

# Converting Colors

$Y_{xy}(82.1033, 0.3335, 0.3678)$

Have a look what the booklet for  
Yxy(82.1033, 0.3335, 0.3678)  
contains.

<b>Yxy(82.0621, 0.3333, 0.3681)</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(82.0621, 0.3333, 0.3681)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E9EDC8
RGB	233, 237, 200
RGB Percent	91%, 93%, 78%
CMY	0.0864, 0.0705, 0.2157
CMYK	0.02, 0.00, 0.16, 0.07
HSL	67°, 51%, 86%
HSV	67°, 16%, 93%
XYZ	74.3040, 82.0621, 66.5682
YIQ	231.5860, 9.4930, -12.3550

# Conversions

## Conversions Part 2

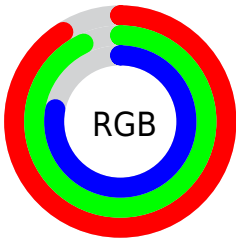
<b>Format</b>	<b>Color</b>
RYB	200, 237, 204
Decimal	15330760
CIELab	92.60, -7.51, 17.50
CIELCh	93, 19.043, 113.224
Yxy	82.0621, 0.3333, 0.3681
Android (android.graphics.Color)	4293520840 (0xFFE9EDC8)
YUV	231.5860, -15.5719, 1.2401
Hunter-Lab	90.5881, -12.1164, 19.8428

# Details

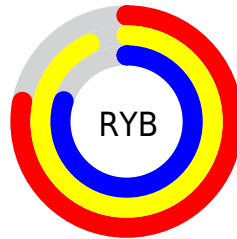
The Yxy color **82.0621, 0.3333, 0.3681** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **60.2720, 0.2902, 0.2874**, and the grayscale version is **80.4818, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.4702, 0.3377, 0.3769** is the 20% darker color. If you saturate the color by 10%, you get **80.6079, 0.3466, 0.3940**, and if you desaturate by 10%, it is **83.7017, 0.3200, 0.3428**.

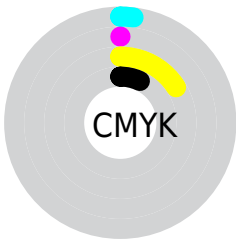
# Distribution



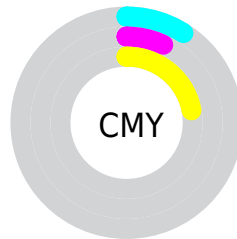
- Red (91%)
- Green (93%)
- Blue (78%)



- Red (78%)
- Yellow (93%)
- Blue (80%)



- Cyan (2%)
- Magenta (0%)
- Yellow (16%)
- Black (7%)



- Cyan (9%)
- Magenta (7%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.0621, 0.3333, 0.3681 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 82.0621, 0.3333, 0.3681 by changing the saturation by 10% instead.



82.0621, 0.3333,  
0.3681

82.0621, 0.3333,  
0.3681

501.8554, 0.3241,  
0.3501

61.4167, 0.3353,  
0.3722

136.2611, 0.3302,  
0.3619

44.5616, 0.3378,  
0.3772

170.5835, 0.3290,  
0.3595

31.1122, 0.3408,  
0.3835

210.2337, 0.3279,  
0.3574

20.6843, 0.3446,  
0.3916

255.5961, 0.3269,  
0.3556

12.8934, 0.3496,  
0.4026

307.0550, 0.3261,  
0.3540

7.3552, 0.3563,  
0.4182

364.9950, 0.3254,

3.6852, 0.3656,

0.3526

0.4418

429.8003, 0.3247,  
0.3513

■ 1.4991, 0.3967,  
0.5039

■ 0.2881, 0.2391,  
0.7609

■ 82.0621, 0.3333,  
0.3681

■ 82.0621, 0.3333,  
0.3681

■ 80.6079, 0.3466,  
0.3940

■ 83.7017, 0.3200,  
0.3428

■ 79.3205, 0.3595,  
0.4198

■ 85.5234, 0.3071,  
0.3186

■ 78.1948, 0.3715,  
0.4445

■ 86.4562, 0.3043,  
0.3112

■ 77.2216, 0.3819,  
0.4670

■ 86.9162, 0.3059,  
0.3113

76.3906, 0.3902,  
0.4863

87.3827, 0.3076,  
0.3114

75.6902, 0.3961,  
0.5016

87.8558, 0.3093,  
0.3115

75.1069, 0.3994,  
0.5124

88.3354, 0.3110,  
0.3116

74.6239, 0.4001,  
0.5188

88.8217, 0.3127,  
0.3117

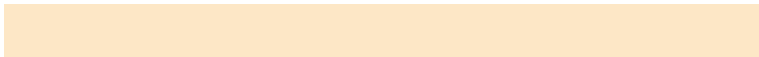
74.4323, 0.3999,  
0.5207

89.0585, 0.3135,  
0.3117

# Harmonies

## Analogous

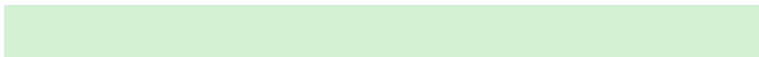
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



82.0621, 0.3499, 0.3629



82.0621, 0.3333, 0.3681



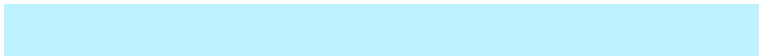
82.0621, 0.3115, 0.3620

# Triad

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



82.0621, 0.3333, 0.3681



82.0621, 0.2708, 0.3068



82.0621, 0.3346, 0.3126

# Complementary

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



82.0621, 0.3333, 0.3681



60.2720, 0.2902, 0.2874

# Split Complementary

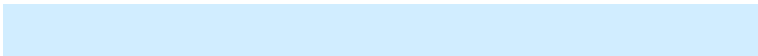
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



