

# Converting Colors

$Y_{xy}(90.0551, 0.2932, 0.2735)$

Have a look what the booklet for  
Yxy(90.0551, 0.2932, 0.2735)  
contains.

<b>Yxy(86.7578, 0.3137, 0.3078)</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(86.7578, 0.3137, 0.3078)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE9FF
RGB	255, 233, 255
RGB Percent	100%, 91%, 100%
CMY	0.0001, 0.0862, 0.0000
CMYK	0.00, 0.09, 0.00, 0.00
HSL	300°, 100%, 96%
HSV	300°, 9%, 100%
XYZ	88.4208, 86.7578, 106.6856
YIQ	242.0860, 6.0500, 11.5060

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 233, 255
Decimal	16771583
CIE Lab	94.64, 11.22, -7.89
CIE LCh	95, 13.722, 324.876
Yxy	86.7578, 0.3137, 0.3078
Android (android.graphics.Color)	4294961663 (0xFFFFE9FF)
YUV	242.0860, 6.3666, 11.3256
Hunter-Lab	93.1439, 6.4470, -2.7092

# Details

The Yxy color **86.7578, 0.3137, 0.3078** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **94.7281, 0.3117, 0.3511**, and the grayscale version is **88.8099, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **47.5273, 0.3139, 0.3032** is the 20% darker color. If you saturate the color by 10%, you get **73.3477, 0.3149, 0.2826**, and if you desaturate by 10%, it is **99.9985, 0.3127, 0.3290**.

# Distribution



- Red (100%)
- Green (91%)
- Blue (100%)



- Red (100%)
- Yellow (91%)
- Blue (100%)



- Cyan (0%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (9%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.7578, 0.3137, 0.3078 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 86.7578, 0.3137, 0.3078 by changing the saturation by 10% instead.




 86.7578, 0.3137,  
0.3078

 86.7578, 0.3137,  
0.3078


517.4267, 0.3133,  
0.3172

 65.2948, 0.3138,  
0.3058

142.8265, 0.3136,  
0.3110

 47.7002, 0.3138,  
0.3033


178.2010, 0.3135,  
0.3122

 33.5895, 0.3139,  
0.3002


218.9814, 0.3135,  
0.3133

 22.5784, 0.3140,  
0.2964

265.5522, 0.3135,  
0.3143

 14.2825, 0.3141,  
0.2913

318.2977, 0.3134,  
0.3151

 8.3174, 0.3142,  
0.2844

377.6024, 0.3134,

 4.2987, 0.3142,

0.3159

0.2743

443.8506, 0.3134,  
0.3165

■ 1.8420, 0.3139,  
0.2586

■ 0.5132, 0.3183,  
0.2144

■ 86.7578, 0.3137,  
0.3078

■ 86.7578, 0.3137,  
0.3078

■ 73.3477, 0.3149,  
0.2826

99.9985, 0.3127,  
0.3290

■ 61.9308, 0.3160,  
0.2575

99.9995, 0.3127,  
0.3290

■ 52.4156, 0.3171,  
0.2334

■ 44.6986, 0.3182,  
0.2111

■ 38.6667, 0.3191,  
0.1917

■ 34.1942, 0.3198,  
0.1760

■ 31.1376, 0.3203,  
0.1646

■ 29.3268, 0.3206,  
0.1576

■ 28.5199, 0.3207,  
0.1544

# Harmonies

## Analogous

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



86.7578, 0.2985, 0.3029



86.7578, 0.3137, 0.3078



86.7578, 0.3290, 0.3180

# Triad

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



86.7578, 0.3137, 0.3078



86.7578, 0.3386, 0.3535



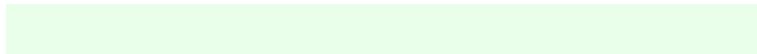
86.7578, 0.2861, 0.3259

# Complementary

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



86.7578, 0.3137, 0.3078



94.7281, 0.3117, 0.3511

# 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.



86.7578, 0.2964, 0.3402



86.7578, 0.3137, 0.3078



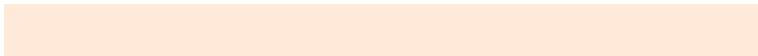
86.7578, 0.3266, 0.3564

# Square

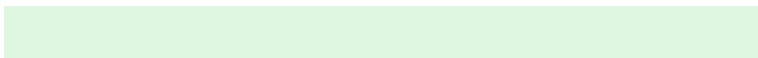
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



