

# Converting Colors

$Yxy(81.7652, 0.2902, 0.2928)$

Have a look what the booklet for  
Yxy(81.7652, 0.2902, 0.2928)  
contains.

<b>Yxy(81.1948, 0.2973, 0.3046)</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(81.1948, 0.2973, 0.3046)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6E7FF
RGB	230, 231, 255
RGB Percent	90%, 91%, 100%
CMY	0.0982, 0.0940, 0.0000
CMYK	0.10, 0.09, 0.00, 0.00
HSL	237°, 100%, 95%
HSV	237°, 10%, 100%
XYZ	79.2489, 81.1948, 106.1184
YIQ	233.4370, -8.3000, 7.2520

# Conversions

## Conversions Part 2

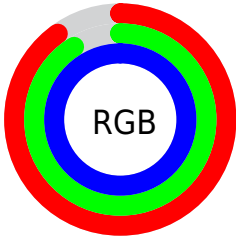
Format	Color
R <sub>Y</sub> B	230, 231, 255
Decimal	15132671
CIE Lab	92.22, 4.15, -11.71
CIE LCh	92, 12.421, 289.494
Yxy	81.1948, 0.2973, 0.3046
Android (android.graphics.Color)	4293322751 (0xFFE6E7FF)
YUV	233.4370, 10.6306, -3.0142
Hunter-Lab	90.1082, -0.7010, -6.7488

# Details

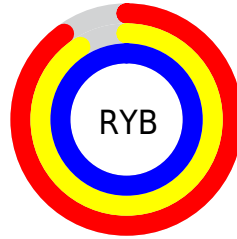
The Yxy color **81.1948, 0.2973, 0.3046** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **97.8103, 0.3275, 0.3523**, and the grayscale version is **81.7509, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **43.7358, 0.2937, 0.2989** is the 20% darker color. If you saturate the color by 10%, you get **64.5563, 0.2797, 0.2765**, and if you desaturate by 10%, it is **100.0000, 0.3127, 0.3290**.

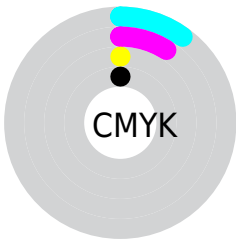
# Distribution



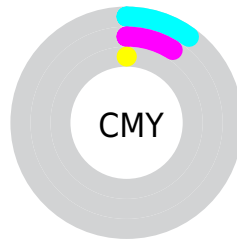
- Red (90%)
- Green (91%)
- Blue (100%)



- Red (90%)
- Yellow (91%)
- Blue (100%)



- Cyan (10%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)



- Cyan (10%)
- Magenta (9%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.1948, 0.2973, 0.3046 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 81.1948, 0.2973, 0.3046 by changing the saturation by 10% instead.



