

# Converting Colors

$Y_{xy}(100.0000, 0.4044, 0.3614)$

Have a look what the booklet for  
Yxy(100.0000, 0.4044, 0.3614)  
contains.

<b>Yxy(83.4780, 0.3531, 0.3674)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(83.4780, 0.3531, 0.3674)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE9C3
RGB	255, 233, 195
RGB Percent	100%, 91%, 76%
CMY	0.0000, 0.0862, 0.2353
CMYK	0.00, 0.09, 0.24, 0.00
HSL	38°, 100%, 88%
HSV	38°, 24%, 100%
XYZ	80.2289, 83.4780, 63.5060
YIQ	235.2460, 25.3100, -7.1540

# Conversions

## Conversions Part 2

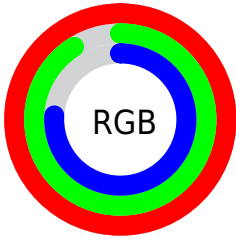
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	230, 255, 195
Decimal	16771523
CIE Lab	93.22, 1.74, 21.21
CIE LCh	93, 21.286, 85.298
Yxy	83.4780, 0.3531, 0.3674
Android (android.graphics.Color)	4294961603 (0xFFFFE9C3)
YUV	235.2460, -19.8413, 17.3243
Hunter-Lab	91.3663, -3.1499, 22.7457

# Details

The Yxy color **83.4780, 0.3531, 0.3674** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **68.4368, 0.2744, 0.2873**, and the grayscale version is **83.4157, 0.3127, 0.3290**.

A 20% lighter version of the original color is **99.8083, 0.3144, 0.3319**, and **45.3731, 0.3626, 0.3755** is the 20% darker color. If you saturate the color by 10%, you get **77.2723, 0.3732, 0.3844**, and if you desaturate by 10%, it is **90.1672, 0.3347, 0.3506**.

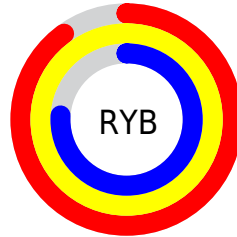
# Distribution



Red (100%)

Green (91%)

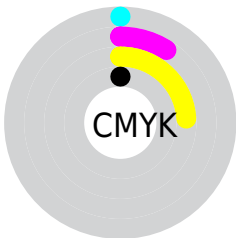
Blue (76%)



Red (90%)

Yellow (100%)

Blue (76%)

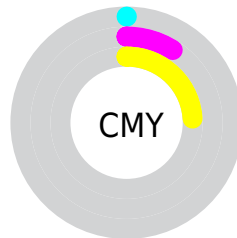


Cyan (0%)

Magenta (9%)

Yellow (24%)

Black (0%)



Cyan (0%)

Magenta (9%)


Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.4780, 0.3531, 0.3674 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 83.4780, 0.3531, 0.3674 by changing the saturation by 10% instead.




 83.4780, 0.3531,  
0.3674

 83.4780, 0.3531,  
0.3674


506.5782, 0.3349,  
0.3502

 62.5846, 0.3571,  
0.3712


138.2447, 0.3469,  
0.3615

 45.5052, 0.3621,  
0.3758

172.8868, 0.3444,  
0.3592

 31.8555, 0.3682,  
0.3815


212.8806, 0.3423,  
0.3572

 21.2512, 0.3760,  
0.3887

258.6104, 0.3405,  
0.3555

 13.3077, 0.3863,  
0.3982

310.4607, 0.3388,  
0.3539

 7.6408, 0.4003,  
0.4109

368.8158, 0.3374,

 3.8660, 0.4203,

0.3525

0.4288

434.0602, 0.3361,  
0.3513

■ 1.5989, 0.4809,  
0.4855

■ 0.3568, 0.5169,  
0.4831

■ 83.4780, 0.3531,  
0.3674

■ 83.4780, 0.3531,  
0.3674

■ 77.2723, 0.3732,  
0.3844

■ 90.1672, 0.3347,  
0.3506

■ 71.5263, 0.3946,  
0.4009

■ 97.3439, 0.3181,  
0.3345

■ 66.2281, 0.4169,  
0.4161

100.0000, 0.3127,  
0.3290

■ 61.3609, 0.4393,  
0.4288

■ 56.9068, 0.4606,  
0.4377

■ 52.8453, 0.4797,  
0.4419

■ 49.1525, 0.4956,  
0.4408

■ 46.9410, 0.5043,  
0.4378

# Harmonies

## Analogous

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



83.4780, 0.3614, 0.3523



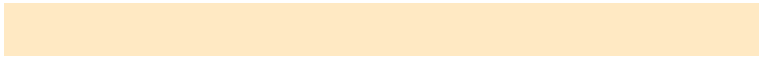
83.4780, 0.3531, 0.3674



83.4780, 0.3339, 0.3725

# Triad

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



83.4780, 0.3531, 0.3674



83.4780, 0.2711, 0.3233



83.4780, 0.3144, 0.2964

# Complementary

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



83.4780, 0.3531, 0.3674



68.4368, 0.2744, 0.2873

# 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.



83.4780, 0.2906, 0.2886



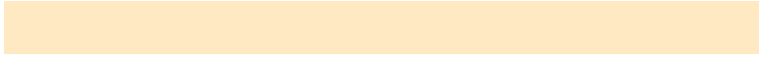
83.4780, 0.3531, 0.3674



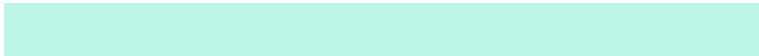
83.4780, 0.2663, 0.3030

# Square

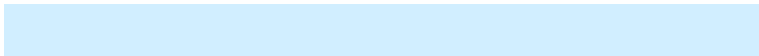
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.4780, 0.3531, 0.3674



