

# Converting Colors

$Y_{xy}(100.0000, 0.4211, 0.3796)$

Have a look what the booklet for  
Yxy(100.0000, 0.4211, 0.3796)  
contains.

<b>Yxy(83.0842, 0.3682, 0.3916)</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(83.0842, 0.3682, 0.3916)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE AAC
RGB	255, 234, 172
RGB Percent	100%, 92%, 67%
CMY	0.0000, 0.0824, 0.3254
CMYK	0.00, 0.08, 0.33, 0.00
HSL	45°, 100%, 84%
HSV	45°, 33%, 100%
XYZ	78.1195, 83.0842, 50.9623
YIQ	233.2110, 32.4180, -14.8300

# Conversions

## Conversions Part 2

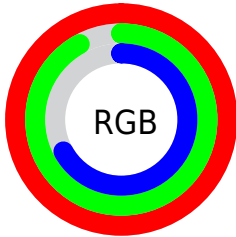
Format	Color
R <sub>Y</sub> B	200, 255, 172
Decimal	16771756
CIE Lab	93.05, -1.69, 32.74
CIE LCh	93, 32.779, 92.958
Yxy	83.0842, 0.3682, 0.3916
Android (android.graphics.Color)	4294961836 (0xFFFFEAAAC)
YUV	233.2110, -30.1770, 19.1090
Hunter-Lab	91.1505, -6.5321, 30.6563

# Details

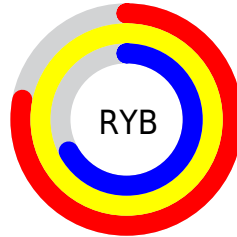
The Yxy color **83.0842, 0.3682, 0.3916** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **54.1486, 0.2572, 0.2572**, and the grayscale version is **81.8651, 0.3127, 0.3290**.

A 20% lighter version of the original color is **98.3814, 0.3286, 0.3552**, and **45.0430, 0.3801, 0.4049** is the 20% darker color. If you saturate the color by 10%, you get **78.5853, 0.3872, 0.4107**, and if you desaturate by 10%, it is **87.9011, 0.3498, 0.3720**.

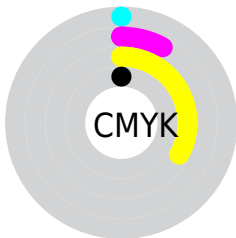
# Distribution



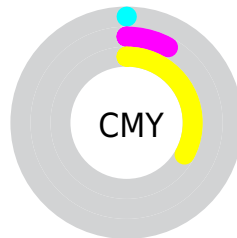
- Red (100%)
- Green (92%)
- Blue (67%)



- Red (78%)
- Yellow (100%)
- Blue (67%)



- Cyan (0%)
- Magenta (8%)
- Yellow (33%)
- Black (0%)




- Cyan (0%)
- Magenta (8%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.0842, 0.3682, 0.3916 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 83.0842, 0.3682, 0.3916 by changing the saturation by 10% instead.




 83.0842, 0.3682,  
0.3916

 83.0842, 0.3682,  
0.3916

505.2671, 0.3435,  
0.3635

 62.2596, 0.3736,  
0.3977


 137.6934, 0.3598,  
0.3821

 45.2425, 0.3800,  
0.4051


172.2468, 0.3565,  
0.3783

 31.6485, 0.3879,  
0.4142


212.1452, 0.3536,  
0.3750

 21.0931, 0.3977,  
0.4257

257.7731, 0.3511,  
0.3722

 13.1921, 0.4101,  
0.4402

309.5149, 0.3489,  
0.3696

 7.5610, 0.4259,  
0.4590

367.7548, 0.3469,

 3.8153, 0.4497,

0.3674

0.4877

432.8774, 0.3451,  
0.3653

■ 1.5708, 0.4771,  
0.5229

■ 0.3378, 0.4530,  
0.5470

■ 83.0842, 0.3682,  
0.3916

■ 83.0842, 0.3682,  
0.3916

■ 78.5853, 0.3872,  
0.4107

■ 87.9011, 0.3498,  
0.3720

■ 74.3981, 0.4063,  
0.4283

■ 93.0532, 0.3325,  
0.3525

■ 70.5073, 0.4246,  
0.4433

■ 98.5492, 0.3166,  
0.3336

■ 66.8982, 0.4414,  
0.4547

100.0000, 0.3127,  
0.3290

■ 63.5539, 0.4557,  
0.4615

■ 60.4543, 0.4670,  
0.4634

■ 58.2793, 0.4737,  
0.4621

# Harmonies

## Analogous

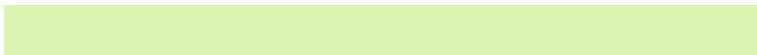
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.0842, 0.3866, 0.3704



