

# Converting Colors

$Y_{xy}(65.6929, 0.4214, 0.3979)$

Have a look what the booklet for  
Yxy(65.6929, 0.4214, 0.3979)  
contains.

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# Color

**Yxy(63.6918, 0.4129, 0.4008)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FFC781
RGB	255, 199, 129
RGB Percent	100%, 78%, 51%
CMY	0.0002, 0.2195, 0.4941
CMYK	0.00, 0.22, 0.49, 0.00
HSL	33°, 100%, 75%
HSV	33°, 49%, 100%
XYZ	65.6146, 63.6918, 29.6052
YIQ	207.7640, 55.8460, -9.8980

# Conversions

## Conversions Part 2

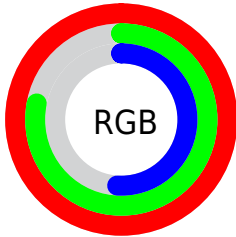
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	230, 255, 129
Decimal	16762753
CIE <sub>Lab</sub>	83.81, 11.71, 42.51
CIE <sub>LCh</sub>	84, 44.091, 74.604
Yxy	63.6918, 0.4129, 0.4008
Android (android.graphics.Color)	4294952833 (0xFFFFC781)
YUV	207.7640, -38.8307, 41.4260
Hunter-Lab	79.8071, 7.0939, 33.8708

# Details

The Yxy color **63.6918, 0.4129, 0.4008** is a light color, and the websafe version is hex **FFCC99**. A complement of this color would be **46.5572, 0.2312, 0.2422**, and the grayscale version is **63.1452, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.1989, 0.3556, 0.3998**, and **32.5366, 0.4366, 0.4146** is the 20% darker color. If you saturate the color by 10%, you get **58.0805, 0.4382, 0.4130**, and if you desaturate by 10%, it is **69.8661, 0.3887, 0.3867**.

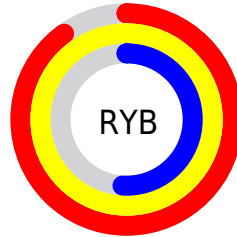
# Distribution



Red (100%)

Green (78%)

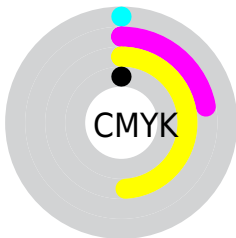
Blue (51%)



Red (90%)

Yellow (100%)

Blue (51%)

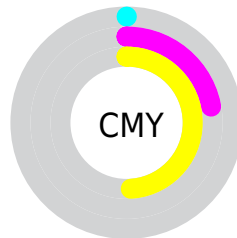


Cyan (0%)

Magenta (22%)

Yellow (49%)

Black (0%)



Cyan (0%)

Magenta (22%)


Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.6918, 0.4129, 0.4008 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 63.6918, 0.4129, 0.4008 by changing the saturation by 10% instead.





