

# Converting Colors

$Y_{xy}(70.3561, 0.3782, 0.4492)$

Have a look what the booklet for  
Yxy(70.3561, 0.3782, 0.4492)  
contains.

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# Color

**Yxy(70.5591, 0.3779, 0.4499)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DAE274
RGB	218, 226, 116
RGB Percent	85%, 89%, 45%
CMY	0.1450, 0.1137, 0.5452
CMYK	0.04, 0.00, 0.49, 0.11
HSL	64°, 65%, 67%
HSV	64°, 49%, 89%
XYZ	59.2671, 70.5591, 27.0066
YIQ	211.0680, 30.5420, -35.9060

# Conversions

## Conversions Part 2

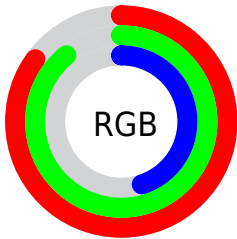
Format	Color
<a href="#">RYB</a>	<a href="#">116, 226, 124</a>
Decimal	<a href="#">14344820</a>
CIELab	<a href="#">87.27, -17.97, 52.39</a>
CIELCh	<a href="#">87, 55.386, 108.928</a>
Yxy	<a href="#">70.5591, 0.3779, 0.4499</a>
Android (android.graphics.Color)	<a href="#">4292534900 (0xFFDAE274)</a>
YUV	<a href="#">211.0680, -46.8685, 6.0794</a>
Hunter-Lab	<a href="#">83.9995, -21.0556, 39.7373</a>

# Details

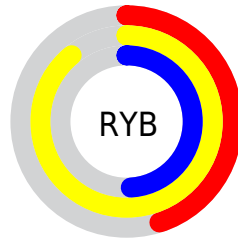
The Yxy color **70.5591, 0.3779, 0.4499** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **22.2535, 0.2257, 0.1776**, and the grayscale version is **65.4916, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.6823, 0.3632, 0.4124**, and **37.0618, 0.3892, 0.4783** is the 20% darker color. If you saturate the color by 10%, you get **69.8478, 0.3884, 0.4708**, and if you desaturate by 10%, it is **71.4072, 0.3657, 0.4264**.

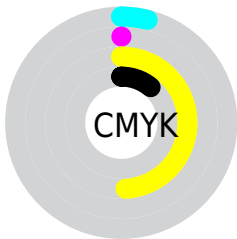
# Distribution



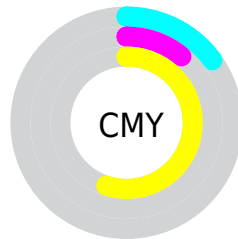
- Red (85%)
- Green (89%)
- Blue (45%)



- Red (45%)
- Yellow (89%)
- Blue (49%)



- Cyan (4%)
- Magenta (0%)
- Yellow (49%)
- Black (11%)




- Cyan (15%)
- Magenta (11%)
- Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.5591, 0.3779, 0.4499 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 70.5591, 0.3779, 0.4499 by changing the saturation by 10% instead.




