

# Converting Colors

$Y_{xy}(88.1263, 0.3127, 0.3074)$

Have a look what the booklet for  
Yxy(88.1263, 0.3127, 0.3074)  
contains.

<b>Yxy(87.8967, 0.3136, 0.3097)</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(87.8967, 0.3136, 0.3097)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEBFF
RGB	255, 235, 255
RGB Percent	100%, 92%, 100%
CMY	0.0000, 0.0784, 0.0000
CMYK	0.00, 0.08, 0.00, 0.00
HSL	300°, 100%, 96%
HSV	300°, 8%, 100%
XYZ	89.0036, 87.8967, 106.9121
YIQ	243.2600, 5.5000, 10.4600

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 235, 255
Decimal	16772095
CIE Lab	95.12, 10.22, -7.20
CIE LCh	95, 12.500, 324.808
Yxy	87.8967, 0.3136, 0.3097
Android (android.graphics.Color)	4294962175 (0xFFFFE0FF)
YUV	243.2600, 5.7878, 10.2960
Hunter-Lab	93.7532, 5.3888, -1.9845

# Details

The Yxy color  $87.8967, 0.3136, 0.3097$  is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be  $95.1806, 0.3118, 0.3490$ , and the grayscale version is  $89.7950, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $48.3232, 0.3138, 0.3057$  is the 20% darker color. If you saturate the color by 10%, you get  $74.3272, 0.3148, 0.2846$ , and if you desaturate by 10%, it is  $100.0000, 0.3127, 0.3290$ .

# Distribution



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



- Red (100%)
- Yellow (92%)
- Blue (100%)



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.8967, 0.3136, 0.3097 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 87.8967, 0.3136, 0.3097 by changing the saturation by 10% instead.




 87.8967, 0.3136,  
0.3097

 87.8967, 0.3136,  
0.3097


521.1649, 0.3133,  
0.3182

 66.2375, 0.3137,  
0.3078


144.4133, 0.3135,  
0.3126

 48.4652, 0.3137,  
0.3056


180.0396, 0.3135,  
0.3137

 34.1955, 0.3138,  
0.3028


221.0903, 0.3134,  
0.3147

 23.0438, 0.3139,  
0.2993

267.9499, 0.3134,  
0.3156

 14.6259, 0.3140,  
0.2947

321.0028, 0.3133,  
0.3163

 8.5572, 0.3141,  
0.2884

380.6333, 0.3133,

 4.4535, 0.3141,

0.3170

0.2793

447.2259, 0.3133,  
0.3177

■ 1.9304, 0.3139,  
0.2650

■ 0.5665, 0.3172,  
0.2281

■ 87.8967, 0.3136,  
0.3097

■ 87.8967, 0.3136,  
0.3097

■ 74.3272, 0.3148,  
0.2846

100.0000, 0.3127,  
0.3290

■ 62.7615, 0.3160,  
0.2595

■ 53.1051, 0.3171,  
0.2352

■ 45.2554, 0.3182,  
0.2128

■ 39.1002, 0.3191,  
0.1931

■ 34.5148, 0.3198,  
0.1772

■ 31.3572, 0.3204,  
0.1654

■ 29.4600, 0.3207,  
0.1581

■ 28.5994, 0.3209,  
0.1546

# Harmonies

## Analogous

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



87.8967, 0.2998, 0.3052



87.8967, 0.3136, 0.3097



87.8967, 0.3275, 0.3190

# Triad

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



87.8967, 0.3136, 0.3097



87.8967, 0.3362, 0.3512



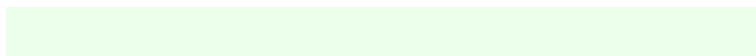
87.8967, 0.2886, 0.3262

# Complementary

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



87.8967, 0.3136, 0.3097



95.1806, 0.3118, 0.3490

# 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.



87.8967, 0.2979, 0.3392



87.8967, 0.3136, 0.3097



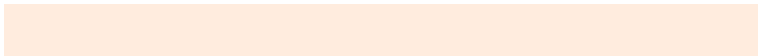
87.8967, 0.3254, 0.3538

# Square

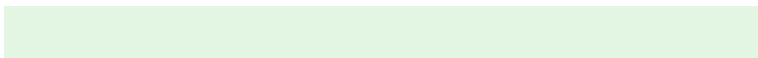
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



