

# Converting Colors

$Y_{xy}(100.0000, 0.3021, 0.2553)$

Have a look what the booklet for  
Yxy(100.0000, 0.3021, 0.2553)  
contains.

<b>Yxy(85.6318, 0.3138, 0.3058)</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(85.6318, 0.3138, 0.3058)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE7FF
RGB	255, 231, 255
RGB Percent	100%, 91%, 100%
CMY	0.0000, 0.0941, 0.0000
CMYK	0.00, 0.09, 0.00, 0.00
HSL	300°, 100%, 95%
HSV	300°, 9%, 100%
XYZ	87.8720, 85.6318, 106.5217
YIQ	240.9120, 6.6000, 12.5520

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 231, 255
Decimal	16771071
CIE <sub>Lab</sub>	94.15, 12.28, -8.62
CIE <sub>LCh</sub>	94, 15.007, 324.934
Yxy	85.6318, 0.3138, 0.3058
Android (android.graphics.Color)	4294961151 (0xFFFFE7FF)
YUV	240.9120, 6.9454, 12.3552
Hunter-Lab	92.5375, 7.5600, -3.4737

# Details

The Yxy color 85.6318, 0.3138, 0.3058 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 94.2783, 0.3116, 0.3533, and the grayscale version is 87.8294, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 46.7429, 0.3140, 0.3007 is the 20% darker color. If you saturate the color by 10%, you get 72.3818, 0.3150, 0.2806, and if you desaturate by 10%, it is 100.0000, 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 85.6318, 0.3138, 0.3058 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 85.6318, 0.3138, 0.3058 by changing the saturation by 10% instead.



 85.6318, 0.3138,  
0.3058

 85.6318, 0.3138,  
0.3058

513.7163, 0.3134,  
0.3160

 64.3635, 0.3139,  
0.3036


141.2556, 0.3137,  
0.3093

 46.9452, 0.3139,  
0.3009


176.3799, 0.3136,  
0.3106

 32.9923, 0.3140,  
0.2975


216.8916, 0.3136,  
0.3118

 22.1206, 0.3141,  
0.2933

263.1753, 0.3135,  
0.3129

 13.9455, 0.3142,  
0.2877

315.6152, 0.3135,  
0.3138

 8.0828, 0.3143,  
0.2801

374.5957, 0.3135,

 4.1480, 0.3142,

0.3146

0.2691

440.5013, 0.3134,  
0.3154

■ 1.7567, 0.3138,  
0.2518

■ 0.4600, 0.3194,  
0.1993

■ 85.6318, 0.3138,  
0.3058

■ 85.6318, 0.3138,  
0.3058

■ 72.3818, 0.3150,  
0.2806

100.0000, 0.3127,  
0.3290

■ 61.1222, 0.3162,  
0.2556

■ 51.7563, 0.3173,  
0.2315

■ 44.1803, 0.3183,  
0.2095

■ 38.2801, 0.3192,  
0.1904

■ 33.9287, 0.3199,  
0.1750

■ 30.9808, 0.3205,  
0.1640

■ 29.2638, 0.3208,  
0.1573

■ 28.5125, 0.3209,  
0.1543

# Harmonies

## Analogous

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



85.6318, 0.2971, 0.3004



85.6318, 0.3138, 0.3058



85.6318, 0.3306, 0.3170

# Triad

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



85.6318, 0.3138, 0.3058



85.6318, 0.3411, 0.3559



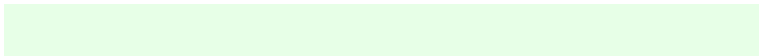
85.6318, 0.2835, 0.3255

# Complementary

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



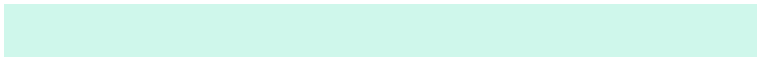
85.6318, 0.3138, 0.3058



94.2783, 0.3116, 0.3533

# 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.



85.6318, 0.2947, 0.3413



85.6318, 0.3138, 0.3058



85.6318, 0.3279, 0.3592

# Square

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



85.6318, 0.3138, 0.3058



85.6318, 0.3466, 0.3455



85.6318, 0.3109, 0.3539



85.6318, 0.2799, 0.3112



# Rectangle

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



85.6318, 0.3138, 0.3058



85.6318, 0.3395, 0.3264



85.6318, 0.3109, 0.3539



85.6318, 0.2865, 0.3308

# Sweetspot

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



85.6313, 0.3138, 0.3058



95.2158, 0.3131, 0.3217



81.3601, 0.2980, 0.3047



20.1134, 0.3132, 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.



85.6313, 0.3138, 0.3058



83.3908, 0.3140, 0.3018



84.8824, 0.3214, 0.3173



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.



85.6313, 0.3138, 0.3058



83.3908, 0.3140, 0.3018



94.9798, 0.3048, 0.3410



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 85.6318, 0.3138, 0.3058 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

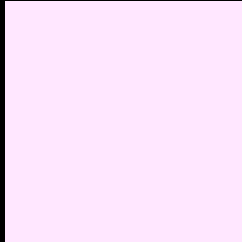
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.6318, 0.3138, 0.3058 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 85.6318, 0.3138, 0.3058**

## Background



This preview shows how black text looks on a background with the Yxy color 85.6318, 0.3138, 0.3058.

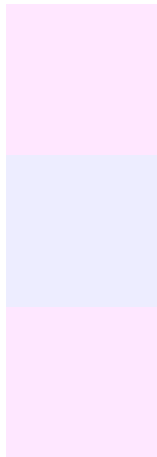


This preview shows how white text looks on a background with the Yxy color 85.6318, 0.3138, 0.3058.

# 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

85.6318, 0.3138, 0.3058

### Protanopia

85.7929, 0.3018, 0.3110

### Deuteranopia

85.4427, 0.3131, 0.3058



## Tritanopia

85.6862, 0.3162, 0.3115

# Trichromacy



## Original Color

85.6318, 0.3138, 0.3058

## Protanomaly

85.8698, 0.3064, 0.3093

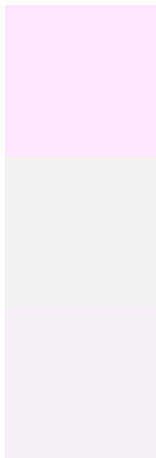
## Deuteranomaly

85.4427, 0.3131, 0.3058

## Tritanomaly

85.8123, 0.3150, 0.3096

# Monochromacy



## Original Color

85.6318, 0.3138, 0.3058

## Achromatopsia

87.9622, 0.3127, 0.3290

## Achromatomaly

86.8150, 0.3131, 0.3201

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.6318, 0.3138, 0.3058 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, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 231, 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, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 231, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 85.6318, 0.3138, 0.3058 is called "border". The border property can be set on classes, ids or directly on the HTML element.

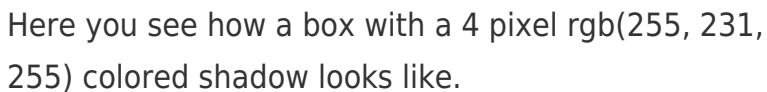
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 231, 255) }
```

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

```
.border{ border-color:rgb(255, 231, 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, 231, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 231, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 231, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 231,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.6318, 0.3138, 0.3058 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 231, 255) }
```

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

```
.background{ background-color: rgb(255,  
231, 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