 0.3219,  
0.3908


148.7265, 0.3202,  
0.3761

 50.5572, 0.3226,  
0.3979


185.0323, 0.3198,  
0.3727

 35.8563, 0.3234,  
0.4069


226.8122, 0.3194,  
0.3697

 24.3233, 0.3243,  
0.4185

274.4507, 0.3191,  
0.3671

 15.5736, 0.3251,  
0.4342

328.3322, 0.3187,  
0.3648

 9.2229, 0.3257,  
0.4562

388.8409, 0.3184,

 4.8869, 0.3251,

0.3628

0.4893

456.3615, 0.3182,  
0.3609

■ 2.1810, 0.3272,  
0.5550

■ 0.7096, 0.1957,  
0.8043

■ 90.9999, 0.3213,  
0.3850

■ 90.9999, 0.3213,  
0.3850

■ 87.4015, 0.3249,  
0.4156

■ 95.0693, 0.3173,  
0.3567

■ 84.2449, 0.3278,  
0.4476

■ 99.6146, 0.3131,  
0.3309

■ 81.5153, 0.3296,  
0.4799

■ 99.9977, 0.3127,  
0.3290

■ 79.1924, 0.3301,  
0.5109

■ 77.2542, 0.3289,  
0.5387

■ 75.6761, 0.3260,  
0.5613

■ 74.4299, 0.3215,  
0.5775

■ 73.5407, 0.3166,  
0.5868

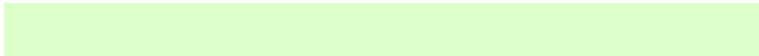
# Harmonies

## Analogous

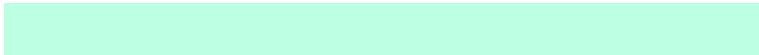
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



90.9999, 0.3529, 0.3877



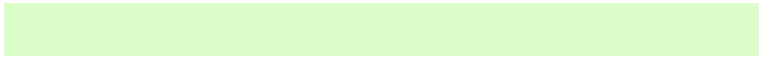
90.9999, 0.3213, 0.3850



90.9999, 0.2886, 0.3645

# Triad

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



90.9999, 0.3213, 0.3850



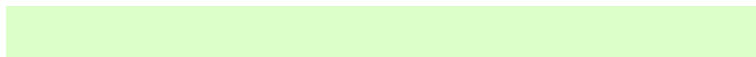
90.9999, 0.2541, 0.2819



90.9999, 0.3642, 0.3218

# Complementary

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



90.9999, 0.3213, 0.3850



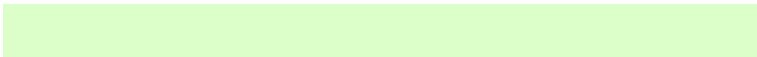
67.4379, 0.3020, 0.2750

# Split Complementary

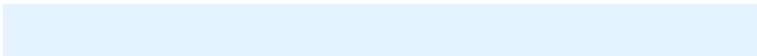
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



90.9999, 0.3353, 0.2970



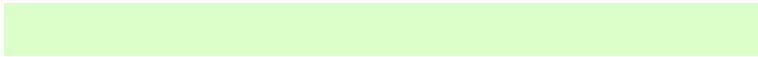
90.9999, 0.3213, 0.3850



90.9999, 0.2720, 0.2742

# Square

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



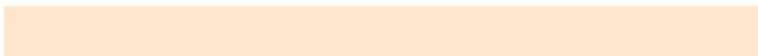
90.9999, 0.3213, 0.3850



90.9999, 0.2509, 0.3029



90.9999, 0.3013, 0.2799

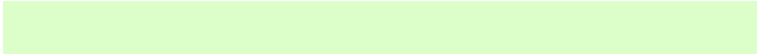


90.9999, 0.3787, 0.3495



# Rectangle

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



90.9999, 0.3213, 0.3850



90.9999, 0.2704, 0.3442



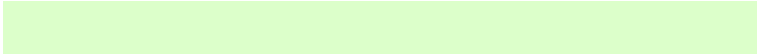
90.9999, 0.3013, 0.2799



90.9999, 0.3558, 0.3129

# Sweetspot

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



91.0038, 0.3213, 0.3850



97.1908, 0.3153, 0.3440



85.7654, 0.3477, 0.3636



20.7397, 0.3155, 0.3457



0.0000, 0.0000, 0.0000

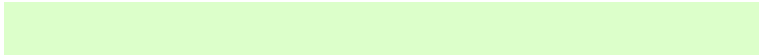


21.4041, 0.3127, 0.3290

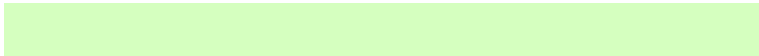


# Same Dimension

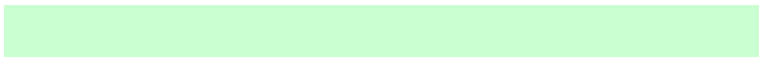
The Same Dimension uses a secret algorithm to generate beautiful new colors.