87.8967, 0.3136, 0.3097



87.8967, 0.3407, 0.3427



87.8967, 0.3114, 0.3495



87.8967, 0.2855, 0.3144



# Rectangle

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



87.8967, 0.3136, 0.3097



87.8967, 0.3348, 0.3268



87.8967, 0.3114, 0.3495



87.8967, 0.2911, 0.3306

# Sweetspot

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



87.8973, 0.3136, 0.3097



96.7891, 0.3129, 0.3241



84.2997, 0.3006, 0.3089



20.7505, 0.3129, 0.3244



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.



87.8973, 0.3136, 0.3097



86.2214, 0.3138, 0.3069



87.2699, 0.3199, 0.3193



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

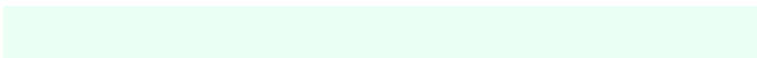
The Inverse Universe completely reimagines the original color for something new.



87.8973, 0.3136, 0.3097



86.2214, 0.3138, 0.3069



95.7750, 0.3061, 0.3389



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 87.8967, 0.3136, 0.3097 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

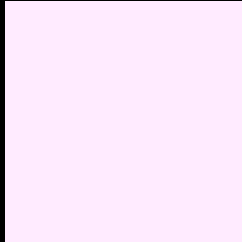
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.8967, 0.3136, 0.3097 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

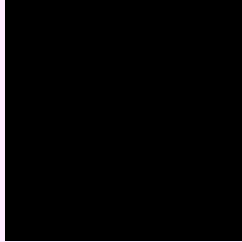
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

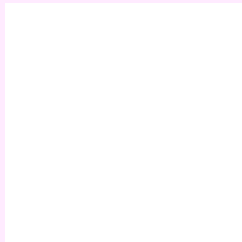
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 87.8967, 0.3136, 0.3097**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.8967, 0.3136, 0.3097.

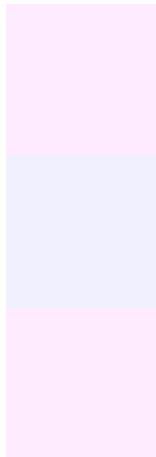


This preview shows how white text looks on a background with the Yxy color 87.8967, 0.3136, 0.3097.

# 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

87.8967, 0.3136, 0.3097

### Protanopia

88.2409, 0.3044, 0.3142

### Deuteranopia

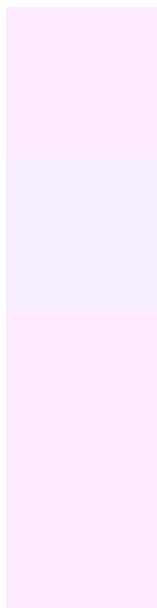
87.7685, 0.3149, 0.3116



## Tritanopia

87.8324, 0.3142, 0.3107

# Trichromacy



## Original Color

87.8967, 0.3136, 0.3097

## Protanomaly

87.9619, 0.3076, 0.3124

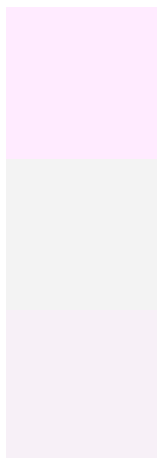
## Deuteranomaly

87.8324, 0.3142, 0.3107

## Tritanomaly

87.8324, 0.3142, 0.3107

# Monochromacy



## Original Color

87.8967, 0.3136, 0.3097

## Achromatopsia

89.6269, 0.3127, 0.3290

## Achromatomaly

88.8097, 0.3130, 0.3221

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.8967, 0.3136, 0.3097 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, 235, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 235, 255)  
}
```

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, 235, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 235, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 87.8967, 0.3136, 0.3097 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, 235, 255) }
```

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

```
.border{ border-color:rgb(255, 235, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 235, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 235, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 235, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 235,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.8967, 0.3136, 0.3097 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 235, 255) }
```

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

```
.background{ background-color: rgb(255,  
235, 255) }
```

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