

# Converting Colors

$Y_{xy}(90.2409, 0.3551, 0.3461)$

Have a look what the booklet for  
Yxy(90.2409, 0.3551, 0.3461)  
contains.

<b>Yxy(85.6864, 0.3380, 0.3470)</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(85.6864, 0.3380, 0.3470)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEBD9
RGB	255, 235, 217
RGB Percent	100%, 92%, 85%
CMY	0.0001, 0.0784, 0.1490
CMYK	0.00, 0.08, 0.15, 0.00
HSL	28°, 100%, 93%
HSV	28°, 15%, 100%
XYZ	83.4640, 85.6864, 77.7845
YIQ	238.9280, 17.6980, -1.3580

# Conversions

## Conversions Part 2

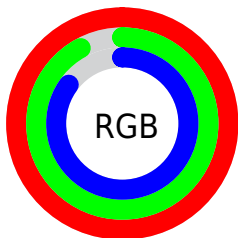
Format	Color
R <sub>Y</sub> B	255, 251, 217
Decimal	16772057
CIE Lab	94.18, 3.90, 11.17
CIE LCh	94, 11.833, 70.770
Yxy	85.6864, 0.3380, 0.3470
Android (android.graphics.Color)	4294962137 (0xFFFFEBD9)
YUV	238.9280, -10.8105, 14.0951
Hunter-Lab	92.5669, -1.0457, 14.9752

# Details

The Yxy color **85.6864, 0.3380, 0.3470** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **82.5108, 0.2893, 0.3103**, and the grayscale version is **86.3327, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **46.8546, 0.3438, 0.3507** is the 20% darker color. If you saturate the color by 10%, you get **77.0779, 0.3581, 0.3598**, and if you desaturate by 10%, it is **95.0854, 0.3204, 0.3347**.

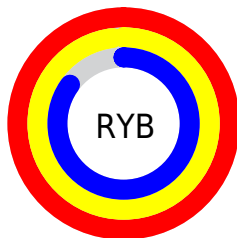
# Distribution



Red (100%)

Green (92%)

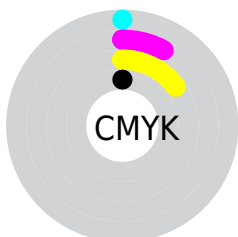
Blue (85%)



Red (100%)

Yellow (98%)

Blue (85%)

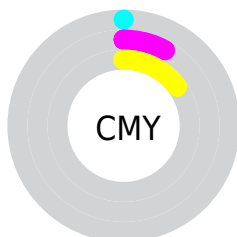


Cyan (0%)

Magenta (8%)

Yellow (15%)

Black (0%)



Cyan (0%)

Magenta (8%)


Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.6864, 0.3380, 0.3470 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 85.6864, 0.3380, 0.3470 by changing the saturation by 10% instead.



