

# Converting Colors

$Y_{xy}(100.0000, 0.4016, 0.3983)$

Have a look what the booklet for  
Yxy(100.0000, 0.4016, 0.3983)  
contains.

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# Color

**Yxy(89.9247, 0.3683, 0.4084)**

# Conversions

Conversions Part 1	
Format	Color
Hex	FFF6A6
RGB	255, 246, 166
RGB Percent	100%, 96%, 65%
CMY	0.0000, 0.0353, 0.3489
CMYK	0.00, 0.04, 0.35, 0.00
HSL	54°, 100%, 83%
HSV	54°, 35%, 100%
XYZ	81.0952, 89.9247, 49.1679
YIQ	239.5710, 31.0440, -22.9720

# Conversions

## Conversions Part 2

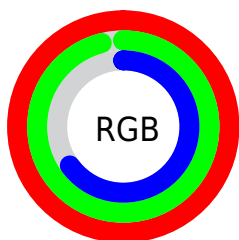
Format	Color
<a href="#">RYB</a>	<a href="#">176, 255, 166</a>
Decimal	<a href="#">16774822</a>
CIELab	<a href="#">95.97, -8.38, 39.60</a>
CIELCh	<a href="#">96, 40.481, 101.947</a>
Yxy	<a href="#">89.9247, 0.3683, 0.4084</a>
Android (android.graphics.Color)	<a href="#">4294964902</a> (0xFFFFF6A6)
YUV	<a href="#">239.5710, -36.2705, 13.5312</a>
Hunter-Lab	<a href="#">94.8286, -13.3012, 35.6386</a>

# Details

The Yxy color **89.9247, 0.3683, 0.4084** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **46.0016, 0.2506, 0.2347**, and the grayscale version is **87.0505, 0.3127, 0.3290**.

A 20% lighter version of the original color is **98.0539, 0.3321, 0.3611**, and **49.8895, 0.3789, 0.4256** is the 20% darker color. If you saturate the color by 10%, you get **87.5130, 0.3842, 0.4301**, and if you desaturate by 10%, it is **92.5309, 0.3519, 0.3856**.

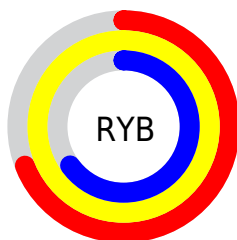
# Distribution



Red (100%)

Green (96%)

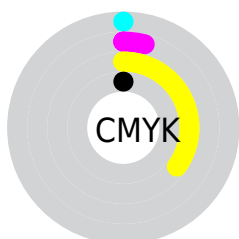
Blue (65%)



Red (69%)

Yellow (100%)

Blue (65%)

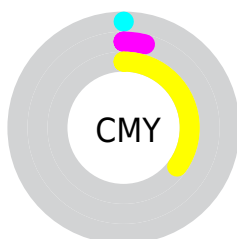


Cyan (0%)

Magenta (4%)

Yellow (35%)

Black (0%)



Cyan (0%)

Magenta (4%)


Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.9247, 0.3683, 0.4084 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 89.9247, 0.3683, 0.4084 by changing the saturation by 10% instead.




 89.9247, 0.3683,  
0.4084


 89.9247, 0.3683,  
0.4084

527.7859, 0.3443,  
0.3730

 67.9182, 0.3733,  
0.4161


 147.2338, 0.3604,  
0.3964

 49.8312, 0.3791,  
0.4253

 183.3052, 0.3572,  
0.3917

 35.2793, 0.3861,  
0.4366


224.8336, 0.3544,  
0.3875

 23.8781, 0.3945,  
0.4506

272.2035, 0.3519,  
0.3839

 15.2432, 0.4046,  
0.4684

325.7993, 0.3497,  
0.3807

 8.9903, 0.4162,  
0.4909


386.0054, 0.3477,


 4.7348, 0.4337,

0.3778

0.5261


453.2061, 0.3460,  
0.3753


 2.0925, 0.4405,  
0.5595


 0.6604, 0.3905,  
0.6095


 89.9247, 0.3683,  
0.4084


 89.9247, 0.3683,  
0.4084


 87.5130, 0.3842,  
0.4301

 92.5309, 0.3519,  
0.3856

 85.3041, 0.3992,  
0.4496

 95.3611, 0.3357,  
0.3625

 83.2791, 0.4124,  
0.4659


 98.4183, 0.3201,  
0.3398

 81.4243, 0.4233,  
0.4782

100.0000, 0.3127,  
0.3290

 79.7236, 0.4314,  
0.4861

 78.1572, 0.4367,  
0.4894

 77.3948, 0.4387,  
0.4899

# Harmonies

## Analogous

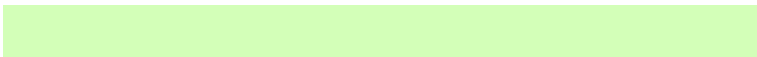
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.9247, 0.3971, 0.3868



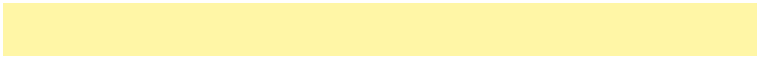
89.9247, 0.3683, 0.4084



89.9247, 0.3257, 0.4075

# Triad

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



89.9247, 0.3683, 0.4084



89.9247, 0.2306, 0.2943



89.9247, 0.3407, 0.2848

# Complementary

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



89.9247, 0.3683, 0.4084



46.0016, 0.2506, 0.2347

# 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.



89.9247, 0.2945, 0.2631



89.9247, 0.3683, 0.4084



89.9247, 0.2338, 0.2662

# Square

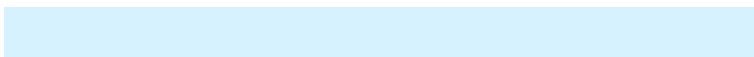
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



