

# Converting Colors

$Y_{xy}(104.3841, 0.4693, 0.4103)$

Have a look what the booklet for  
Yxy(104.3841, 0.4693, 0.4103)  
contains.

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# Color

**Yxy(80.8222, 0.4022, 0.4417)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE975
RGB	255, 233, 117
RGB Percent	100%, 91%, 46%
CMY	0.0000, 0.0863, 0.5410
CMYK	0.00, 0.09, 0.54, 0.00
HSL	50°, 100%, 73%
HSV	50°, 54%, 100%
XYZ	73.5945, 80.8222, 28.5632
YIQ	226.3540, 50.3480, -31.4120

# Conversions

## Conversions Part 2

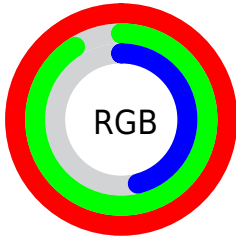
Format	Color
R <sub>Y</sub> B	143, 255, 117
Decimal	16771445
CIE Lab	92.05, -6.61, 58.27
CIE LCh	92, 58.641, 96.472
Yxy	80.8222, 0.4022, 0.4417
Android (android.graphics.Color)	4294961525 (0xFFFFE975)
YUV	226.3540, -53.9115, 25.1225
Hunter-Lab	89.9012, -11.2042, 44.0934

# Details

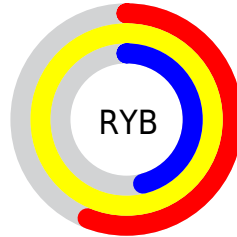
The Yxy color **80.8222, 0.4022, 0.4417** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **29.4820, 0.2130, 0.1813**, and the grayscale version is **76.6971, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.7586, 0.3620, 0.4105**, and **43.9354, 0.4184, 0.4644** is the 20% darker color. If you saturate the color by 10%, you get **78.0276, 0.4173, 0.4576**, and if you desaturate by 10%, it is **83.8370, 0.3857, 0.4229**.

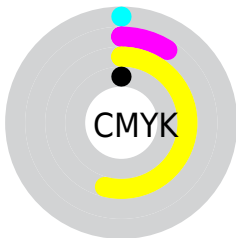
# Distribution



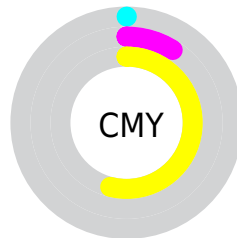
- Red (100%)
- Green (91%)
- Blue (46%)



- Red (56%)
- Yellow (100%)
- Blue (46%)



- Cyan (0%)
- Magenta (9%)
- Yellow (54%)
- Black (0%)




- Cyan (0%)
- Magenta (9%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.8222, 0.4022, 0.4417 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 80.8222, 0.4022, 0.4417 by changing the saturation by 10% instead.




 80.8222, 0.4022,  
0.4417


 80.8222, 0.4022,  
0.4417

497.6994, 0.3642,  
0.3922

 60.3952, 0.4097,  
0.4519


 134.5211, 0.3899,  
0.4254

 43.7372, 0.4181,  
0.4637


 168.5617, 0.3849,  
0.4187

 30.4640, 0.4277,  
0.4775


 207.9091, 0.3804,  
0.4129

 20.1910, 0.4380,  
0.4934

252.9474, 0.3764,  
0.4078

 12.5340, 0.4483,  
0.5111

304.0613, 0.3729,  
0.4032

 7.1084, 0.4630,  
0.5370

361.6349, 0.3697,

 3.5300, 0.4566,

0.3992

0.5434

426.0528, 0.3668,  
0.3955

■ 1.4143, 0.4454,  
0.5546

■ 0.2272, 0.1938,  
0.8062

■ 80.8222, 0.4022,  
0.4417

■ 80.8222, 0.4022,  
0.4417

■ 78.0276, 0.4173,  
0.4576

■ 83.8370, 0.3857,  
0.4229

■ 75.4336, 0.4303,  
0.4696

■ 87.0787, 0.3685,  
0.4021

■ 73.0259, 0.4406,  
0.4771

■ 90.5605, 0.3514,  
0.3804

■ 70.7848, 0.4480,  
0.4799

■ 94.2928, 0.3347,  
0.3587

69.5245, 0.4512,  
0.4799

98.2854, 0.3189,  
0.3374

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

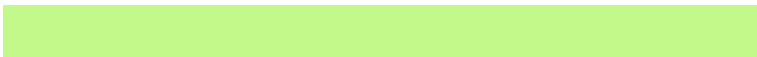
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.8222, 0.4417, 0.4011