82.0621, 0.3127, 0.2988



82.0621, 0.3333, 0.3681



82.0621, 0.2764, 0.2950

# Square

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



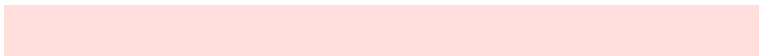
82.0621, 0.3333, 0.3681



82.0621, 0.2759, 0.3254



82.0621, 0.2915, 0.2924



82.0621, 0.3509, 0.3307

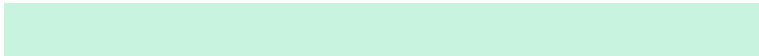


# Rectangle

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



82.0621, 0.3333, 0.3681



82.0621, 0.2971, 0.3522



82.0621, 0.2915, 0.2924



82.0621, 0.3276, 0.3074

# Sweetspot

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



82.0657, 0.3333, 0.3681



98.9417, 0.3192, 0.3413



65.2236, 0.3415, 0.3331



21.1467, 0.3202, 0.3430



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

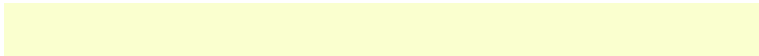


# Same Dimension

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



82.0657, 0.3333, 0.3681



96.2695, 0.3379, 0.3770



79.1671, 0.3207, 0.3697



17.5383, 0.3251, 0.3524



40.6661, 0.4002, 0.5204



3.2172, 0.4030, 0.5182



# Inverse Universe

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



60.2720, 0.2902, 0.2874



65.6044, 0.2846, 0.2772



62.9890, 0.3035, 0.2890



14.6280, 0.2997, 0.3047



3.4854, 0.1539, 0.0622

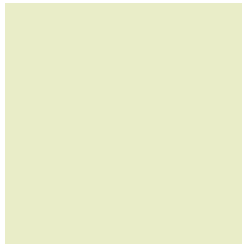


0.3000, 0.1626, 0.0669



# Previews

## White Background



This preview shows how the Yxy color 82.0621, 0.3333, 0.3681 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

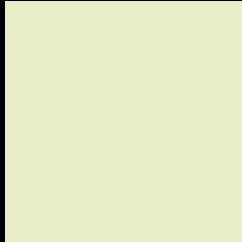
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.0621, 0.3333, 0.3681 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

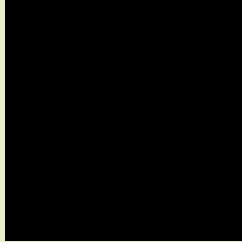
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

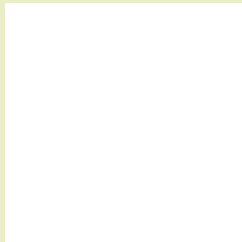
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 82.0621, 0.3333, 0.3681**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.0621, 0.3333, 0.3681.

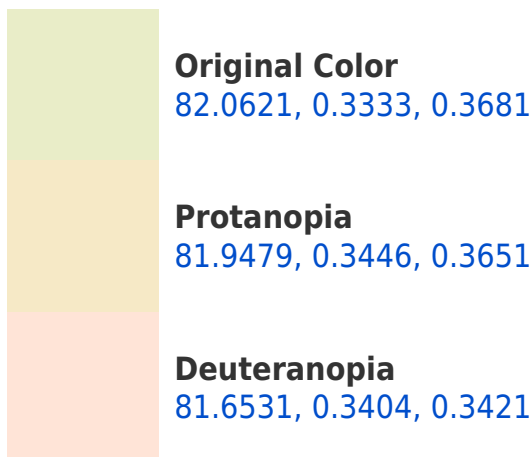


This preview shows how white text looks on a background with the Yxy color 82.0621, 0.3333, 0.3681.

# 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

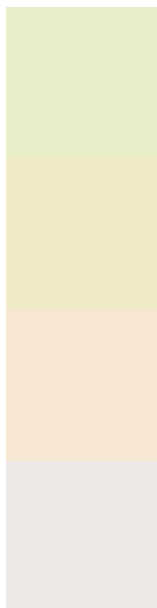




## Tritanopia

81.8962, 0.3082, 0.3109

# Trichromacy



## Original Color

82.0621, 0.3333, 0.3681

## Protanomaly

81.6699, 0.3401, 0.3655

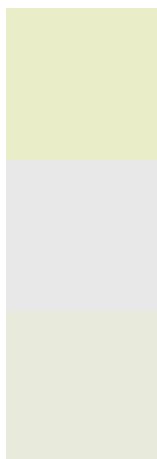
## Deuteranomaly

81.5791, 0.3376, 0.3505

## Tritanomaly

82.0519, 0.3167, 0.3311

# Monochromacy



## Original Color

82.0621, 0.3333, 0.3681

## Achromatopsia

80.6952, 0.3127, 0.3290

## Achromatomaly

81.1687, 0.3202, 0.3437

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.0621, 0.3333, 0.3681 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(233, 237, 200)` looks like.

```
.text, #text, p{  
    color:rgb(233, 237, 200)  
}
```

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(233, 237, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 237, 200) }
```

## Border

The CSS property to change the border of an element to Yxy 82.0621, 0.3333, 0.3681 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(233, 237, 200) }
```

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

```
.border{ border-color:rgb(233, 237, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 237, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 237, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 237, 200);  
box-shadow:4px 4px 4px 4px rgb(233, 237,  
200) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.0621, 0.3333, 0.3681 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 237, 200) }
```

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

```
.background{ background-color: rgb(233,  
237, 200) }
```

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