83.0842, 0.3682, 0.3916



83.0842, 0.3353, 0.3962

# Triad

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



83.0842, 0.3682, 0.3916



83.0842, 0.2462, 0.3104



83.0842, 0.3247, 0.2851

# Complementary

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



83.0842, 0.3682, 0.3916



54.1486, 0.2572, 0.2572

# 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.



83.0842, 0.2870, 0.2701



83.0842, 0.3682, 0.3916



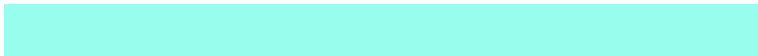
83.0842, 0.2436, 0.2823

# Square

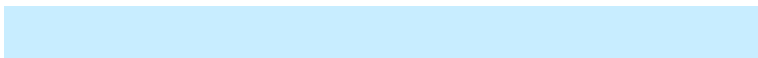
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.0842, 0.3682, 0.3916



83.0842, 0.2654, 0.3468



83.0842, 0.2581, 0.2686



83.0842, 0.3609, 0.3103

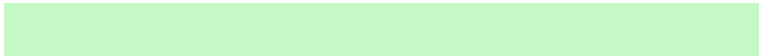


# Rectangle

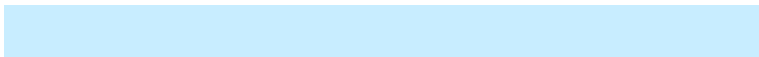
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.0842, 0.3682, 0.3916



83.0842, 0.3101, 0.3875



83.0842, 0.2581, 0.2686



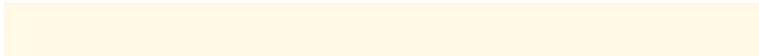
83.0842, 0.3117, 0.2788

# Sweetspot

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



83.0822, 0.3682, 0.3916



94.4151, 0.3284, 0.3476



54.6777, 0.3681, 0.3061



20.0467, 0.3307, 0.3503



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

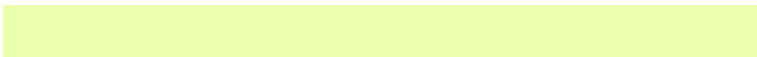
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.0822, 0.3682, 0.3916



80.1402, 0.3804, 0.4041



92.2709, 0.3488, 0.4143



20.2662, 0.3275, 0.3467



30.7035, 0.4726, 0.4629



3.1638, 0.4652, 0.4688



# Inverse Universe

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



54.1486, 0.2572, 0.2572



47.1799, 0.2450, 0.2401



47.8625, 0.2676, 0.2355



18.1249, 0.2979, 0.3107



5.9208, 0.1581, 0.0891



0.7420, 0.1639, 0.1100



# Previews

## White Background



This preview shows how the Yxy color 83.0842, 0.3682, 0.3916 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 83.0842, 0.3682, 0.3916 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

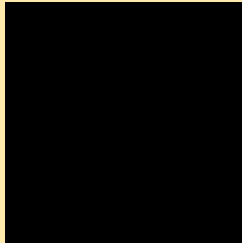
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.0842, 0.3682, 0.3916**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.0842, 0.3682, 0.3916.

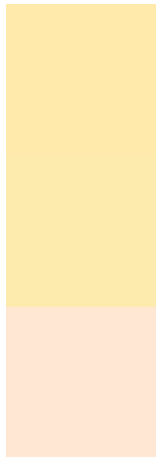


This preview shows how white text looks on a background with the Yxy color 83.0842, 0.3682, 0.3916.

# 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

83.0842, 0.3682, 0.3916

### Protanopia

83.0907, 0.3657, 0.3931

### Deuteranopia

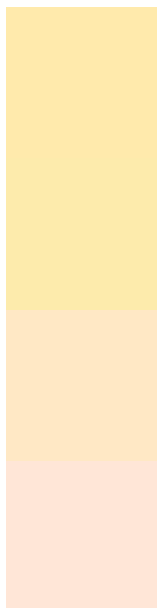
83.1150, 0.3427, 0.3491



## Tritanopia

83.0381, 0.3236, 0.3172

# Trichromacy



## Original Color

83.0842, 0.3682, 0.3916

## Protanomaly

83.2779, 0.3664, 0.3929

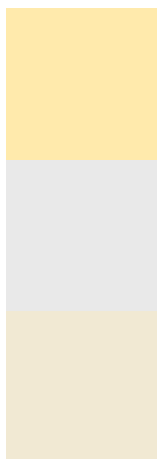
## Deuteranomaly

83.0044, 0.3520, 0.3644

## Tritanomaly

82.7599, 0.3401, 0.3441

# Monochromacy



## Original Color

83.0842, 0.3682, 0.3916

## Achromatopsia

81.4847, 0.3127, 0.3290

## Achromatomaly

81.6817, 0.3324, 0.3518

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.0842, 0.3682, 0.3916 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, 234, 172)` looks like.

```
.text, #text, p{  
    color:rgb(255, 234, 172)  
}
```

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, 234, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 234, 172) }
```

## Border

The CSS property to change the border of an element to Yxy 83.0842, 0.3682, 0.3916 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, 234, 172) }
```

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

```
.border{ border-color:rgb(255, 234, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 234, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 234, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 234, 172);  
box-shadow:4px 4px 4px 4px rgb(255, 234,  
172) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.0842, 0.3682, 0.3916 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 234, 172) }
```

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

```
.background{ background-color: rgb(255,  
234, 172) }
```

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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