

# Converting Colors

$Y_{xy}(83.4722, 0.3350, 0.3371)$

Have a look what the booklet for  
Yxy(83.4722, 0.3350, 0.3371)  
contains.

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# Color

**Yxy(83.6858, 0.3353, 0.3380)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE7DE
RGB	255, 231, 222
RGB Percent	100%, 91%, 87%
CMY	0.0000, 0.0942, 0.1294
CMYK	0.00, 0.09, 0.13, 0.00
HSL	16°, 100%, 94%
HSV	16°, 13%, 100%
XYZ	83.0173, 83.6858, 80.8880
YIQ	237.1500, 17.1930, 2.2890

# Conversions

## Conversions Part 2

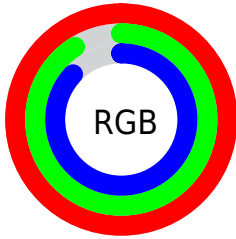
Format	Color
<a href="#">RYB</a>	<a href="#">255, 234, 222</a>
Decimal	<a href="#">16771038</a>
CIELab	<a href="#">93.31, 6.77, 7.34</a>
CIElCh	<a href="#">93, 9.981, 47.312</a>
Yxy	<a href="#">83.6858, 0.3353, 0.3380</a>
Android (android.graphics.Color)	<a href="#">4294961118</a> (0xFFFFE7DE)
YUV	<a href="#">237.1500, -7.4689, 15.6545</a>
Hunter-Lab	<a href="#">91.4799, 1.8974, 11.6108</a>

# Details

The Yxy color **83.6858, 0.3353, 0.3380** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **88.6746, 0.2926, 0.3198**, and the grayscale version is **84.8513, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.4557, 0.3403, 0.3393** is the 20% darker color. If you saturate the color by 10%, you get **72.5688, 0.3566, 0.3455**, and if you desaturate by 10%, it is **96.0960, 0.3174, 0.3310**.

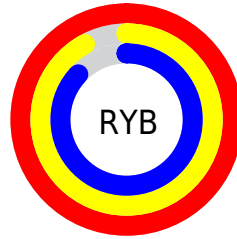
# Distribution



Red (100%)

Green (91%)

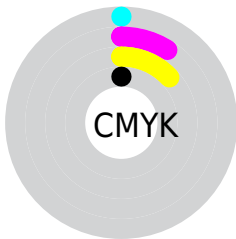
Blue (87%)



Red (100%)

Yellow (92%)

Blue (87%)

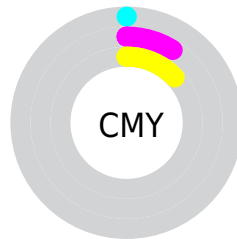


Cyan (0%)

Magenta (9%)

Yellow (13%)

Black (0%)



Cyan (0%)

Magenta (9%)


Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.6858, 0.3353, 0.3380 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 83.6858, 0.3353, 0.3380 by changing the saturation by 10% instead.




