

# Converting Colors

$Y_{xy}(100.0000, 0.4017, 0.3510)$

Have a look what the booklet for  
Yxy(100.0000, 0.4017, 0.3510)  
contains.

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# Color

**Yxy(82.7715, 0.3474, 0.3563)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE7CC
RGB	255, 231, 204
RGB Percent	100%, 91%, 80%
CMY	0.0001, 0.0940, 0.2001
CMYK	0.00, 0.09, 0.20, 0.00
HSL	32°, 100%, 90%
HSV	32°, 20%, 100%
XYZ	80.7040, 82.7715, 68.8330
YIQ	235.0980, 22.9710, -3.3090

# Conversions

## Conversions Part 2

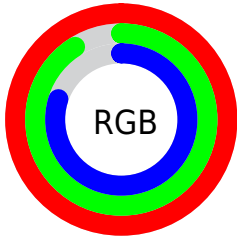
Format	Color
R <sub>Y</sub> B	249, 255, 204
Decimal	16771020
CIE Lab	92.91, 4.01, 16.13
CIE LCh	93, 16.624, 76.050
Yxy	82.7715, 0.3474, 0.3563
Android (android.graphics.Color)	4294961100 (0xFFFFE7CC)
YUV	235.0980, -15.3313, 17.4541
Hunter-Lab	90.9788, -0.8723, 18.8274

# Details

The Yxy color **82.7715, 0.3474, 0.3563** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **75.4978, 0.2809, 0.3001**, and the grayscale version is **83.2608, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.8677, 0.3553, 0.3613** is the 20% darker color. If you saturate the color by 10%, you get **75.1739, 0.3682, 0.3707**, and if you desaturate by 10%, it is **91.0355, 0.3289, 0.3423**.

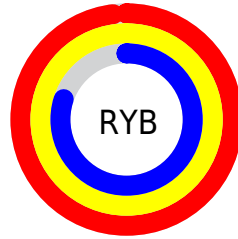
# Distribution



Red (100%)

Green (91%)

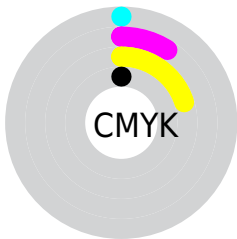
Blue (80%)



Red (98%)

Yellow (100%)

Blue (80%)

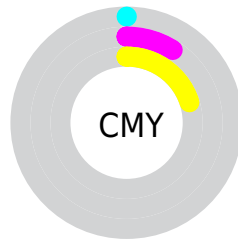


Cyan (0%)

Magenta (9%)

Yellow (20%)

Black (0%)



Cyan (0%)

Magenta (9%)


Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.7715, 0.3474, 0.3563 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 82.7715, 0.3474, 0.3563 by changing the saturation by 10% instead.




 82.7715, 0.3474,  
0.3563

 82.7715, 0.3474,  
0.3563


504.2247, 0.3317,  
0.3441

 62.0017, 0.3509,  
0.3590


137.2554, 0.3420,  
0.3521

 45.0340, 0.3552,  
0.3622


171.7382, 0.3399,  
0.3505

 31.4842, 0.3606,  
0.3663


211.5609, 0.3381,  
0.3491

 20.9679, 0.3675,  
0.3714

257.1077, 0.3365,  
0.3478

 13.1005, 0.3767,  
0.3782

308.7631, 0.3350,  
0.3467

 7.4978, 0.3896,  
0.3874

366.9114, 0.3338,

 3.7753, 0.4085,

0.3458

0.4004

431.9372, 0.3327,  
0.3449

■ 1.5487, 0.4501,  
0.4307

■ 0.3226, 0.5563,  
0.4437

■ 82.7715, 0.3474,  
0.3563

■ 82.7715, 0.3474,  
0.3563

■ 75.1739, 0.3682,  
0.3707

■ 91.0355, 0.3289,  
0.3423

■ 68.2126, 0.3912,  
0.3850

99.9726, 0.3127,  
0.3290

■ 61.8715, 0.4162,  
0.3985

99.9942, 0.3127,  
0.3290

■ 56.1293, 0.4425,  
0.4099

■ 50.9630, 0.4689,  
0.4182

■ 46.3475, 0.4940,  
0.4220

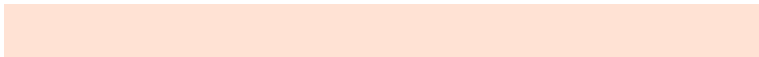
■ 42.2543, 0.5162,  
0.4205

■ 38.6433, 0.5345,  
0.4138

# Harmonies

## Analogous

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



82.7715, 0.3506, 0.3429



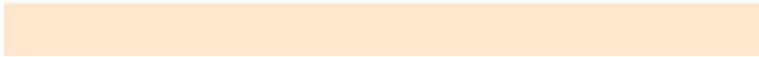
82.7715, 0.3474, 0.3563



82.7715, 0.3348, 0.3627

# Triad

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



82.7715, 0.3474, 0.3563



82.7715, 0.2830, 0.3303



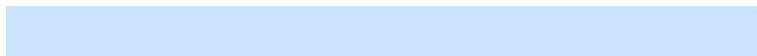
82.7715, 0.3081, 0.3006

# Complementary

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



82.7715, 0.3474, 0.3563



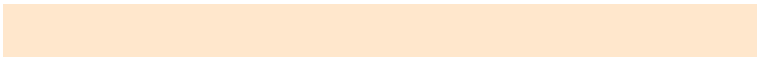
75.4978, 0.2809, 0.3001

# Split Complementary

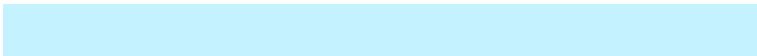
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



