

# Converting Colors

$Y_{xy}(78.7579, 0.3651, 0.4710)$

Have a look what the booklet for  
Yxy(78.7579, 0.3651, 0.4710)  
contains.

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# Color

**Yxy(78.6809, 0.3653, 0.4712)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D0F370
RGB	208, 243, 112
RGB Percent	82%, 95%, 44%
CMY	0.1841, 0.0471, 0.5608
CMYK	0.14, 0.00, 0.54, 0.05
HSL	76°, 85%, 70%
HSV	76°, 54%, 95%
XYZ	60.9977, 78.6809, 27.3012
YIQ	217.6010, 21.1910, -48.1610

# Conversions

## Conversions Part 2

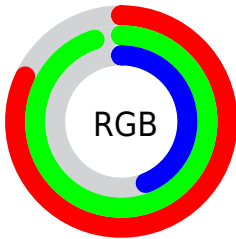
<b>Format</b>	<b>Color</b>
<b>RYB</b>	112, 243, 147
Decimal	13693808
CIELab	91.09, -30.31, 58.52
CIElCh	91, 65.905, 117.382
Yxy	78.6809, 0.3653, 0.4712
Android (android.graphics.Color)	4291883888 (0xFFD0F370)
YUV	217.6010, -52.0613, -8.4201
Hunter-Lab	88.7023, -32.4801, 43.8430

# Details

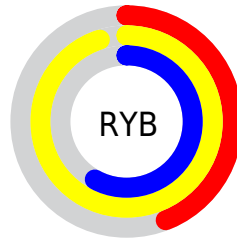
The Yxy color **78.6809, 0.3653, 0.4712** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **24.2582, 0.2329, 0.1662**, and the grayscale version is **70.1837, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.5700, 0.3649, 0.4153**, and **42.4254, 0.3714, 0.5035** is the 20% darker color. If you saturate the color by 10%, you get **77.2933, 0.3712, 0.4943**, and if you desaturate by 10%, it is **80.2600, 0.3575, 0.4455**.

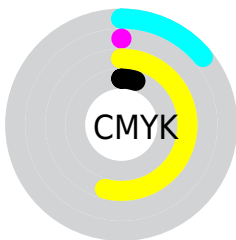
# Distribution



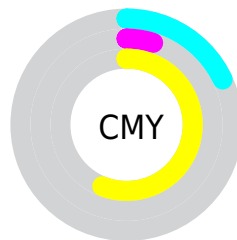
- Red (82%)
- Green (95%)
- Blue (44%)



- Red (44%)
- Yellow (95%)
- Blue (58%)



- Cyan (14%)
- Magenta (0%)
- Yellow (54%)
- Black (5%)




- Cyan (18%)
- Magenta (5%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.6809, 0.3653, 0.4712 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 78.6809, 0.3653, 0.4712 by changing the saturation by 10% instead.