83.4780, 0.2867, 0.3464



83.4780, 0.2733, 0.2907

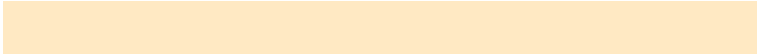


83.4780, 0.3386, 0.3121



# Rectangle

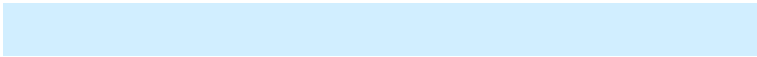
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.4780, 0.3531, 0.3674



83.4780, 0.3179, 0.3689



83.4780, 0.2733, 0.2907



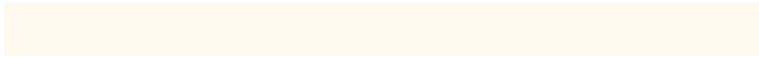
83.4780, 0.3060, 0.2928

# Sweetspot

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



83.4811, 0.3531, 0.3674



94.8001, 0.3237, 0.3400



65.2943, 0.3441, 0.3066



20.1976, 0.3247, 0.3410



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

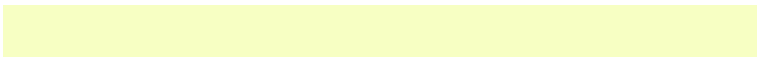
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.4811, 0.3531, 0.3674



80.6501, 0.3619, 0.3750



95.2335, 0.3430, 0.3891



19.9057, 0.3278, 0.3440



24.8223, 0.5026, 0.4392



2.6254, 0.4905, 0.4487



# Inverse Universe

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



68.4368, 0.2744, 0.2873



63.3393, 0.2666, 0.2782



58.9400, 0.2778, 0.2633



18.4678, 0.2979, 0.3135



8.1643, 0.1657, 0.1163



0.9947, 0.1719, 0.1388



# Previews

## White Background



This preview shows how the Yxy color 83.4780, 0.3531, 0.3674 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 83.4780, 0.3531, 0.3674 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

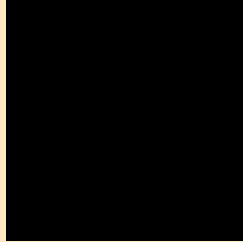
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.4780, 0.3531, 0.3674**

## Background



This preview shows how black text looks on a background with the Yxy color 83.4780, 0.3531, 0.3674.

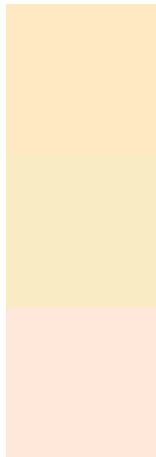


This preview shows how white text looks on a background with the Yxy color 83.4780, 0.3531, 0.3674.

# 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

83.4780, 0.3531, 0.3674

### Protanopia

83.5419, 0.3477, 0.3689

### Deuteranopia

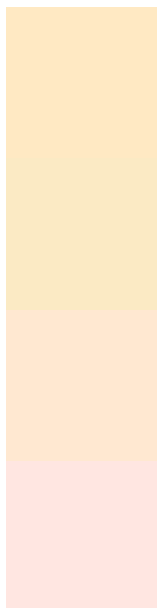
83.4216, 0.3386, 0.3431



## Tritanopia

83.7094, 0.3222, 0.3163

# Trichromacy



## Original Color

83.4780, 0.3531, 0.3674

## Protanomaly

83.3404, 0.3493, 0.3677

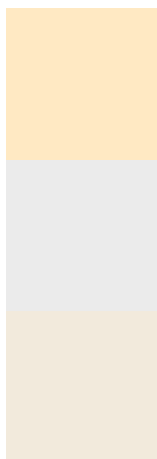
## Deuteranomaly

83.5767, 0.3438, 0.3521

## Tritanomaly

83.2899, 0.3334, 0.3340

# Monochromacy



## Original Color

83.4780, 0.3531, 0.3674

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

82.8902, 0.3271, 0.3434

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.4780, 0.3531, 0.3674 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, 233, 195)` looks like.

```
.text, #text, p{  
    color:rgb(255, 233, 195)  
}
```

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, 233, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 233, 195) }
```

## Border

The CSS property to change the border of an element to Yxy 83.4780, 0.3531, 0.3674 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, 233, 195) }
```

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

```
.border{ border-color:rgb(255, 233, 195) }
```

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

Here you see how a box with a 4 pixel rgb(255, 233, 195) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 233, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 233, 195);  
box-shadow:4px 4px 4px 4px rgb(255, 233,  
195) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.4780, 0.3531, 0.3674 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 233, 195) }
```

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

```
.background{ background-color: rgb(255,  
233, 195) }
```

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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