

# Converting Colors

$Y_{xy}(79.5221, 0.4109, 0.4520)$

Have a look what the booklet for  
Yxy(79.5221, 0.4109, 0.4520)  
contains.

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# **Color**

**Yxy(79.3711, 0.4111, 0.4518)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE766
RGB	255, 231, 102
RGB Percent	100%, 91%, 40%
CMY	0.0000, 0.0941, 0.6000
CMYK	0.00, 0.09, 0.60, 0.00
HSL	51°, 100%, 70%
HSV	51°, 60%, 100%
XYZ	72.2210, 79.3711, 24.0854
YIQ	223.4700, 55.7130, -35.0310

# Conversions

## Conversions Part 2

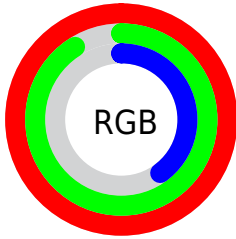
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	130, 255, 102
Decimal	16770918
CIE Lab	91.40, -6.68, 64.22
CIE LCh	91, 64.566, 95.939
Yxy	79.3711, 0.4111, 0.4518
Android (android.graphics.Color)	4294960998 (0xFFFFE766)
YUV	223.4700, -59.8847, 27.6518
Hunter-Lab	89.0905, -11.2076, 46.3344

# Details

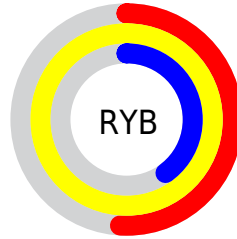
The Yxy color **79.3711, 0.4111, 0.4518** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **24.9697, 0.2016, 0.1624**, and the grayscale version is **74.5479, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.2143, 0.3706, 0.4247**, and **42.8500, 0.4271, 0.4751** is the 20% darker color. If you saturate the color by 10%, you get **76.7258, 0.4249, 0.4656**, and if you desaturate by 10%, it is **82.2216, 0.3954, 0.4345**.

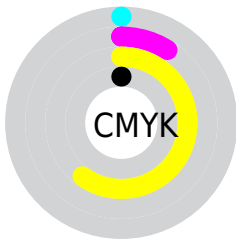
# Distribution



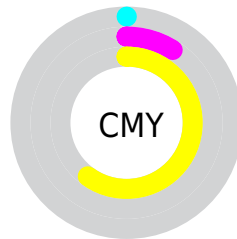
- Red (100%)
- Green (91%)
- Blue (40%)



- Red (51%)
- Yellow (100%)
- Blue (40%)



- Cyan (0%)
- Magenta (9%)
- Yellow (60%)
- Black (0%)




- Cyan (0%)
- Magenta (9%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 79.3711, 0.4111, 0.4518 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 79.3711, 0.4111, 0.4518 by changing the saturation by 10% instead.




 79.3711, 0.4111,  
0.4518


 79.3711, 0.4111,  
0.4518


492.8109, 0.3699,  
0.3985


 59.2010, 0.4189,  
0.4625


 132.4812, 0.3980,  
0.4344

 42.7749, 0.4276,  
0.4747


 166.1899, 0.3925,  
0.4273

 29.7086, 0.4371,  
0.4886


 205.1803, 0.3877,  
0.4210

 19.6175, 0.4468,  
0.5041

 249.8367, 0.3833,  
0.4155

 12.1173, 0.4568,  
0.5217

300.5436, 0.3794,  
0.4105

 6.8236, 0.4624,  
0.5376

357.6853, 0.3759,

 3.3520, 0.4557,

0.4061

0.5443

421.6463, 0.3727,  
0.4021

■ 1.3182, 0.4439,  
0.5561

■ 0.1552, 0.0000,  
1.0000

■ 79.3711, 0.4111,  
0.4518

■ 79.3711, 0.4111,  
0.4518

■ 76.7258, 0.4249,  
0.4656

■ 82.2216, 0.3954,  
0.4345

■ 74.2730, 0.4363,  
0.4750


■ 85.2928, 0.3786,  
0.4147


■ 71.9937, 0.4448,  
0.4797

■ 88.5959, 0.3614,  
0.3935

■ 69.8589, 0.4507,  
0.4804

■ 92.1418, 0.3444,  
0.3716

 69.8582, 0.4507,  
0.4804

 95.9405, 0.3281,  
0.3499

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

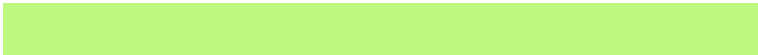
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



