

# Converting Colors

$Y_{xy}(94.1276, 0.3396, 0.3173)$

Have a look what the booklet for  
Yxy(94.1276, 0.3396, 0.3173)  
contains.

<b>Yxy(87.4540, 0.3180, 0.3164)</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(87.4540, 0.3180, 0.3164)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEBF8
RGB	255, 235, 248
RGB Percent	100%, 92%, 97%
CMY	0.0000, 0.0784, 0.0275
CMYK	0.00, 0.08, 0.03, 0.00
HSL	321°, 100%, 96%
HSV	321°, 8%, 100%
XYZ	87.8962, 87.4540, 101.0530
YIQ	242.4620, 7.7470, 8.2830

# Conversions

## Conversions Part 2

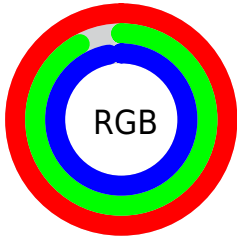
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 235, 248
Decimal	16772088
CIE <sub>Lab</sub>	94.93, 8.98, -3.83
CIE <sub>LCh</sub>	95, 9.765, 336.929
Y <sub>xy</sub>	87.4540, 0.3180, 0.3164
Android (android.graphics.Color)	4294962168 (0xFFFFEBF8)
YUV	242.4620, 2.7302, 10.9958
Hunter-Lab	93.5168, 4.1172, 1.3938

# Details

The Yxy color **87.4540, 0.3180, 0.3164** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **95.5931, 0.3078, 0.3419**, and the grayscale version is **89.1508, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **48.0517, 0.3186, 0.3130** is the 20% darker color. If you saturate the color by 10%, you get **73.3432, 0.3258, 0.2996**, and if you desaturate by 10%, it is **100.0000, 0.3127, 0.3290**.

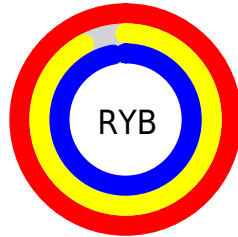
# Distribution



Red (100%)

Green (92%)

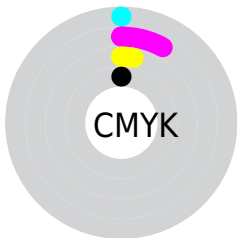
Blue (97%)



Red (100%)

Yellow (92%)

Blue (97%)

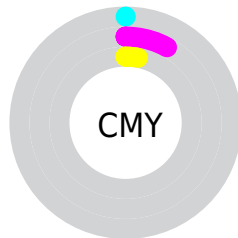


Cyan (0%)

Magenta (8%)

Yellow (3%)

Black (0%)



Cyan (0%)

Magenta (8%)


Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.4540, 0.3180, 0.3164 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 87.4540, 0.3180, 0.3164 by changing the saturation by 10% instead.




 87.4540, 0.3180,  
0.3164

 87.4540, 0.3180,  
0.3164

519.7135, 0.3157,  
0.3220

 65.8710, 0.3185,  
0.3152


143.7968, 0.3172,  
0.3183

 48.1677, 0.3191,  
0.3137

179.3253, 0.3169,  
0.3190

 33.9597, 0.3199,  
0.3118


220.2711, 0.3166,  
0.3197

 22.8626, 0.3209,  
0.3095

267.0187, 0.3164,  
0.3203

 14.4921, 0.3222,  
0.3064

319.9523, 0.3162,  
0.3208

 8.4637, 0.3239,  
0.3022

379.4564, 0.3160,

 4.3931, 0.3265,

0.3212

0.2960

445.9153, 0.3158,  
0.3216

■ 1.8958, 0.3306,  
0.2860

■ 0.5458, 0.3440,  
0.2544

■ 87.4540, 0.3180,  
0.3164

■ 87.4540, 0.3180,  
0.3164

■ 73.3432, 0.3258,  
0.2996

100.0000, 0.3127,  
0.3290

■ 61.2626, 0.3351,  
0.2824

■ 51.1171, 0.3458,  
0.2653

■ 42.8036, 0.3581,  
0.2491

■ 36.2096, 0.3719,  
0.2347

■ 31.2098, 0.3868,  
0.2234

■ 27.6619, 0.4024,  
0.2162

■ 25.3982, 0.4181,  
0.2140

■ 24.1942, 0.4334,  
0.2169

# Harmonies

## Analogous

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



87.4540, 0.3068, 0.3112



87.4540, 0.3180, 0.3164



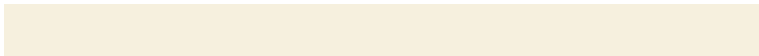
87.4540, 0.3279, 0.3249

# Triad

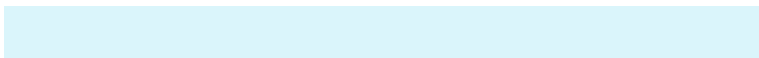
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



87.4540, 0.3180, 0.3164



87.4540, 0.3282, 0.3478



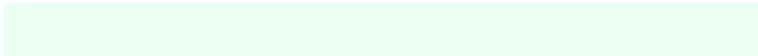
87.4540, 0.2921, 0.3229

# Complementary

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



87.4540, 0.3180, 0.3164



95.5931, 0.3078, 0.3419

# 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.



87.4540, 0.2977, 0.3330



87.4540, 0.3180, 0.3164



87.4540, 0.3184, 0.3476

# Square

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



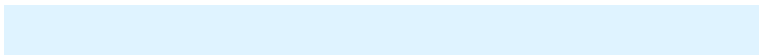
87.4540, 0.3180, 0.3164



87.4540, 0.3338, 0.3429



87.4540, 0.3072, 0.3422



87.4540, 0.2920, 0.3147

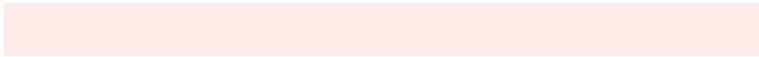


# Rectangle

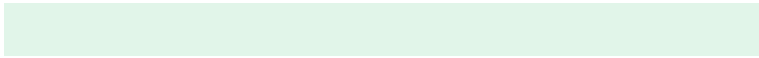
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



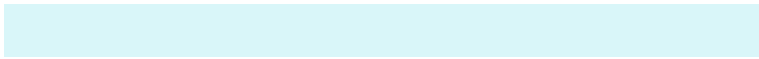
87.4540, 0.3180, 0.3164



87.4540, 0.3324, 0.3313



87.4540, 0.3072, 0.3422



87.4540, 0.2934, 0.3262

# Sweetspot

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



87.4541, 0.3180, 0.3164



96.6746, 0.3140, 0.3258



85.5141, 0.3051, 0.3092



20.7272, 0.3139, 0.3260



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

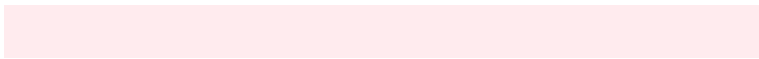
The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.4541, 0.3180, 0.3164



85.7147, 0.3188, 0.3145



86.8499, 0.3243, 0.3261



18.1860, 0.3192, 0.3137



12.5719, 0.4342, 0.2166



1.2448, 0.4179, 0.2076



# Inverse Universe

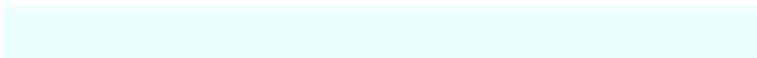
The Inverse Universe completely reimagines the original color for something new.



87.4541, 0.3180, 0.3164



85.7147, 0.3188, 0.3145



96.2105, 0.3022, 0.3319



18.1860, 0.3192, 0.3137



12.5719, 0.4342, 0.2166



1.2448, 0.4179, 0.2076



# Previews

## White Background



This preview shows how the Yxy color 87.4540, 0.3180, 0.3164 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

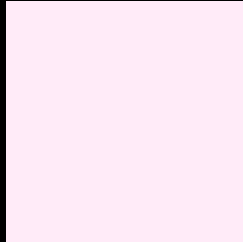
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.4540, 0.3180, 0.3164 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

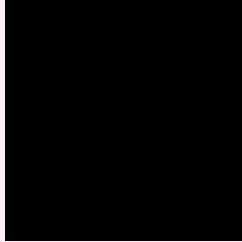
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 87.4540, 0.3180, 0.3164**

## Background



This preview shows how black text looks on a background with the Yxy color 87.4540, 0.3180, 0.3164.

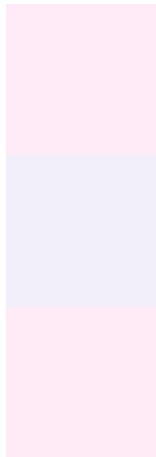


This preview shows how white text looks on a background with the Yxy color 87.4540, 0.3180, 0.3164.

# 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

87.4540, 0.3180, 0.3164

### Protanopia

87.5124, 0.3080, 0.3181

### Deuteranopia

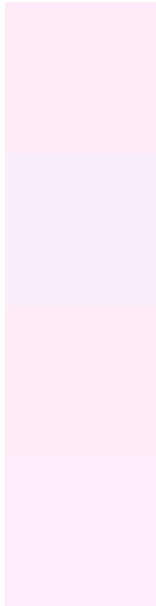
87.3305, 0.3192, 0.3183



## Tritanopia

87.7049, 0.3155, 0.3126

# Trichromacy



## Original Color

87.4540, 0.3180, 0.3164

## Protanomaly

87.7628, 0.3119, 0.3182

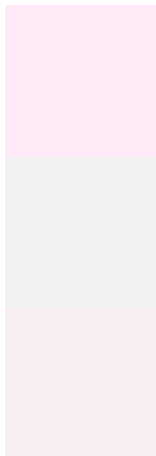
## Deuteranomaly

87.3921, 0.3186, 0.3174

## Tritanomaly

87.6417, 0.3161, 0.3135

# Monochromacy



## Original Color

87.4540, 0.3180, 0.3164

## Achromatopsia

88.7923, 0.3127, 0.3290

## Achromatomaly

88.0388, 0.3149, 0.3241

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.4540, 0.3180, 0.3164 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, 248)` looks like.

```
.text, #text, p{  
    color:rgb(255, 235, 248)  
}
```

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, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 235, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 87.4540, 0.3180, 0.3164 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, 248) }
```

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

```
.border{ border-color:rgb(255, 235, 248) }
```

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, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 235, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 235, 248);  
box-shadow:4px 4px 4px 4px rgb(255, 235,  
248) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.4540, 0.3180, 0.3164 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, 248) }
```

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

```
.background{ background-color: rgb(255,  
235, 248) }
```

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