

# Converting Colors

$Y_{xy}(83.9200, 0.3795, 0.4127)$

Have a look what the booklet for  
Yxy(83.9200, 0.3795, 0.4127)  
contains.

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# Color

**Yxy(84.1283, 0.3793, 0.4130)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFED99
RGB	255, 237, 153
RGB Percent	100%, 93%, 60%
CMY	0.0002, 0.0705, 0.3999
CMYK	0.00, 0.07, 0.40, 0.00
HSL	49°, 100%, 80%
HSV	49°, 40%, 100%
XYZ	77.2636, 84.1283, 42.3086
YIQ	232.8060, 37.6920, -22.3080

# Conversions

## Conversions Part 2

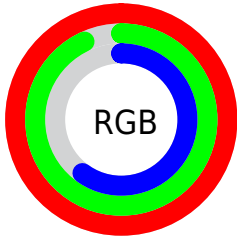
<b>Format</b>	<b>Color</b>
<b>RYB</b>	175, 255, 153
Decimal	16772505
CIELab	93.51, -5.37, 42.86
CIELCh	94, 43.195, 97.141
Yxy	84.1283, 0.3793, 0.4130
Android (android.graphics.Color)	4294962585 (0xFFFFE999)
YUV	232.8060, -39.3444, 19.4641
Hunter-Lab	91.7215, -10.1492, 36.8562

# Details

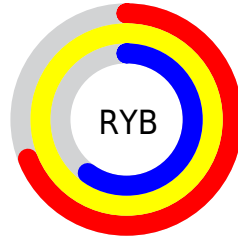
The Yxy color **84.1283, 0.3793, 0.4130** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **43.0998, 0.2416, 0.2277**, and the grayscale version is **81.6120, 0.3127, 0.3290**.

A 20% lighter version of the original color is **97.3341, 0.3406, 0.3751**, and **45.8382, 0.3934, 0.4309** is the 20% darker color. If you saturate the color by 10%, you get **80.8117, 0.3965, 0.4325**, and if you desaturate by 10%, it is **87.6977, 0.3618, 0.3921**.

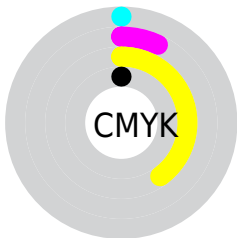
# Distribution



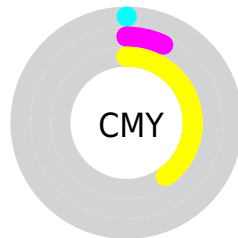
- Red (100%)
- Green (93%)
- Blue (60%)



- Red (69%)
- Yellow (100%)
- Blue (60%)



- Cyan (0%)
- Magenta (7%)
- Yellow (40%)
- Black (0%)




- Cyan (0%)
- Magenta (7%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.1283, 0.3793, 0.4130 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 84.1283, 0.3793, 0.4130 by changing the saturation by 10% instead.