 70.5591, 0.3779,  
0.4499

 70.5591, 0.3779,  
0.4499


462.5107, 0.3502,  
0.3934

 51.9825, 0.3832,  
0.4625


 120.0057, 0.3690,  
0.4305

 36.9911, 0.3892,  
0.4776


 151.6445, 0.3653,  
0.4228

 25.2006, 0.3956,  
0.4961


 188.4061, 0.3621,  
0.4162

 16.2266, 0.4019,  
0.5188

230.6750, 0.3592,  
0.4105

 9.6846, 0.4067,  
0.5464

278.8355, 0.3566,  
0.4054

 5.1904, 0.4123,  
0.5877

333.2720, 0.3542,

 2.3594, 0.3888,

0.4009

0.6112

394.3689, 0.3521,  
0.3970

0.8049, 0.2885,  
0.7115

0.0000, 0.0000,  
0.0000

70.5591, 0.3779,  
0.4499

70.5591, 0.3779,  
0.4499

69.8478, 0.3884,  
0.4708

71.4072, 0.3657,  
0.4264

69.2543, 0.3967,  
0.4882

72.3909, 0.3524,  
0.4014


68.7710, 0.4025,  
0.5014


73.5214, 0.3385,  
0.3757


68.3852, 0.4057,  
0.5101


74.8057, 0.3246,  
0.3504


 68.0778, 0.4065,  
0.5149

 76.2505, 0.3110,  
0.3259

 68.0398, 0.4065,  
0.5154

 77.8622, 0.2980,  
0.3027

 78.3503, 0.2970,  
0.2994

 78.6216, 0.2980,  
0.2995

 78.8954, 0.2991,  
0.2996

# Harmonies

## Analogous

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



70.5591, 0.4277, 0.4192



70.5591, 0.3779, 0.4499



70.5591, 0.3136, 0.4433

# Triad

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



70.5591, 0.3779, 0.4499



70.5591, 0.1945, 0.2642



70.5591, 0.3691, 0.2748

# Complementary

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



70.5591, 0.3779, 0.4499



22.2535, 0.2257, 0.1776

# 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.



70.5591, 0.3000, 0.2412



70.5591, 0.3779, 0.4499



70.5591, 0.2053, 0.2323

# Square

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



70.5591, 0.3779, 0.4499



70.5591, 0.2102, 0.3220



70.5591, 0.2416, 0.2257



70.5591, 0.4256, 0.3207



# Rectangle

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



70.5591, 0.3779, 0.4499



70.5591, 0.2713, 0.4134



70.5591, 0.2416, 0.2257



70.5591, 0.3461, 0.2619

# Sweetspot

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



70.5623, 0.3779, 0.4499



97.2552, 0.3335, 0.3666



31.6691, 0.4442, 0.3379



20.7422, 0.3365, 0.3720



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.



70.5623, 0.3779, 0.4499



91.8685, 0.3881, 0.4702



63.5071, 0.3365, 0.4688



15.9764, 0.3256, 0.3522



38.8396, 0.4068, 0.5152



2.7075, 0.4088, 0.5136



# Inverse Universe

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



22.2535, 0.2257, 0.1776



21.5946, 0.2058, 0.1444



27.4759, 0.2721, 0.1947



13.2905, 0.2992, 0.3048



3.2162, 0.1524, 0.0613

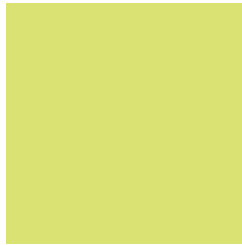


0.2398, 0.1591, 0.0650



# Previews

## White Background



This preview shows how the Yxy color 70.5591, 0.3779, 0.4499 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

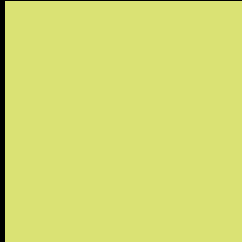
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.5591, 0.3779, 0.4499 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

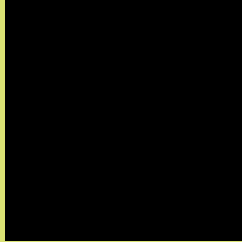
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.5591, 0.3779, 0.4499**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.5591, 0.3779, 0.4499.



This preview shows how white text looks on a background with the Yxy color 70.5591, 0.3779, 0.4499.

# 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

70.5591, 0.3779, 0.4499

### Protanopia

70.5561, 0.4012, 0.4383

### Deuteranopia

70.1816, 0.3889, 0.3878



## Tritanopia

70.2906, 0.3143, 0.3110

# Trichromacy



## Original Color

70.5591, 0.3779, 0.4499

## Protanomaly

70.7811, 0.3927, 0.4429

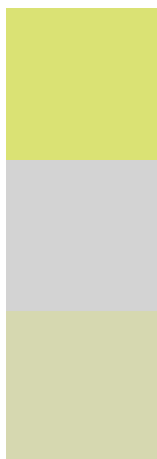
## Deuteranomaly

69.8824, 0.3863, 0.4096

## Tritanomaly

69.9857, 0.3386, 0.3611

# Monochromacy



## Original Color

70.5591, 0.3779, 0.4499

## Achromatopsia

65.1406, 0.3127, 0.3290

## Achromatomaly

66.5425, 0.3389, 0.3751

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.5591, 0.3779, 0.4499 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(218, 226, 116)` looks like.

```
.text, #text, p{  
    color:rgb(218, 226, 116)  
}
```

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(218, 226, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 226, 116) }
```

## Border

The CSS property to change the border of an element to Yxy 70.5591, 0.3779, 0.4499 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(218, 226, 116) }
```

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

```
.border{ border-color:rgb(218, 226, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 226, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(218, 226, 116); -webkit-box-shadow:4px 4px 4px 4px rgb(218, 226, 116); box-shadow:4px 4px 4px 4px rgb(218, 226, 116) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.5591, 0.3779, 0.4499 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 226, 116) }
```

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

```
.background{ background-color: rgb(218,  
226, 116) }
```

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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