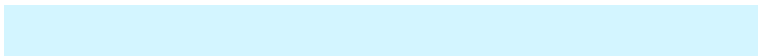
86.7578, 0.3137, 0.3078



86.7578, 0.3436, 0.3441



86.7578, 0.3111, 0.3516



86.7578, 0.2828, 0.3128



# Rectangle

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



86.7578, 0.3137, 0.3078



86.7578, 0.3371, 0.3266



86.7578, 0.3111, 0.3516



86.7578, 0.2888, 0.3307

# Sweetspot

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



86.7615, 0.3137, 0.3078



95.2147, 0.3131, 0.3217



83.0399, 0.2993, 0.3072



20.1131, 0.3131, 0.3197



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.



86.7615, 0.3137, 0.3078



84.7922, 0.3139, 0.3044



86.0992, 0.3204, 0.3180



18.2997, 0.3138, 0.3056



14.8634, 0.3207, 0.1541



1.4474, 0.3208, 0.1541

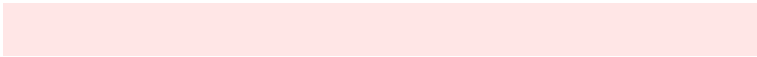


# Inverse Universe

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



85.4300, 0.3277, 0.3290



83.2619, 0.3304, 0.3290



95.3510, 0.3057, 0.3403



17.9873, 0.3294, 0.3290



11.1091, 0.6400, 0.3299



1.0817, 0.6398, 0.3298



# Previews

## White Background



This preview shows how the Yxy color 86.7578, 0.3137, 0.3078 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

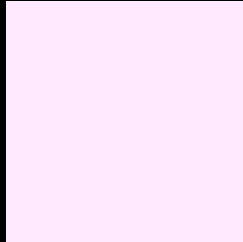
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.7578, 0.3137, 0.3078 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

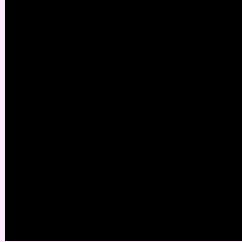
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

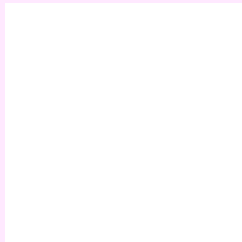
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 86.7578, 0.3137, 0.3078**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.7578, 0.3137, 0.3078.

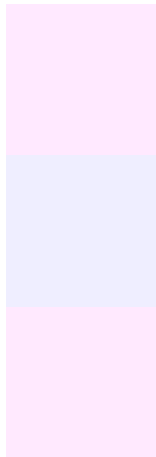


This preview shows how white text looks on a background with the Yxy color 86.7578, 0.3137, 0.3078.

# 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

86.7578, 0.3137, 0.3078

### Protanopia

86.7198, 0.3031, 0.3121

### Deuteranopia

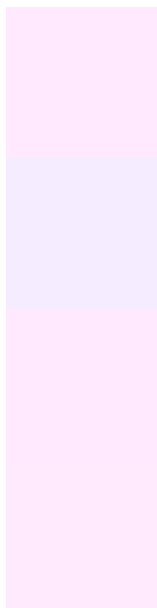
86.6936, 0.3143, 0.3087



## Tritanopia

87.1339, 0.3155, 0.3116

# Trichromacy



## Original Color

86.7578, 0.3137, 0.3078

## Protanomaly

86.6234, 0.3070, 0.3103

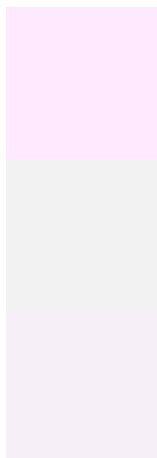
## Deuteranomaly

86.6936, 0.3143, 0.3087

## Tritanomaly

87.1975, 0.3149, 0.3107

# Monochromacy



## Original Color

86.7578, 0.3137, 0.3078

## Achromatopsia

88.7923, 0.3127, 0.3290

## Achromatomaly

88.2226, 0.3131, 0.3211

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.7578, 0.3137, 0.3078 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, 233, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 233, 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, 233, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 233, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 86.7578, 0.3137, 0.3078 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, 233, 255) }
```

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

```
.border{ border-color:rgb(255, 233, 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, 233, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 233, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 233, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 233,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.7578, 0.3137, 0.3078 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 233, 255) }
```

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

```
.background{ background-color: rgb(255,  
233, 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