

# Converting Colors

$Y_{xy}(76.3034, 0.4132, 0.4270)$

Have a look what the booklet for  
Yxy(76.3034, 0.4132, 0.4270)  
contains.

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# Color

**Yxy(74.8586, 0.4064, 0.4300)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFDE78
RGB	255, 222, 120
RGB Percent	100%, 87%, 47%
CMY	0.0000, 0.1294, 0.5295
CMYK	0.00, 0.13, 0.53, 0.00
HSL	45°, 100%, 74%
HSV	45°, 53%, 100%
XYZ	70.7501, 74.8586, 28.4811
YIQ	220.2390, 52.4100, -24.7260

# Conversions

## Conversions Part 2

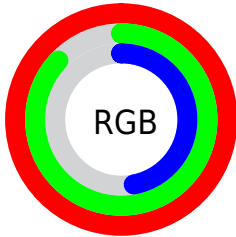
Format	Color
<a href="#">RYB</a>	<a href="#">164, 255, 120</a>
Decimal	<a href="#">16768632</a>
CIELab	<a href="#">89.33, -0.85, 53.69</a>
CIElCh	<a href="#">89, 53.697, 90.911</a>
Yxy	<a href="#">74.8586, 0.4064, 0.4300</a>
Android (android.graphics.Color)	<a href="#">4294958712 (0xFFFFDE78)</a>
YUV	<a href="#">220.2390, -49.4178, 30.4854</a>
Hunter-Lab	<a href="#">86.5209, -5.4480, 41.0474</a>

# Details

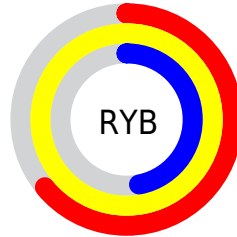
The Yxy color **74.8586, 0.4064, 0.4300** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **33.9833, 0.2182, 0.1995**, and the grayscale version is **72.0709, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.8360, 0.3608, 0.4086**, and **39.7906, 0.4248, 0.4492** is the 20% darker color. If you saturate the color by 10%, you get **71.0743, 0.4244, 0.4450**, and if you desaturate by 10%, it is **78.9371, 0.3876, 0.4123**.

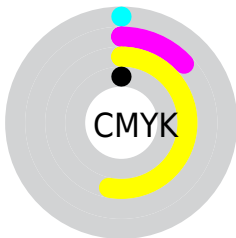
# Distribution



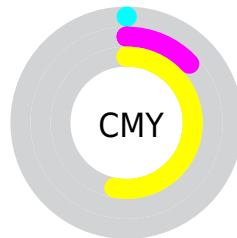
- Red (100%)
- Green (87%)
- Blue (47%)



- Red (64%)
- Yellow (100%)
- Blue (47%)



- Cyan (0%)
- Magenta (13%)
- Yellow (53%)
- Black (0%)




- Cyan (0%)
- Magenta (13%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 74.8586, 0.4064, 0.4300 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 74.8586, 0.4064, 0.4300 by changing the saturation by 10% instead.