80.8222, 0.4022, 0.4417



80.8222, 0.3411, 0.4533

# Triad

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



80.8222, 0.4022, 0.4417



80.8222, 0.1965, 0.2848



80.8222, 0.3407, 0.2583

# Complementary

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



80.8222, 0.4022, 0.4417



29.4820, 0.2130, 0.1813

# 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.



80.8222, 0.2730, 0.2313



80.8222, 0.4022, 0.4417



80.8222, 0.1965, 0.2413

# Square

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



80.8222, 0.4022, 0.4417



80.8222, 0.2237, 0.3514



80.8222, 0.2226, 0.2245



80.8222, 0.4064, 0.3002



# Rectangle

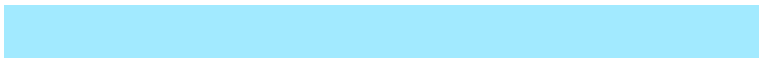
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.8222, 0.4022, 0.4417



80.8222, 0.2969, 0.4356



80.8222, 0.2226, 0.2245



80.8222, 0.3171, 0.2473

# Sweetspot

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



80.8241, 0.4022, 0.4417



93.5643, 0.3378, 0.3628



35.8870, 0.4465, 0.3061



19.8598, 0.3412, 0.3673



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

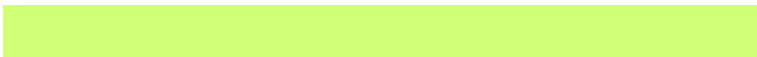
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.8241, 0.4022, 0.4417



77.7864, 0.4186, 0.4589



86.3627, 0.3592, 0.4753



20.5683, 0.3273, 0.3488



36.5125, 0.4506, 0.4804



3.6815, 0.4465, 0.4837



# Inverse Universe

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



29.4820, 0.2130, 0.1813



21.7734, 0.1926, 0.1476



27.7421, 0.2393, 0.1680



17.8454, 0.2979, 0.3084



4.7265, 0.1537, 0.0733



0.5880, 0.1585, 0.0906



# Previews

## White Background



This preview shows how the Yxy color 80.8222, 0.4022, 0.4417 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

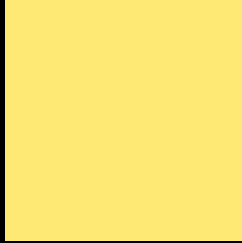
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.8222, 0.4022, 0.4417 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 80.8222, 0.4022, 0.4417**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.8222, 0.4022, 0.4417.



This preview shows how white text looks on a background with the Yxy color 80.8222, 0.4022, 0.4417.

# 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

80.8222, 0.4022, 0.4417

### Protanopia

80.5582, 0.3960, 0.4307

### Deuteranopia

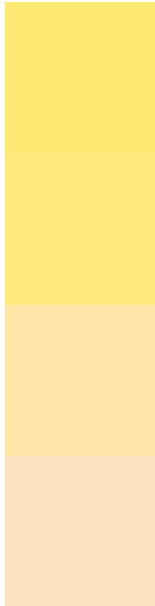
80.7780, 0.3528, 0.3605



## Tritanopia

80.5695, 0.3273, 0.3182

# Trichromacy



## Original Color

80.8222, 0.4022, 0.4417

## Protanomaly

80.4539, 0.3983, 0.4342

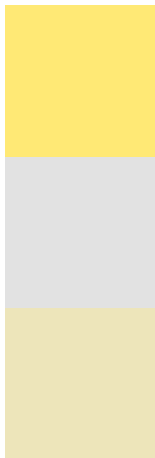
## Deuteranomaly

80.6808, 0.3721, 0.3919

## Tritanomaly

80.0039, 0.3565, 0.3646

# Monochromacy



## Original Color

80.8222, 0.4022, 0.4417

## Achromatopsia

76.0525, 0.3127, 0.3290

## Achromatomaly

77.5883, 0.3468, 0.3747

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.8222, 0.4022, 0.4417 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, 233, 117)` looks like.

```
.text, #text, p{  
    color:rgb(255, 233, 117)  
}
```

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, 233, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 233, 117) }
```

## Border

The CSS property to change the border of an element to Yxy 80.8222, 0.4022, 0.4417 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, 233, 117) }
```

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

```
.border{ border-color:rgb(255, 233, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 233, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 233, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 233, 117);  
box-shadow:4px 4px 4px 4px rgb(255, 233,  
117) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.8222, 0.4022, 0.4417 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 233, 117) }
```

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

```
.background{ background-color: rgb(255,  
233, 117) }
```

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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