 85.6864, 0.3380,  
0.3470

 85.6864, 0.3380,  
0.3470


513.8966, 0.3266,  
0.3390

 64.4087, 0.3405,  
0.3488

141.3318, 0.3341,  
0.3443

 46.9818, 0.3436,  
0.3509


176.4682, 0.3326,  
0.3432

 33.0212, 0.3475,  
0.3535


216.9931, 0.3312,  
0.3423

 22.1427, 0.3525,  
0.3569

263.2907, 0.3301,  
0.3415

 13.9618, 0.3591,  
0.3613

315.7454, 0.3290,  
0.3407

 8.0941, 0.3684,  
0.3674

374.7417, 0.3281,

 4.1552, 0.3822,

0.3401

440.6640, 0.3273,  
0.3395

0.3762

■ 1.7608, 0.4048,  
0.3898

■ 0.4625, 0.5362,  
0.4638

■ 85.6864, 0.3380,  
0.3470

■ 85.6864, 0.3380,  
0.3470

■ 77.0779, 0.3581,  
0.3598

■ 95.0854, 0.3204,  
0.3347

■ 69.2265, 0.3809,  
0.3729

99.9942, 0.3127,  
0.3290

■ 62.1128, 0.4063,  
0.3855

■ 55.7121, 0.4340,  
0.3968

■ 49.9983, 0.4629,  
0.4056

■ 44.9428, 0.4917,  
0.4106

■ 40.5143, 0.5184,  
0.4106

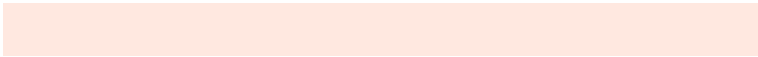
■ 36.6769, 0.5411,  
0.4050

■ 34.9251, 0.5512,  
0.4005

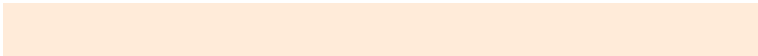
# Harmonies

## Analogous

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



85.6864, 0.3389, 0.3371



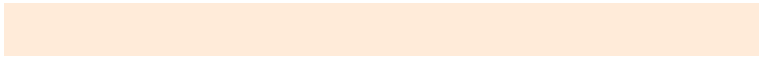
85.6864, 0.3380, 0.3470



85.6864, 0.3302, 0.3523

# Triad

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



85.6864, 0.3380, 0.3470



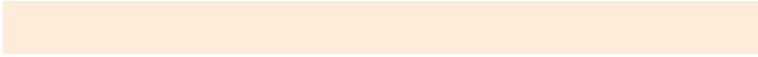
85.6864, 0.2932, 0.3323



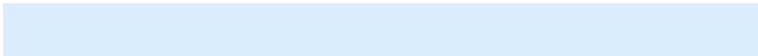
85.6864, 0.3072, 0.3079

# Complementary

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



85.6864, 0.3380, 0.3470



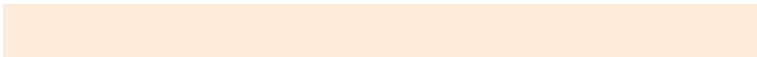
82.5108, 0.2893, 0.3103

# Split Complementary

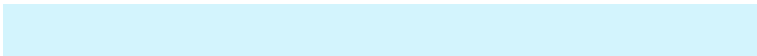
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



85.6864, 0.2952, 0.3063



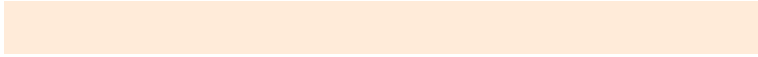
85.6864, 0.3380, 0.3470



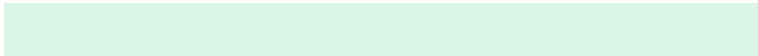
85.6864, 0.2873, 0.3200

# Square

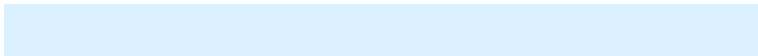
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



85.6864, 0.3380, 0.3470



85.6864, 0.3043, 0.3439



85.6864, 0.2880, 0.3106



85.6864, 0.3209, 0.3148



# Rectangle

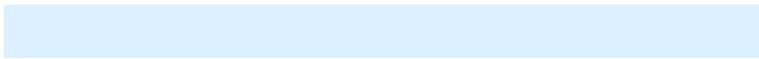
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



85.6864, 0.3380, 0.3470



85.6864, 0.3223, 0.3524



85.6864, 0.2880, 0.3106



85.6864, 0.3028, 0.3067

# Sweetspot

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



85.6902, 0.3380, 0.3470



95.9880, 0.3190, 0.3337



77.0090, 0.3264, 0.3089



20.3870, 0.3202, 0.3346



0.0000, 0.0000, 0.0000

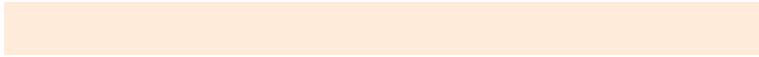


21.4041, 0.3127, 0.3290

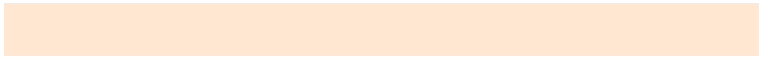


# Same Dimension

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



85.6902, 0.3380, 0.3470



82.9529, 0.3440, 0.3509



96.9599, 0.3353, 0.3649



19.4087, 0.3282, 0.3403



18.5481, 0.5485, 0.4027

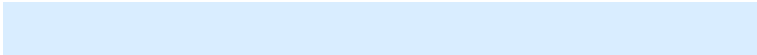


2.0229, 0.5300, 0.4174

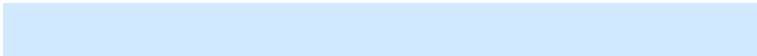


# Inverse Universe

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



82.5108, 0.2893, 0.3103



79.1925, 0.2843, 0.3060



72.2504, 0.2886, 0.2904



18.9577, 0.2979, 0.3174



12.9834, 0.1795, 0.1660

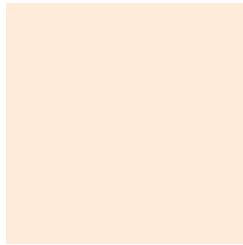


1.4830, 0.1850, 0.1858



# Previews

## White Background



This preview shows how the Yxy color 85.6864, 0.3380, 0.3470 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

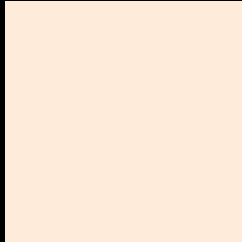
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.6864, 0.3380, 0.3470 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

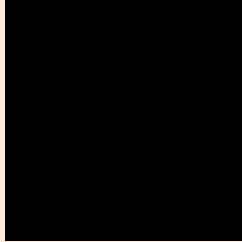
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 85.6864, 0.3380, 0.3470**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.6864, 0.3380, 0.3470.

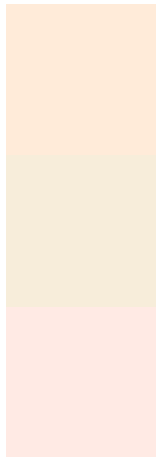


This preview shows how white text looks on a background with the Yxy color 85.6864, 0.3380, 0.3470.

# 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

85.6864, 0.3380, 0.3470

### Protanopia

85.4045, 0.3315, 0.3483

### Deuteranopia

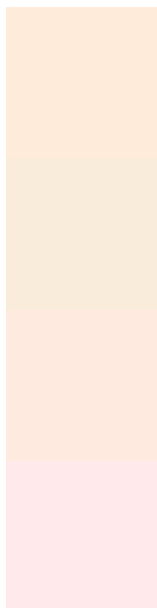
85.7071, 0.3309, 0.3350



## Tritanopia

85.6270, 0.3194, 0.3154

# Trichromacy



## Original Color

85.6864, 0.3380, 0.3470

## Protanomaly

85.3769, 0.3337, 0.3472

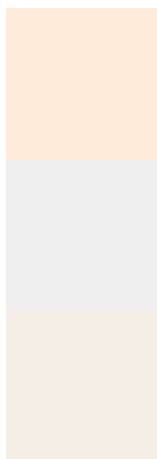
## Deuteranomaly

85.4875, 0.3335, 0.3390

## Tritanomaly

85.5360, 0.3265, 0.3271

# Monochromacy



## Original Color

85.6864, 0.3380, 0.3470

## Achromatopsia

86.3157, 0.3127, 0.3290

## Achromatomaly

86.3311, 0.3217, 0.3361

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.6864, 0.3380, 0.3470 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, 217)` looks like.

```
.text, #text, p{  
    color:rgb(255, 235, 217)  
}
```

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, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 235, 217) }
```

## Border

The CSS property to change the border of an element to Yxy 85.6864, 0.3380, 0.3470 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, 217) }
```

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

```
.border{ border-color:rgb(255, 235, 217) }
```

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, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 235, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 235, 217);  
box-shadow:4px 4px 4px 4px rgb(255, 235,  
217) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.6864, 0.3380, 0.3470 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, 217) }
```

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

```
.background{ background-color: rgb(255,  
235, 217) }
```

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