79.3711, 0.4548, 0.4054



79.3711, 0.4111, 0.4518



79.3711, 0.3441, 0.4677

# Triad

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



79.3711, 0.4111, 0.4518



79.3711, 0.1860, 0.2804



79.3711, 0.3418, 0.2510

# Complementary

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



79.3711, 0.4111, 0.4518



24.9697, 0.2016, 0.1624

# 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.



79.3711, 0.2675, 0.2223



79.3711, 0.4111, 0.4518



79.3711, 0.1858, 0.2330

# Square

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



79.3711, 0.4111, 0.4518



79.3711, 0.2155, 0.3548



79.3711, 0.2133, 0.2150



79.3711, 0.4154, 0.2960



# Rectangle

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



79.3711, 0.4111, 0.4518



79.3711, 0.2956, 0.4494



79.3711, 0.2133, 0.2150



79.3711, 0.3157, 0.2393

# Sweetspot

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



79.3703, 0.4111, 0.4518



92.8797, 0.3411, 0.3672



32.3100, 0.4702, 0.3047



19.6506, 0.3459, 0.3736



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.



79.3703, 0.4111, 0.4518



76.2196, 0.4274, 0.4678



85.3173, 0.3622, 0.4901



20.5767, 0.3273, 0.3489



36.6846, 0.4501, 0.4808



3.6966, 0.4460, 0.4841



# Inverse Universe

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



24.9697, 0.2016, 0.1624



17.7283, 0.1808, 0.1269



23.4974, 0.2294, 0.1500



17.8377, 0.2979, 0.3083



4.7014, 0.1536, 0.0730



0.5844, 0.1584, 0.0901



# Previews

## White Background



This preview shows how the Yxy color 79.3711, 0.4111, 0.4518 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

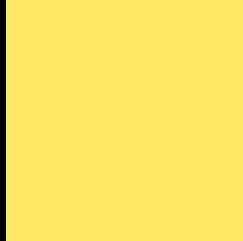
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 79.3711, 0.4111, 0.4518 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 79.3711, 0.4111, 0.4518**

## **Background**



This preview shows how black text looks on a background with the Yxy color 79.3711, 0.4111, 0.4518.



This preview shows how white text looks on a background with the Yxy color 79.3711, 0.4111, 0.4518.

# 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

79.3711, 0.4111, 0.4518

### Protanopia

79.5376, 0.4070, 0.4457

### Deuteranopia

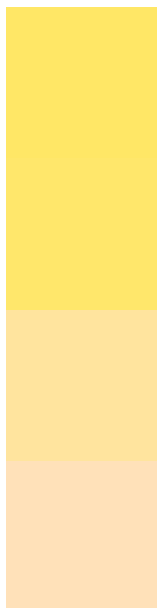
79.3704, 0.3581, 0.3657



## Tritanopia

79.3857, 0.3289, 0.3181

# Trichromacy



## Original Color

79.3711, 0.4111, 0.4518

## Protanomaly

79.4734, 0.4086, 0.4481

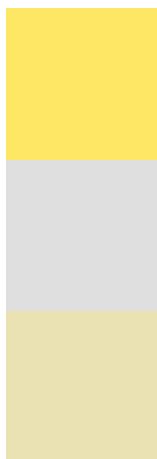
## Deuteranomaly

79.2154, 0.3795, 0.4000

## Tritanomaly

78.6132, 0.3619, 0.3699

# Monochromacy



## Original Color

79.3711, 0.4111, 0.4518

## Achromatopsia

73.7910, 0.3127, 0.3290

## Achromatomaly

75.3096, 0.3507, 0.3795

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 79.3711, 0.4111, 0.4518 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, 231, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 231, 102)  
}
```

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, 231, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 231, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 79.3711, 0.4111, 0.4518 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, 231, 102) }
```

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

```
.border{ border-color:rgb(255, 231, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 231, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 231, 102); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 231, 102); box-shadow:4px 4px 4px 4px rgb(255, 231, 102) }
```



# Background

The CSS property to change the background color of an element to Yxy 79.3711, 0.4111, 0.4518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 231, 102) }
```

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

```
.background{ background-color: rgb(255,  
231, 102) }
```

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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