 83.6858, 0.3353,  
0.3380

 83.6858, 0.3353,  
0.3380


507.2693, 0.3251,  
0.3340

 62.7561, 0.3376,  
0.3389

138.5356, 0.3318,  
0.3367

 45.6439, 0.3404,  
0.3399


173.2244, 0.3304,  
0.3361

 31.9649, 0.3439,  
0.3412


213.2684, 0.3292,  
0.3357

 21.3347, 0.3485,  
0.3428

259.0519, 0.3282,  
0.3353

 13.3689, 0.3546,  
0.3450

310.9593, 0.3273,  
0.3349

 7.6830, 0.3632,  
0.3479

369.3751, 0.3264,

 3.8928, 0.3762,

0.3346

0.3520

434.6836, 0.3257,  
0.3343

■ 1.6138, 0.3981,  
0.3582

■ 0.3669, 0.5835,  
0.4165

■ 83.6858, 0.3353,  
0.3380

■ 83.6858, 0.3353,  
0.3380

■ 72.5688, 0.3566,  
0.3455

■ 96.0960, 0.3174,  
0.3310

■ 62.7244, 0.3820,  
0.3531

100.0000, 0.3127,  
0.3290

■ 54.0992, 0.4117,  
0.3605

■ 46.6443, 0.4457,  
0.3671

■ 40.3077, 0.4832,  
0.3717

■ 35.0329, 0.5221,  
0.3734

■ 30.7584, 0.5588,  
0.3709

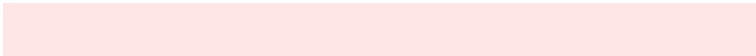
■ 27.4149, 0.5894,  
0.3639

■ 25.5657, 0.6060,  
0.3570

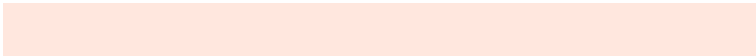
# Harmonies

## Analogous

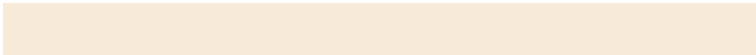
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.6858, 0.3312, 0.3281



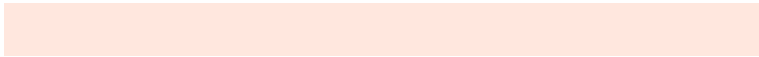
83.6858, 0.3353, 0.3380



83.6858, 0.3332, 0.3457

# Triad

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



83.6858, 0.3353, 0.3380



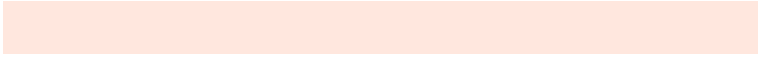
83.6858, 0.3032, 0.3397



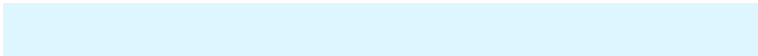
83.6858, 0.2998, 0.3095

# Complementary

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



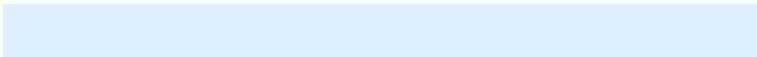
83.6858, 0.3353, 0.3380



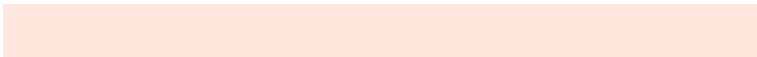
88.6746, 0.2926, 0.3198

# 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.



83.6858, 0.2926, 0.3121



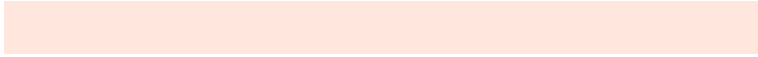
83.6858, 0.3353, 0.3380



83.6858, 0.2945, 0.3295

# Square

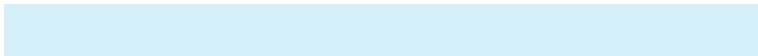
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.6858, 0.3353, 0.3380