91.0038, 0.3213, 0.3850



89.4363, 0.3229, 0.3976



88.7197, 0.3056, 0.3780



20.4691, 0.3167, 0.3532



38.5014, 0.3177, 0.5859



3.8062, 0.3263, 0.5791



# Inverse Universe

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



67.4379, 0.3020, 0.2750



61.9593, 0.2994, 0.2634



70.2049, 0.3207, 0.2845



17.9722, 0.3083, 0.3052



8.2120, 0.2364, 0.1076

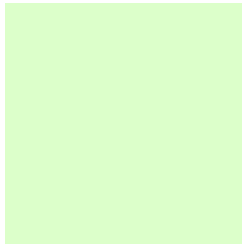


0.8599, 0.2461, 0.1129



# Previews

## White Background



This preview shows how the Yxy color 90.9999, 0.3213, 0.3850 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

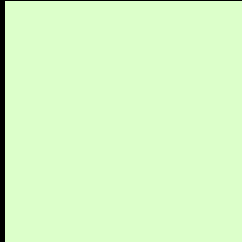
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 90.9999, 0.3213, 0.3850 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

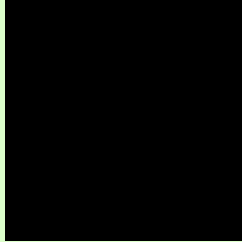
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

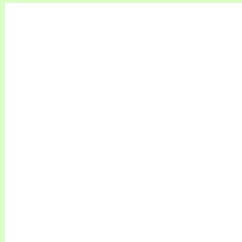
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 90.9999, 0.3213, 0.3850**

## **Background**



This preview shows how black text looks on a background with the Yxy color 90.9999, 0.3213, 0.3850.

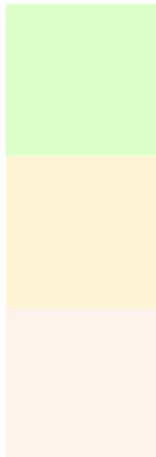


This preview shows how white text looks on a background with the Yxy color 90.9999, 0.3213, 0.3850.

# 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

90.9999, 0.3213, 0.3850

### Protanopia

90.6645, 0.3405, 0.3617

### Deuteranopia

90.7624, 0.3256, 0.3359



## Tritanopia

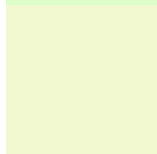
90.7020, 0.3024, 0.3191

# Trichromacy



## Original Color

90.9999, 0.3213, 0.3850



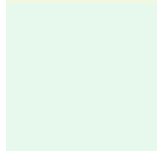
## Protanomaly

90.5661, 0.3330, 0.3697



## Deuteranomaly

90.7265, 0.3239, 0.3532



## Tritanomaly

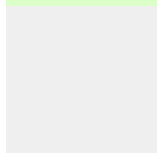
90.7964, 0.3089, 0.3422

# Monochromacy



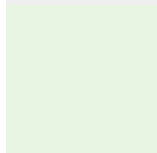
## Original Color

90.9999, 0.3213, 0.3850



## Achromatopsia

86.3157, 0.3127, 0.3290



## Achromatomaly

87.9516, 0.3157, 0.3485

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  90.9999, 0.3213, 0.3850 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(220, 255, 202)` looks like.

```
.text, #text, p{  
    color:rgb(220, 255, 202)  
}
```

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(220, 255, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 255, 202) }
```

## Border

The CSS property to change the border of an element to Yxy 90.9999, 0.3213, 0.3850 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(220, 255, 202) }
```

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

```
.border{ border-color:rgb(220, 255, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 255, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 255, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 255, 202);  
box-shadow:4px 4px 4px 4px rgb(220, 255,  
202) }
```



# Background

The CSS property to change the background color of an element to Yxy 90.9999, 0.3213, 0.3850 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 255, 202) }
```

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

```
.background{ background-color: rgb(220,  
255, 202) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor