

# Converting Colors

$Y_{xy}(91.2212, 0.3210, 0.3152)$

Have a look what the booklet for  
Yxy(91.2212, 0.3210, 0.3152)  
contains.

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# Color

**Yxy(89.5009, 0.3147, 0.3146)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEEFD
RGB	255, 238, 253
RGB Percent	100%, 93%, 99%
CMY	0.0002, 0.0666, 0.0080
CMYK	0.00, 0.07, 0.01, 0.00
HSL	307°, 100%, 97%
HSV	307°, 7%, 100%
XYZ	89.5293, 89.5009, 105.4609
YIQ	244.7930, 5.3170, 8.2690

# Conversions

## Conversions Part 2

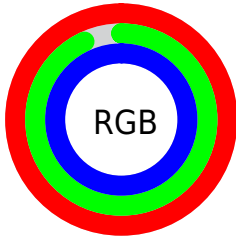
Format	Color
R <sub>Y</sub> B	255, 238, 253
Decimal	16772861
CIE Lab	95.79, 8.28, -5.14
CIE LCh	96, 9.747, 328.160
Yxy	89.5009, 0.3147, 0.3146
Android (android.graphics.Color)	4294962941 (0xFFFFEEFD)
YUV	244.7930, 4.0461, 8.9515
Hunter-Lab	94.6049, 3.3648, 0.1299

# Details

The Yxy color **89.5009, 0.3147, 0.3146** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **95.9681, 0.3108, 0.3438**, and the grayscale version is **91.0972, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **49.4472, 0.3152, 0.3118** is the 20% darker color. If you saturate the color by 10%, you get **75.5039, 0.3180, 0.2923**, and if you desaturate by 10%, it is **99.9926, 0.3127, 0.3290**.

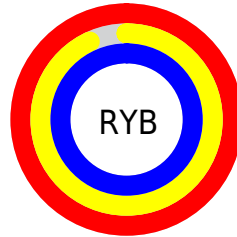
# Distribution



Red (100%)

Green (93%)

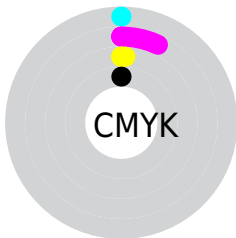
Blue (99%)



Red (100%)

Yellow (93%)

Blue (99%)

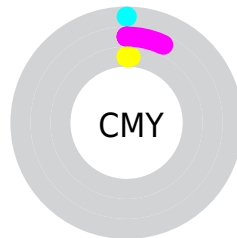


Cyan (0%)

Magenta (7%)

Yellow (1%)

Black (0%)



Cyan (0%)

Magenta (7%)


Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.5009, 0.3147, 0.3146 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 89.5009, 0.3147, 0.3146 by changing the saturation by 10% instead.




 89.5009, 0.3147,  
0.3146

 89.5009, 0.3147,  
0.3146


526.4060, 0.3139,  
0.3210

 67.5668, 0.3149,  
0.3132


146.6449, 0.3144,  
0.3167

 49.5454, 0.3151,  
0.3115


182.6236, 0.3143,  
0.3176

 35.0523, 0.3154,  
0.3095


224.0526, 0.3142,  
0.3183

 23.7032, 0.3157,  
0.3068

271.3163, 0.3141,  
0.3190

 15.1136, 0.3161,  
0.3034

324.7991, 0.3140,  
0.3196

 8.8991, 0.3167,  
0.2987

384.8854, 0.3140,

 4.6754, 0.3174,

0.3201

0.2918

451.9595, 0.3139,  
0.3205

■ 2.0581, 0.3185,  
0.2810

■ 0.6409, 0.3229,  
0.2551

■ 89.5009, 0.3147,  
0.3146

■ 89.5009, 0.3147,  
0.3146

■ 75.5039, 0.3180,  
0.2923

99.9926, 0.3127,  
0.3290

■ 63.5206, 0.3217,  
0.2697

■ 53.4606, 0.3258,  
0.2475

■ 45.2224, 0.3302,  
0.2266

■ 38.6952, 0.3348,  
0.2080

■ 33.7557, 0.3394,  
0.1926

■ 30.2647, 0.3440,  
0.1814

■ 28.0584, 0.3483,  
0.1747

■ 26.9312, 0.3523,  
0.1724

# Harmonies

## Analogous

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



89.5009, 0.3038, 0.3107



89.5009, 0.3147, 0.3146



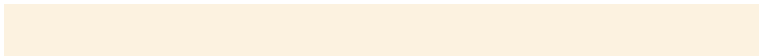
89.5009, 0.3252, 0.3222

# Triad

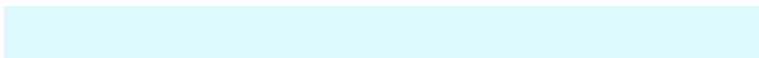
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



89.5009, 0.3147, 0.3146



89.5009, 0.3302, 0.3467



89.5009, 0.2934, 0.3258

# Complementary

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



89.5009, 0.3147, 0.3146



95.9681, 0.3108, 0.3438

# Split Complementary

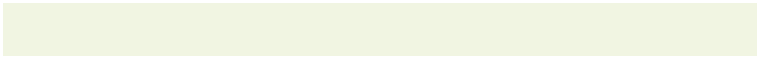
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



89.5009, 0.3002, 0.3359



89.5009, 0.3147, 0.3146



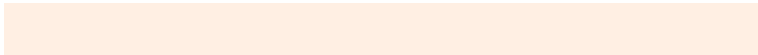
89.5009, 0.3214, 0.3481

# Square

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



89.5009, 0.3147, 0.3146



89.5009, 0.3342, 0.3406



89.5009, 0.3105, 0.3441



89.5009, 0.2917, 0.3169

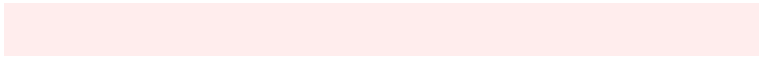


# Rectangle

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



89.5009, 0.3147, 0.3146



89.5009, 0.3305, 0.3285



89.5009, 0.3105, 0.3441



89.5009, 0.2952, 0.3292

# Sweetspot

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



89.5048, 0.3147, 0.3146



96.7506, 0.3133, 0.3247



86.9046, 0.3038, 0.3122



20.7426, 0.3133, 0.3249



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.



89.5048, 0.3147, 0.3146



87.5146, 0.3151, 0.3116



88.9777, 0.3199, 0.3227



18.2615, 0.3156, 0.3083



13.9658, 0.3530, 0.1718



1.3698, 0.3488, 0.1695



# Inverse Universe

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



89.5048, 0.3147, 0.3146



87.5146, 0.3151, 0.3116



96.4825, 0.3060, 0.3354



18.2615, 0.3156, 0.3083



13.9658, 0.3530, 0.1718

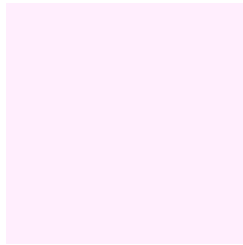


1.3698, 0.3488, 0.1695



# Previews

## White Background



This preview shows how the Yxy color 89.5009, 0.3147, 0.3146 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

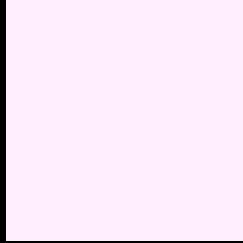
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 89.5009, 0.3147, 0.3146 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

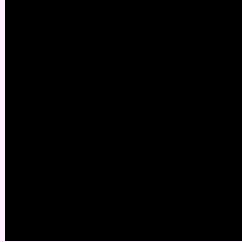
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 89.5009, 0.3147, 0.3146**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.5009, 0.3147, 0.3146.



This preview shows how white text looks on a background with the Yxy color 89.5009, 0.3147, 0.3146.

# 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

89.5009, 0.3147, 0.3146

### Protanopia

89.9574, 0.3062, 0.3163

### Deuteranopia

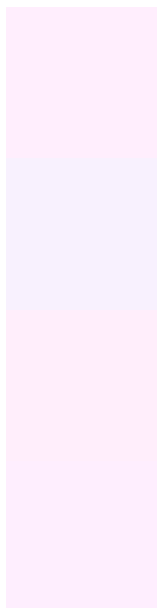
89.3112, 0.3166, 0.3174



## Tritanopia

89.4399, 0.3128, 0.3126

# Trichromacy



## Original Color

89.5009, 0.3147, 0.3146

## Protanomaly

90.0228, 0.3094, 0.3163

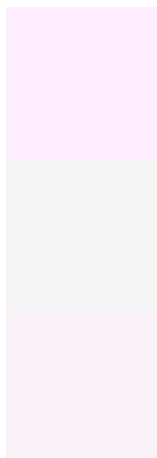
## Deuteranomaly

89.3741, 0.3159, 0.3165

## Tritanomaly

89.3757, 0.3134, 0.3136

# Monochromacy



## Original Color

89.5009, 0.3147, 0.3146

## Achromatopsia

91.3099, 0.3127, 0.3290

## Achromatomaly

90.4213, 0.3136, 0.3231

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.5009, 0.3147, 0.3146 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, 238, 253)` looks like.

```
.text, #text, p{  
    color:rgb(255, 238, 253)  
}
```

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, 238, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 238, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 89.5009, 0.3147, 0.3146 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, 238, 253) }
```

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

```
.border{ border-color:rgb(255, 238, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 238, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 238, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 238, 253);  
box-shadow:4px 4px 4px 4px rgb(255, 238,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.5009, 0.3147, 0.3146 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 238, 253) }
```

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

```
.background{ background-color: rgb(255,  
238, 253) }
```

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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