83.6858, 0.3146, 0.3469



83.6858, 0.2907, 0.3194

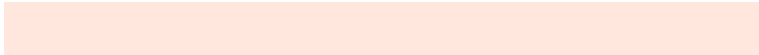


83.6858, 0.3105, 0.3119



# Rectangle

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



83.6858, 0.3353, 0.3380



83.6858, 0.3286, 0.3486



83.6858, 0.2907, 0.3194



83.6858, 0.2969, 0.3098

# Sweetspot

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



83.6782, 0.3353, 0.3380



94.7147, 0.3191, 0.3317



80.1721, 0.3200, 0.3053



20.0653, 0.3204, 0.3322



0.0000, 0.0000, 0.0000

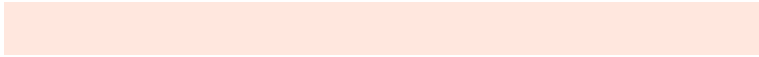


21.4041, 0.3127, 0.3290

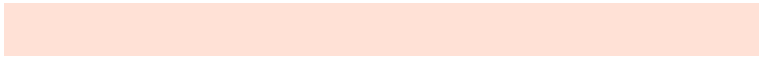


# Same Dimension

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



83.6782, 0.3353, 0.3380



80.1403, 0.3414, 0.3402



93.2403, 0.3331, 0.3539



18.7913, 0.3288, 0.3355



13.5693, 0.6031, 0.3593

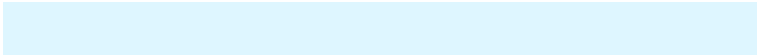


1.4935, 0.5812, 0.3767

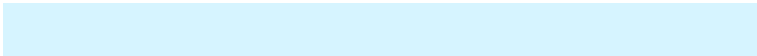


# Inverse Universe

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



88.6746, 0.2926, 0.3198



86.1850, 0.2879, 0.3175



79.1801, 0.2922, 0.3029



19.5961, 0.2980, 0.3224



22.2957, 0.1994, 0.2378

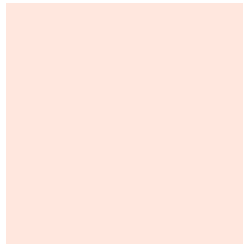


2.3527, 0.2026, 0.2495



# Previews

## White Background



This preview shows how the Yxy color 83.6858, 0.3353, 0.3380 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

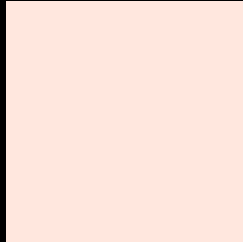
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.6858, 0.3353, 0.3380 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

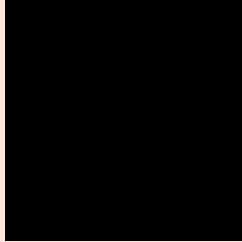
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.6858, 0.3353, 0.3380**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.6858, 0.3353, 0.3380.

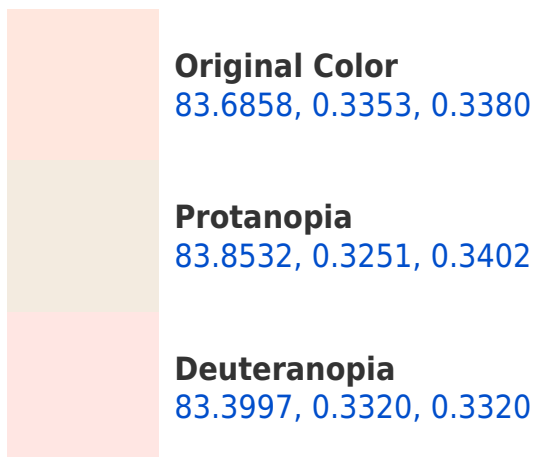


This preview shows how white text looks on a background with the Yxy color 83.6858, 0.3353, 0.3380.

# 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

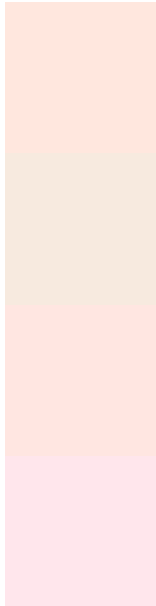




## Tritanopia

83.8303, 0.3209, 0.3144

# Trichromacy



## Original Color

83.6858, 0.3353, 0.3380

## Protanomaly

83.9475, 0.3286, 0.3402

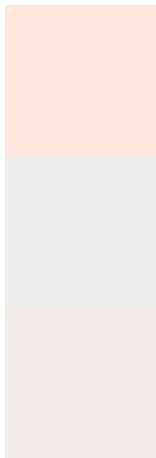
## Deuteranomaly

83.2899, 0.3334, 0.3340

## Tritanomaly

83.9098, 0.3261, 0.3231

# Monochromacy



## Original Color

83.6858, 0.3353, 0.3380

## Achromatopsia

84.6873, 0.3127, 0.3290

## Achromatomaly

84.4760, 0.3207, 0.3320

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.6858, 0.3353, 0.3380 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, 222)` looks like.

```
.text, #text, p{  
    color:rgb(255, 231, 222)  
}
```

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, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 231, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 83.6858, 0.3353, 0.3380 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, 222) }
```

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

```
.border{ border-color:rgb(255, 231, 222) }
```

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, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 231, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 231, 222);  
box-shadow:4px 4px 4px 4px rgb(255, 231,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.6858, 0.3353, 0.3380 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, 222) }
```

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

```
.background{ background-color: rgb(255,  
231, 222) }
```

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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