

# Converting Colors

$Y_{xy}(70.0268, 0.4351, 0.4574)$

Have a look what the booklet for  
Yxy(70.0268, 0.4351, 0.4574)  
contains.

<b>Yxy(69.8475, 0.4353, 0.4570)</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(69.8475, 0.4353, 0.4570)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD64A
RGB	255, 214, 74
RGB Percent	100%, 84%, 29%
CMY	0.0000, 0.1608, 0.7096
CMYK	0.00, 0.16, 0.71, 0.00
HSL	46°, 100%, 65%
HSV	46°, 71%, 100%
XYZ	66.5309, 69.8475, 16.4608
YIQ	210.2990, 69.3760, -34.8480

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">127, 255, 74</a>
Decimal	<a href="#">16766538</a>
CIELab	<a href="#">86.92, 0.32, 70.91</a>
CIELCh	<a href="#">87, 70.909, 89.743</a>
Yxy	<a href="#">69.8475, 0.4353, 0.4570</a>
Android (android.graphics.Color)	<a href="#">4294956618 (0xFFFFD64A)</a>
YUV	<a href="#">210.2990, -67.1954, 39.2028</a>
Hunter-Lab	<a href="#">83.5748, -4.1585, 46.8247</a>

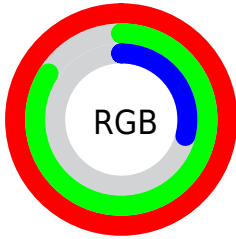
# Details

The Yxy color **69.8475, 0.4353, 0.4570** is a light color, and the websafe version is hex **FFCC33**.

The color can be described as light washed yellow. A complement of this color would be **20.9499, 0.1861, 0.1443**, and the grayscale version is **65.0727, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.3917, 0.3850, 0.4484**, and **36.6109, 0.4542, 0.4776** is the 20% darker color. If you saturate the color by 10%, you get **66.6958, 0.4490, 0.4650**, and if you desaturate by 10%, it is **73.2391, 0.4192, 0.4446**.

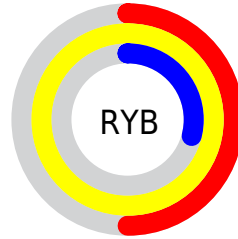
# Distribution



Red (100%)

Green (84%)

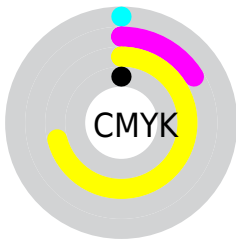
Blue (29%)



Red (50%)

Yellow (100%)

Blue (29%)

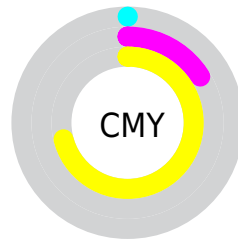


Cyan (0%)

Magenta (16%)

Yellow (71%)

Black (0%)



Cyan (0%)

Magenta (16%)


Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.8475, 0.4353, 0.4570 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 69.8475, 0.4353, 0.4570 by changing the saturation by 10% instead.





 69.8475, 0.4353,  
0.4570

 69.8475, 0.4353,  
0.4570


460.0144, 0.3834,  
0.4029

 51.4022, 0.4449,  
0.4670


 118.9913, 0.4189,  
0.4399


 36.5288, 0.4555,  
0.4779


 150.4585, 0.4120,  
0.4328

 24.8429, 0.4665,  
0.4893


 187.0352, 0.4059,  
0.4264

 15.9600, 0.4775,  
0.5006

 229.1058, 0.4004,  
0.4207

 9.4959, 0.4883,  
0.5117

 277.0546, 0.3955,  
0.4155

 5.0660, 0.4886,  
0.5114

331.2660, 0.3910,

 2.2860, 0.4890,

0.4109

392.1245, 0.3870,  
0.4067

0.5110

0.7663, 0.4900,  
0.5100

0.0000, 0.0000,  
0.0000

69.8475, 0.4353,  
0.4570

69.8475, 0.4353,  
0.4570

66.6958, 0.4490,  
0.4650

73.2391, 0.4192,  
0.4446

63.7695, 0.4597,  
0.4682

76.8913, 0.4015,  
0.4287

61.2914, 0.4671,  
0.4673

80.8165, 0.3831,  
0.4103

85.0276, 0.3646,  
0.3905

89.5362, 0.3467,  
0.3702

94.3530, 0.3298,  
0.3501

99.4881, 0.3142,  
0.3308

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



69.8475, 0.4787, 0.3992



69.8475, 0.4353, 0.4570



69.8475, 0.3627, 0.4890

# Triad

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



69.8475, 0.4353, 0.4570



69.8475, 0.1744, 0.2873



69.8475, 0.3267, 0.2332

# Complementary

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



69.8475, 0.4353, 0.4570



20.9499, 0.1861, 0.1443

# 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.



69.8475, 0.2461, 0.2059



69.8475, 0.4353, 0.4570



69.8475, 0.1683, 0.2278

# Square

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



69.8475, 0.4353, 0.4570



69.8475, 0.2130, 0.3778



69.8475, 0.1922, 0.2027



69.8475, 0.4145, 0.2795



# Rectangle

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



69.8475, 0.4353, 0.4570



69.8475, 0.3082, 0.4790



69.8475, 0.1922, 0.2027



69.8475, 0.2976, 0.2217

# Sweetspot

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



69.8460, 0.4353, 0.4570



89.5191, 0.3468, 0.3703



27.4305, 0.5000, 0.2927



18.8879, 0.3517, 0.3759



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.



69.8460, 0.4353, 0.4570



65.4888, 0.4537, 0.4669



85.2437, 0.3740, 0.5088



20.3515, 0.3275, 0.3473



32.2614, 0.4661, 0.4681



3.3038, 0.4597, 0.4732



# Inverse Universe

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



20.9499, 0.1861, 0.1443



14.5125, 0.1676, 0.1091



16.2828, 0.2025, 0.1154



18.0453, 0.2979, 0.3100



5.5249, 0.1567, 0.0840



0.6935, 0.1623, 0.1041



# Previews

## White Background



This preview shows how the Yxy color 69.8475, 0.4353, 0.4570 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 69.8475, 0.4353, 0.4570 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 69.8475, 0.4353, 0.4570**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.8475, 0.4353, 0.4570.



This preview shows how white text looks on a background with the Yxy color 69.8475, 0.4353, 0.4570.

# 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

69.8475, 0.4353, 0.4570

### Protanopia

69.8839, 0.4234, 0.4649

### Deuteranopia

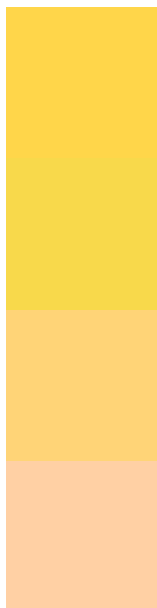
69.8929, 0.3954, 0.3968



## Tritanopia

69.8805, 0.3433, 0.3179

# Trichromacy



## Original Color

69.8475, 0.4353, 0.4570

## Protanomaly

70.0902, 0.4272, 0.4622

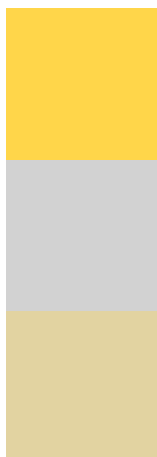
## Deuteranomaly

69.6789, 0.4125, 0.4220

## Tritanomaly

69.0521, 0.3825, 0.3747

# Monochromacy



## Original Color

69.8475, 0.4353, 0.4570

## Achromatopsia

64.4480, 0.3127, 0.3290

## Achromatomaly

65.3305, 0.3604, 0.3854

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.8475, 0.4353, 0.4570 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, 214, 74)` looks like.

```
.text, #text, p{  
    color:rgb(255, 214, 74)  
}
```

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, 214, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 214, 74) }
```

## Border

The CSS property to change the border of an element to Yxy 69.8475, 0.4353, 0.4570 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, 214, 74) }
```

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

```
.border{ border-color:rgb(255, 214, 74) }
```

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

Here you see how a box with a 4 pixel rgb(255, 214, 74) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 214, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 214, 74);  
box-shadow:4px 4px 4px 4px rgb(255, 214,  
74) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.8475, 0.4353, 0.4570 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 214, 74) }
```

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

```
.background{ background-color: rgb(255,  
214, 74) }
```

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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