82.7715, 0.2904, 0.2968



82.7715, 0.3474, 0.3563



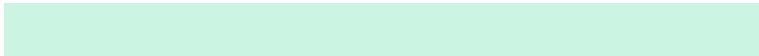
82.7715, 0.2763, 0.3132

# Square

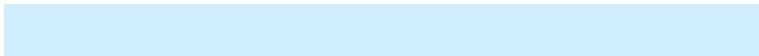
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



82.7715, 0.3474, 0.3563



82.7715, 0.2975, 0.3477



82.7715, 0.2790, 0.3011



82.7715, 0.3275, 0.3113



# Rectangle

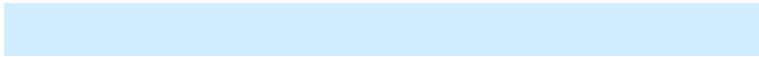
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



82.7715, 0.3474, 0.3563



82.7715, 0.3229, 0.3618



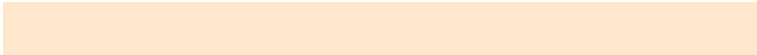
82.7715, 0.2790, 0.3011



82.7715, 0.3018, 0.2984

# Sweetspot

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



82.7752, 0.3474, 0.3563



94.5540, 0.3222, 0.3369



70.0643, 0.3339, 0.3042



20.1147, 0.3233, 0.3378



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.



82.7752, 0.3474, 0.3563



79.6783, 0.3554, 0.3620



96.9524, 0.3424, 0.3791



19.5820, 0.3281, 0.3416



20.4992, 0.5322, 0.4157

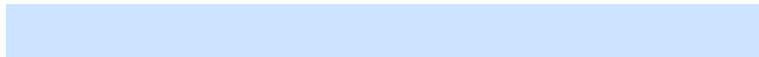


2.2148, 0.5158, 0.4287

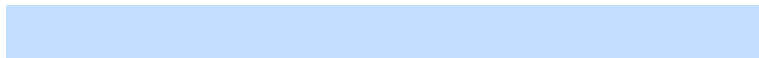


# Inverse Universe

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



75.4978, 0.2809, 0.3001



71.1947, 0.2742, 0.2935



63.3463, 0.2797, 0.2736



18.7845, 0.2979, 0.3161



11.0552, 0.1743, 0.1474

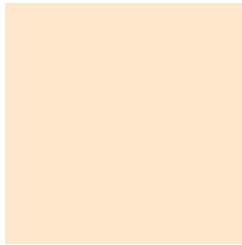


1.2929, 0.1802, 0.1687



# Previews

## White Background



This preview shows how the Yxy color 82.7715, 0.3474, 0.3563 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 82.7715, 0.3474, 0.3563 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

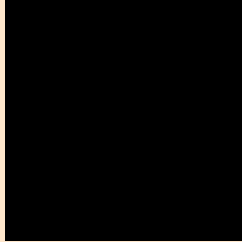
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 82.7715, 0.3474, 0.3563**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.7715, 0.3474, 0.3563.

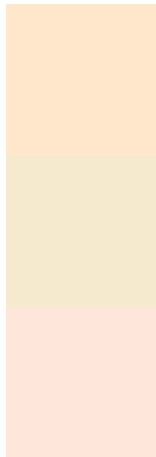


This preview shows how white text looks on a background with the Yxy color 82.7715, 0.3474, 0.3563.

# 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

82.7715, 0.3474, 0.3563

### Protanopia

82.8947, 0.3391, 0.3577

### Deuteranopia

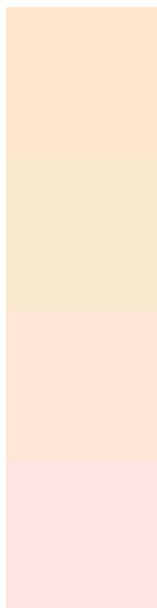
82.9156, 0.3381, 0.3411



## Tritanopia

82.5490, 0.3231, 0.3153

# Trichromacy



## Original Color

82.7715, 0.3474, 0.3563

## Protanomaly

82.8253, 0.3420, 0.3576

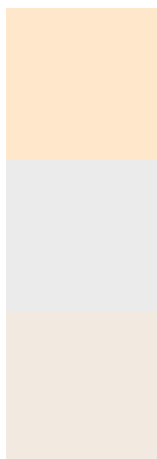
## Deuteranomaly

82.6577, 0.3415, 0.3461

## Tritanomaly

82.3482, 0.3316, 0.3291

# Monochromacy



## Original Color

82.7715, 0.3474, 0.3563

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

83.1047, 0.3245, 0.3392

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.7715, 0.3474, 0.3563 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, 204)` looks like.

```
.text, #text, p{  
    color:rgb(255, 231, 204)  
}
```

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, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 231, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 82.7715, 0.3474, 0.3563 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, 204) }
```

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

```
.border{ border-color:rgb(255, 231, 204) }
```

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, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 231, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 231, 204);  
box-shadow:4px 4px 4px 4px rgb(255, 231,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.7715, 0.3474, 0.3563 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, 204) }
```

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

```
.background{ background-color: rgb(255,  
231, 204) }
```

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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