 78.6809, 0.3653,  
0.4712

 78.6809, 0.3653,  
0.4712


490.4762, 0.3451,  
0.4049


 58.6335, 0.3686,  
0.4859


 131.5095, 0.3593,  
0.4484

 42.3181, 0.3718,  
0.5036


 165.0595, 0.3567,  
0.4395

 29.3505, 0.3746,  
0.5251


 203.8792, 0.3543,  
0.4317

 19.3461, 0.3760,  
0.5515

248.3529, 0.3521,  
0.4250

 11.9206, 0.3740,  
0.5838

298.8651, 0.3501,  
0.4190

 6.6897, 0.3691,  
0.6309

355.8001, 0.3483,

 3.2688, 0.3359,

0.4138

0.6641

419.5423, 0.3466,  
0.4091

■ 1.2736, 0.2511,  
0.7489

■ 0.1206, 0.0000,  
1.0000

■ 78.6809, 0.3653,  
0.4712

■ 78.6809, 0.3653,  
0.4712

■ 77.2933, 0.3712,  
0.4943

■ 80.2600, 0.3575,  
0.4455

■ 76.0742, 0.3747,  
0.5137

■ 82.0311, 0.3482,  
0.4184


■ 75.0126, 0.3756,  
0.5286


■ 84.0079, 0.3380,  
0.3910

■ 74.0910, 0.3740,  
0.5385

■ 86.1998, 0.3274,  
0.3642

 73.5824, 0.3721,  
0.5427

 88.6156, 0.3168,  
0.3386

 91.0816, 0.3081,  
0.3173

 92.2804, 0.3122,  
0.3175

 92.5776, 0.3133,  
0.3175

# Harmonies

## Analogous

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



78.6809, 0.4290, 0.4426



78.6809, 0.3653, 0.4712



78.6809, 0.2914, 0.4503

# Triad

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



78.6809, 0.3653, 0.4712



78.6809, 0.1804, 0.2414



78.6809, 0.3982, 0.2808

# Complementary

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



78.6809, 0.3653, 0.4712



24.2582, 0.2329, 0.1662

# 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.



78.6809, 0.3195, 0.2391



78.6809, 0.3653, 0.4712



78.6809, 0.2004, 0.2150

# Square

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



78.6809, 0.3653, 0.4712



78.6809, 0.1889, 0.2984



78.6809, 0.2481, 0.2156



78.6809, 0.4539, 0.3338



# Rectangle

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



78.6809, 0.3653, 0.4712



78.6809, 0.2464, 0.4066



78.6809, 0.2481, 0.2156



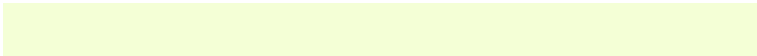
78.6809, 0.3729, 0.2653

# Sweetspot

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



78.6844, 0.3653, 0.4712



95.6390, 0.3297, 0.3698



41.0706, 0.4492, 0.3668



20.3607, 0.3319, 0.3753



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.



78.6844, 0.3653, 0.4712



86.0620, 0.3718, 0.4970



71.0687, 0.3212, 0.4939



19.0783, 0.3227, 0.3527



40.4563, 0.3729, 0.5421



3.6057, 0.3789, 0.5374



# Inverse Universe

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



24.2582, 0.2329, 0.1662



19.4312, 0.2128, 0.1317



32.1208, 0.2901, 0.1892



16.1405, 0.3021, 0.3048



4.2211, 0.1663, 0.0690

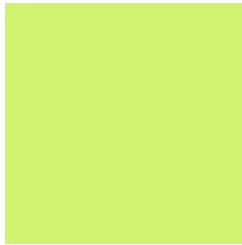


0.4192, 0.1788, 0.0759



# Previews

## White Background



This preview shows how the Yxy color 78.6809, 0.3653, 0.4712 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

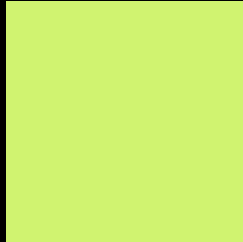
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.6809, 0.3653, 0.4712 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 78.6809, 0.3653, 0.4712**

## Background



This preview shows how black text looks on a background with the Yxy color 78.6809, 0.3653, 0.4712.



This preview shows how white text looks on a background with the Yxy color 78.6809, 0.3653, 0.4712.

# 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**

78.6809, 0.3653, 0.4712

**Protanopia**

78.1922, 0.4084, 0.4461

**Deuteranopia**

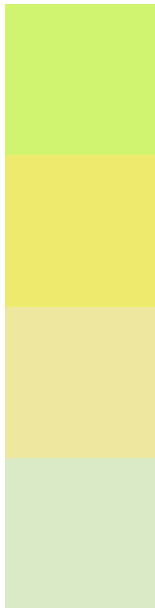
78.1592, 0.3607, 0.3668



## Tritanopia

78.6013, 0.2982, 0.3103

# Trichromacy



## Original Color

78.6809, 0.3653, 0.4712

## Protanomaly

77.9543, 0.3924, 0.4558

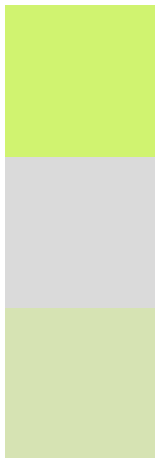
## Deuteranomaly

77.8670, 0.3643, 0.4042

## Tritanomaly

77.8283, 0.3245, 0.3685

# Monochromacy



## Original Color

78.6809, 0.3653, 0.4712

## Achromatopsia

70.1102, 0.3127, 0.3290

## Achromatomaly

72.4890, 0.3349, 0.3833

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.6809, 0.3653, 0.4712 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(208, 243, 112)` looks like.

```
.text, #text, p{  
    color:rgb(208, 243, 112)  
}
```

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(208, 243, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 243, 112) }
```

## Border

The CSS property to change the border of an element to Yxy 78.6809, 0.3653, 0.4712 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(208, 243, 112) }
```

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

```
.border{ border-color:rgb(208, 243, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(208, 243, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 243, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 243, 112);  
box-shadow:4px 4px 4px 4px rgb(208, 243,  
112) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.6809, 0.3653, 0.4712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 243, 112) }
```

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

```
.background{ background-color: rgb(208,  
243, 112) }
```

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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