89.9247, 0.3683, 0.4084



89.9247, 0.2474, 0.3365



89.9247, 0.2562, 0.2560



89.9247, 0.3814, 0.3167

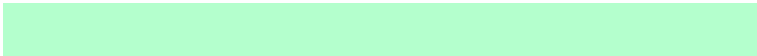


# Rectangle

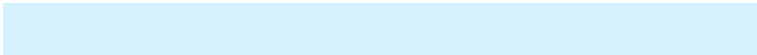
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



89.9247, 0.3683, 0.4084



89.9247, 0.2957, 0.3918



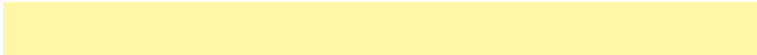
89.9247, 0.2562, 0.2560



89.9247, 0.3252, 0.2761

# Sweetspot

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



89.9182, 0.3683, 0.4084



96.8284, 0.3279, 0.3513



51.6903, 0.3864, 0.3183



20.6339, 0.3301, 0.3545



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

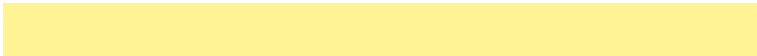


# Same Dimension

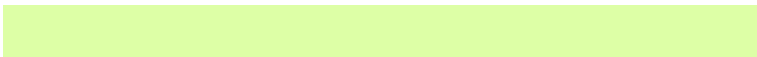
The Same Dimension uses a secret algorithm to generate beautiful new colors.



89.9182, 0.3683, 0.4084



88.1884, 0.3797, 0.4240



89.6290, 0.3423, 0.4235



20.7577, 0.3272, 0.3502



40.5683, 0.4383, 0.4902



4.0370, 0.4359, 0.4921



# Inverse Universe

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



46.0016, 0.2506, 0.2347



38.2159, 0.2359, 0.2117



46.7969, 0.2735, 0.2305



17.6736, 0.2979, 0.3069



4.2510, 0.1519, 0.0668

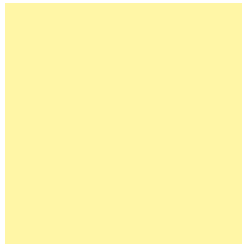


0.5075, 0.1555, 0.0799



# Previews

## White Background



This preview shows how the Yxy color 89.9247, 0.3683, 0.4084 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

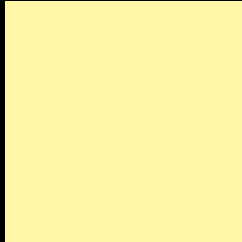
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 89.9247, 0.3683, 0.4084 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

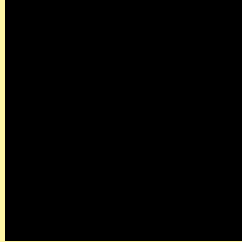
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 89.9247, 0.3683, 0.4084**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.9247, 0.3683, 0.4084.

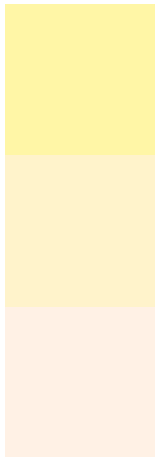


This preview shows how white text looks on a background with the Yxy color 89.9247, 0.3683, 0.4084.

# 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

89.9247, 0.3683, 0.4084

### Protanopia

89.6730, 0.3458, 0.3688

### Deuteranopia

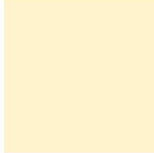
89.8277, 0.3295, 0.3408




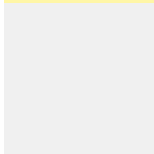
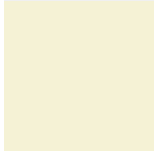
## Tritanopia

89.8326, 0.3171, 0.3193

# Trichromacy

	<b>Original Color</b> 89.9247, 0.3683, 0.4084
	<b>Protanomaly</b> 89.6791, 0.3539, 0.3829
	<b>Deuteranomaly</b> 89.8174, 0.3439, 0.3658
	<b>Tritanomaly</b> 89.8787, 0.3357, 0.3518

# Monochromacy

	<b>Original Color</b> 89.9247, 0.3683, 0.4084
	<b>Achromatopsia</b> 87.1367, 0.3127, 0.3290
	<b>Achromatomaly</b> 87.7208, 0.3327, 0.3584

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.9247, 0.3683, 0.4084 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(255, 246, 166) looks like.

```
.text, #text, p{  
    color:rgb(255, 246, 166)  
}
```

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(255, 246, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 246, 166) }
```

## Border

The CSS property to change the border of an element to Yxy 89.9247, 0.3683, 0.4084 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(255, 246, 166) }
```

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

```
.border{ border-color:rgb(255, 246, 166) }
```

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

Here you see how a box with a 4 pixel rgb(255, 246, 166) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 246, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 246, 166);  
box-shadow:4px 4px 4px 4px rgb(255, 246,  
166) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.9247, 0.3683, 0.4084 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 246, 166) }
```

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

```
.background{ background-color: rgb(255,  
246, 166) }
```

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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