 74.8586, 0.4064,  
0.4300

 74.8586, 0.4064,  
0.4300

477.4314, 0.3653,  
0.3855

 55.4971, 0.4148,  
0.4392

 126.1122, 0.3928,  
0.4153

 39.7998, 0.4246,  
0.4499

 158.7730, 0.3873,  
0.4093

 27.3825, 0.4360,  
0.4624


 196.6357, 0.3825,  
0.4041

 17.8607, 0.4490,  
0.4767

240.0847, 0.3782,  
0.3995

 10.8500, 0.4629,  
0.4923

289.5044, 0.3744,  
0.3954

 5.9661, 0.4840,  
0.5160

345.2791, 0.3711,

 2.8245, 0.4831,

0.3917

407.7934, 0.3680,  
0.3884

0.5169

1.0408, 0.4814,  
0.5186

0.0000, 0.0000,  
0.0000

74.8586, 0.4064,  
0.4300

74.8586, 0.4064,  
0.4300

71.0743, 0.4244,  
0.4450

78.9371, 0.3876,  
0.4123

67.5589, 0.4408,  
0.4564


83.3124, 0.3687,  
0.3931


64.2991, 0.4546,  
0.4631

88.0001, 0.3505,  
0.3733

61.2748, 0.4654,  
0.4650

93.0115, 0.3332,  
0.3535

 59.2642, 0.4715,  
0.4638

 98.3570, 0.3172,  
0.3345

99.9999, 0.3127,  
0.3290

# Harmonies

## Analogous

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



74.8586, 0.4377, 0.3894



74.8586, 0.4064, 0.4300



74.8586, 0.3516, 0.4464

# Triad

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



74.8586, 0.4064, 0.4300



74.8586, 0.2056, 0.2982



74.8586, 0.3269, 0.2560

# Complementary

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



74.8586, 0.4064, 0.4300



33.9833, 0.2182, 0.1995

# 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.



74.8586, 0.2651, 0.2336



74.8586, 0.4064, 0.4300



74.8586, 0.2007, 0.2522

# Square

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



74.8586, 0.4064, 0.4300



74.8586, 0.2364, 0.3629



74.8586, 0.2211, 0.2313



74.8586, 0.3906, 0.2939

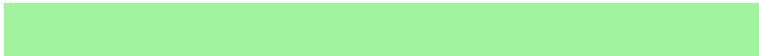


# Rectangle

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



74.8586, 0.4064, 0.4300



74.8586, 0.3098, 0.4351



74.8586, 0.2211, 0.2313



74.8586, 0.3050, 0.2466

# Sweetspot

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



74.8621, 0.4064, 0.4300



91.4488, 0.3383, 0.3595



37.0113, 0.4283, 0.2948



19.3517, 0.3419, 0.3636



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.



74.8621, 0.4064, 0.4300



70.6932, 0.4262, 0.4464



88.2855, 0.3663, 0.4684



20.2945, 0.3275, 0.3469



31.2133, 0.4704, 0.4647



3.2097, 0.4633, 0.4703



# Inverse Universe

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



33.9833, 0.2182, 0.1995



25.8999, 0.1983, 0.1676



27.4910, 0.2327, 0.1682



18.0985, 0.2979, 0.3105



5.7841, 0.1576, 0.0873



0.7255, 0.1633, 0.1080



# Previews

## White Background



This preview shows how the Yxy color 74.8586, 0.4064, 0.4300 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

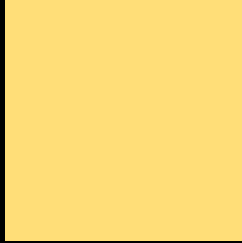
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 74.8586, 0.4064, 0.4300 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 74.8586, 0.4064, 0.4300**

## **Background**



This preview shows how black text looks on a background with the Yxy color 74.8586, 0.4064, 0.4300.



This preview shows how white text looks on a background with the Yxy color 74.8586, 0.4064, 0.4300.

# 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

74.8586, 0.4064, 0.4300

### Protanopia

75.0051, 0.3980, 0.4344

### Deuteranopia

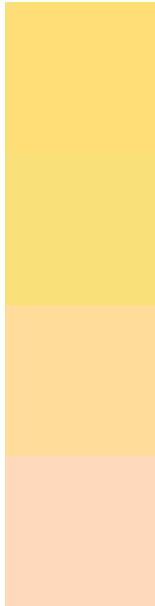
74.9790, 0.3714, 0.3753



## Tritanopia

74.8441, 0.3347, 0.3170

# Trichromacy



**Original Color**

74.8586, 0.4064, 0.4300

**Protanomaly**

75.0158, 0.4009, 0.4325

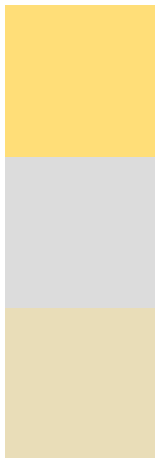
**Deuteranomaly**

74.7795, 0.3852, 0.3965

**Tritanomaly**

74.4736, 0.3625, 0.3599

# Monochromacy



**Original Color**

74.8586, 0.4064, 0.4300

**Achromatopsia**

71.5694, 0.3127, 0.3290

**Achromatomaly**

72.4972, 0.3469, 0.3692

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 74.8586, 0.4064, 0.4300 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, 222, 120)` looks like.

```
.text, #text, p{  
    color:rgb(255, 222, 120)  
}
```

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, 222, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 222, 120) }
```

## Border

The CSS property to change the border of an element to Yxy 74.8586, 0.4064, 0.4300 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, 222, 120) }
```

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

```
.border{ border-color:rgb(255, 222, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 222, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 222, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 222, 120);  
box-shadow:4px 4px 4px 4px rgb(255, 222,  
120) }
```



# Background

The CSS property to change the background color of an element to Yxy 74.8586, 0.4064, 0.4300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 222, 120) }
```

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

```
.background{ background-color: rgb(255,  
222, 120) }
```

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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