 63.6918, 0.4129,  
0.4008


 63.6918, 0.4129,  
0.4008


438.0758, 0.3661,  
0.3691


 46.4011, 0.4233,  
0.4073


 110.1670, 0.3968,  
0.3903

 32.5625, 0.4360,  
0.4149


 140.1202, 0.3905,  
0.3861

 21.7915, 0.4515,  
0.4237


 175.0631, 0.3850,  
0.3824

 13.7038, 0.4707,  
0.4335

215.3800, 0.3803,  
0.3791

 7.9149, 0.4943,  
0.4435

261.4553, 0.3761,  
0.3762

 4.0405, 0.5367,  
0.4633

313.6735, 0.3724,

 1.6963, 0.5525,

0.3736

0.4475

372.4189, 0.3691,  
0.3712

0.4212, 0.6196,  
0.3804

0.0000, 0.0000,  
0.0000

63.6918, 0.4129,  
0.4008

63.6918, 0.4129,  
0.4008

58.0805, 0.4382,  
0.4130

69.8661, 0.3887,  
0.3867

53.0017, 0.4635,  
0.4221

76.6137, 0.3663,  
0.3717

48.4353, 0.4874,  
0.4267

83.9562, 0.3460,  
0.3567

44.3548, 0.5085,  
0.4261

91.9109, 0.3279,  
0.3421

■ 40.7241, 0.5259, 99.9920, 0.3127,  
0.4202 0.3290

■ 40.5190, 0.5269,  
0.4198

# Harmonies

## Analogous

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



63.6918, 0.4232, 0.3604



63.6918, 0.4129, 0.4008



63.6918, 0.3752, 0.4270

# Triad

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



63.6918, 0.4129, 0.4008



63.6918, 0.2309, 0.3324



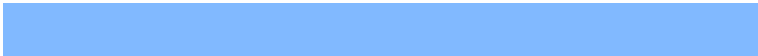
63.6918, 0.2948, 0.2518

# Complementary

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



63.6918, 0.4129, 0.4008



46.5572, 0.2312, 0.2422

# 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.



63.6918, 0.2477, 0.2414



63.6918, 0.4129, 0.4008



63.6918, 0.2135, 0.2820

# Square

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



63.6918, 0.4129, 0.4008



63.6918, 0.2699, 0.3880



63.6918, 0.2195, 0.2508



63.6918, 0.3515, 0.2787



# Rectangle

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



63.6918, 0.4129, 0.4008



63.6918, 0.3409, 0.4294



63.6918, 0.2195, 0.2508



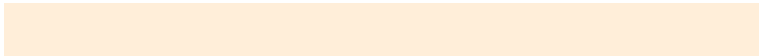
63.6918, 0.2774, 0.2463

# Sweetspot

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



63.6949, 0.4129, 0.4008



87.4138, 0.3377, 0.3502



40.4855, 0.3875, 0.2709



18.3557, 0.3416, 0.3533



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.



63.6949, 0.4129, 0.4008



58.3170, 0.4371, 0.4126



93.1557, 0.3811, 0.4513



19.6619, 0.3280, 0.3422



21.4826, 0.5247, 0.4216

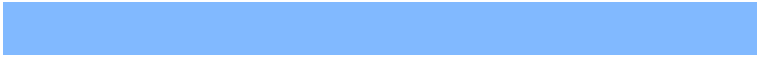


2.3097, 0.5094, 0.4338

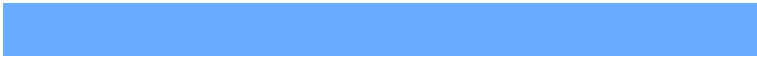


# Inverse Universe

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



46.5572, 0.2312, 0.2422



39.4593, 0.2159, 0.2215



28.0951, 0.2216, 0.1733



18.7056, 0.2979, 0.3154



10.2589, 0.1720, 0.1392



1.2126, 0.1781, 0.1610



# Previews

## White Background



This preview shows how the Yxy color 63.6918, 0.4129, 0.4008 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

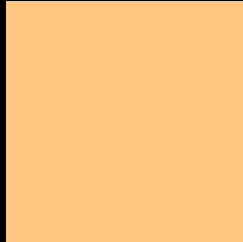
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.6918, 0.4129, 0.4008 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

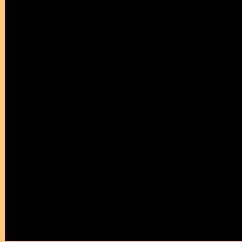
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.6918, 0.4129, 0.4008**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.6918, 0.4129, 0.4008.



This preview shows how white text looks on a background with the Yxy color 63.6918, 0.4129, 0.4008.

# 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

63.6918, 0.4129, 0.4008

### Protanopia

63.7884, 0.3828, 0.4136

### Deuteranopia

63.7762, 0.4108, 0.4023



## Tritanopia

63.8077, 0.3541, 0.3167

# Trichromacy



## Original Color

63.6918, 0.4129, 0.4008

## Protanomaly

63.5057, 0.3936, 0.4081

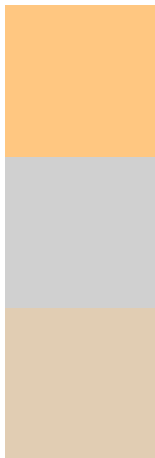
## Deuteranomaly

63.9644, 0.4116, 0.4020

## Tritanomaly

63.4645, 0.3766, 0.3480

# Monochromacy



## Original Color

63.6918, 0.4129, 0.4008

## Achromatopsia

63.0757, 0.3127, 0.3290

## Achromatomaly

62.9249, 0.3476, 0.3585

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.6918, 0.4129, 0.4008 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, 199, 129)` looks like.

```
.text, #text, p{  
    color:rgb(255, 199, 129)  
}
```

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, 199, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 199, 129) }
```

## Border

The CSS property to change the border of an element to Yxy 63.6918, 0.4129, 0.4008 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, 199, 129) }
```

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

```
.border{ border-color:rgb(255, 199, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 199, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 199, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 199, 129);  
box-shadow:4px 4px 4px 4px rgb(255, 199,  
129) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.6918, 0.4129, 0.4008 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 199, 129) }
```

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

```
.background{ background-color: rgb(255,  
199, 129) }
```

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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