81.1948, 0.2973,  
0.3046

81.1948, 0.2973,  
0.3046

498.9503, 0.3043,  
0.3156

60.7020, 0.2957,  
0.3022

135.0443, 0.2997,  
0.3083

43.9848, 0.2938,  
0.2992

169.1698, 0.3007,  
0.3098

30.6585, 0.2914,  
0.2955

208.6083, 0.3015,  
0.3111

20.3390, 0.2883,  
0.2908

253.7443, 0.3022,  
0.3122

12.6417, 0.2841,  
0.2845

304.9620, 0.3028,  
0.3132

7.1823, 0.2782,  
0.2758

362.6461, 0.3034,

3.5764, 0.2693,

0.3141

0.2630

427.1807, 0.3039,  
0.3149

■ 1.4395, 0.2545,  
0.2421

■ 0.2456, 0.2002,  
0.1469

■ 81.1948, 0.2973,  
0.3046

■ 81.1948, 0.2973,  
0.3046

■ 64.5563, 0.2797,  
0.2765

100.0000, 0.3127,  
0.3290

■ 50.3334, 0.2602,  
0.2452

■ 38.4158, 0.2393,  
0.2115

■ 28.6821, 0.2180,  
0.1767

■ 20.9996, 0.1973,  
0.1427

■ 15.2216, 0.1791,  
0.1121

■ 11.1814, 0.1647,  
0.0874

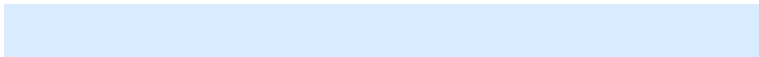
■ 8.6840, 0.1552,  
0.0706

■ 7.4694, 0.1506,  
0.0619

# Harmonies

## Analogous

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



81.1948, 0.2879, 0.3073



81.1948, 0.2973, 0.3046



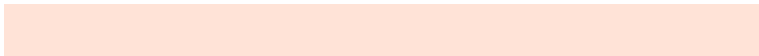
81.1948, 0.3110, 0.3081

# Triad

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



81.1948, 0.2973, 0.3046



81.1948, 0.3412, 0.3410



81.1948, 0.2998, 0.3416

# Complementary

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



81.1948, 0.2973, 0.3046



97.8103, 0.3275, 0.3523

# 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.



81.1948, 0.3139, 0.3512



81.1948, 0.2973, 0.3046



81.1948, 0.3380, 0.3505

# Square

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



81.1948, 0.2973, 0.3046



81.1948, 0.3366, 0.3288



81.1948, 0.3279, 0.3544



81.1948, 0.2893, 0.3285



# Rectangle

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



81.1948, 0.2973, 0.3046



81.1948, 0.3208, 0.3135



81.1948, 0.3279, 0.3544



81.1948, 0.3043, 0.3454

# Sweetspot

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



81.1969, 0.2973, 0.3046



93.9938, 0.3082, 0.3219



95.4743, 0.2982, 0.3302



19.7834, 0.3070, 0.3199



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.



81.1969, 0.2973, 0.3046



77.3640, 0.2936, 0.2988



82.5256, 0.3047, 0.3041



17.5019, 0.2978, 0.3055



3.9498, 0.1507, 0.0625

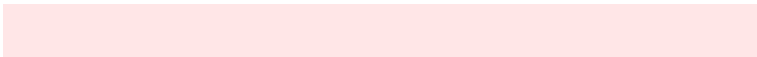


0.4264, 0.1524, 0.0686

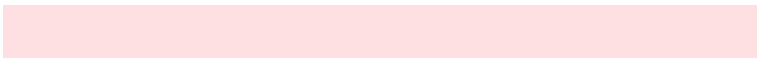


# Inverse Universe

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



83.5963, 0.3294, 0.3280



80.2614, 0.3336, 0.3278



96.4147, 0.3202, 0.3538



17.9996, 0.3288, 0.3280



11.1267, 0.6358, 0.3276

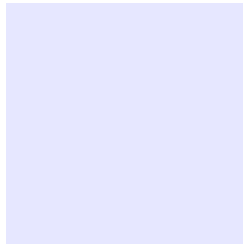


1.0876, 0.6257, 0.3220



# Previews

## White Background



This preview shows how the Yxy color 81.1948, 0.2973, 0.3046 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

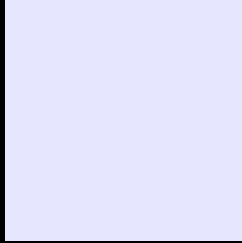
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.1948, 0.2973, 0.3046 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

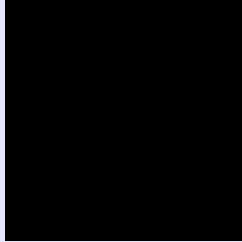
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 81.1948, 0.2973, 0.3046**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.1948, 0.2973, 0.3046.



This preview shows how white text looks on a background with the Yxy color 81.1948, 0.2973, 0.3046.

# 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

81.1948, 0.2973, 0.3046

### Protanopia

81.1948, 0.2973, 0.3046

### Deuteranopia

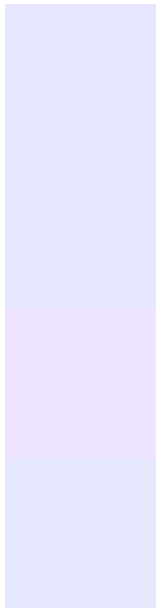
80.8458, 0.3066, 0.3002



## Tritanopia

81.2734, 0.2997, 0.3106

# Trichromacy



## Original Color

81.1948, 0.2973, 0.3046

## Protanomaly

81.1948, 0.2973, 0.3046

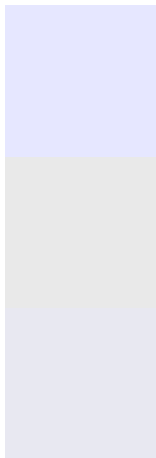
## Deuteranomaly

81.0575, 0.3032, 0.3020

## Tritanomaly

81.3995, 0.2985, 0.3086

# Monochromacy



## Original Color

81.1948, 0.2973, 0.3046

## Achromatopsia

81.4847, 0.3127, 0.3290

## Achromatomaly

81.2199, 0.3071, 0.3197

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.1948, 0.2973, 0.3046 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(230, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(230, 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(230, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 231, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 81.1948, 0.2973, 0.3046 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(230, 231, 255) }
```

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

```
.border{ border-color:rgb(230, 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(230, 231, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 231, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 231, 255);  
box-shadow:4px 4px 4px 4px rgb(230, 231,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.1948, 0.2973, 0.3046 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 231, 255) }
```

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

```
.background{ background-color: rgb(230,  
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