 84.1283, 0.3793,  
0.4130


 84.1283, 0.3793,  
0.4130


508.7392, 0.3502,  
0.3755

 63.1214, 0.3854,  
0.4211


 139.1546, 0.3696,  
0.4004

 45.9394, 0.3925,  
0.4307


 173.9428, 0.3658,  
0.3953

 32.1980, 0.4011,  
0.4425


214.0936, 0.3624,  
0.3909

 21.5128, 0.4113,  
0.4569

259.9912, 0.3594,  
0.3871

 13.4993, 0.4234,  
0.4746

312.0202, 0.3567,  
0.3837

 7.7733, 0.4370,  
0.4963

370.5650, 0.3543,

 3.9502, 0.4633,

0.3807

0.5367

436.0098, 0.3522,  
0.3779

■ 1.6458, 0.4551,  
0.5449

■ 0.3882, 0.3800,  
0.6200

■ 84.1283, 0.3793,  
0.4130

■ 84.1283, 0.3793,  
0.4130

■ 80.8117, 0.3965,  
0.4325

■ 87.6977, 0.3618,  
0.3921

■ 77.7241, 0.4128,  
0.4495

■ 91.5192, 0.3446,  
0.3707

■ 74.8562, 0.4273,  
0.4630

■ 95.6069, 0.3281,  
0.3494

■ 72.1925, 0.4393,  
0.4722

99.9703, 0.3127,  
0.3290

■ 69.7151, 0.4485, 99.9922, 0.3127,  
0.4766 0.3290

■ 67.3946, 0.4550,  
0.4769

■ 67.3911, 0.4550,  
0.4769

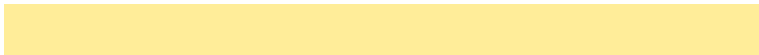
# Harmonies

## Analogous

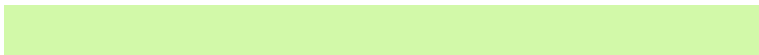
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



84.1283, 0.4074, 0.3860



84.1283, 0.3793, 0.4130



84.1283, 0.3344, 0.4173

# Triad

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



84.1283, 0.3793, 0.4130



84.1283, 0.2252, 0.2974



84.1283, 0.3350, 0.2764

# Complementary

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



84.1283, 0.3793, 0.4130



43.0998, 0.2416, 0.2277

# 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.



84.1283, 0.2852, 0.2553



84.1283, 0.3793, 0.4130



84.1283, 0.2252, 0.2642

# Square

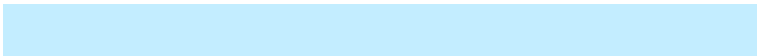
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



84.1283, 0.3793, 0.4130



84.1283, 0.2464, 0.3450



84.1283, 0.2461, 0.2503



84.1283, 0.3817, 0.3094

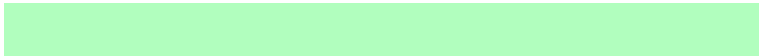


# Rectangle

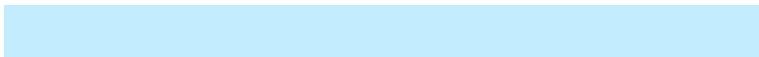
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



84.1283, 0.3793, 0.4130



84.1283, 0.3016, 0.4033



84.1283, 0.2461, 0.2503



84.1283, 0.3179, 0.2678

# Sweetspot

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



84.1322, 0.3793, 0.4130



94.7958, 0.3314, 0.3537



47.0068, 0.3954, 0.3096



20.1741, 0.3335, 0.3564



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.



84.1322, 0.3793, 0.4130



81.4814, 0.3932, 0.4288



89.4308, 0.3506, 0.4365



20.5148, 0.3274, 0.3484



35.4245, 0.4543, 0.4775



3.5853, 0.4496, 0.4812



# Inverse Universe

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



43.0998, 0.2416, 0.2277



35.3313, 0.2256, 0.2031



40.3561, 0.2611, 0.2128



17.8944, 0.2979, 0.3088



4.8970, 0.1544, 0.0756



0.6117, 0.1594, 0.0937



# Previews

## White Background



This preview shows how the Yxy color 84.1283, 0.3793, 0.4130 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 84.1283, 0.3793, 0.4130 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 84.1283, 0.3793, 0.4130**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.1283, 0.3793, 0.4130.

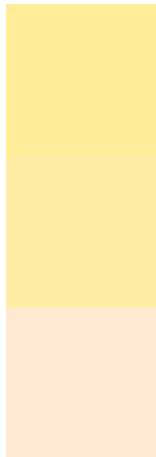


This preview shows how white text looks on a background with the Yxy color 84.1283, 0.3793, 0.4130.

# 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

84.1283, 0.3793, 0.4130

### Protanopia

83.9312, 0.3728, 0.4014

### Deuteranopia

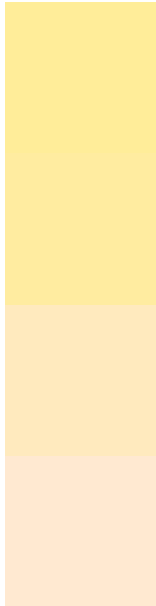
84.2410, 0.3423, 0.3511



## Tritanopia

84.2045, 0.3228, 0.3182

# Trichromacy



**Original Color**

84.1283, 0.3793, 0.4130

**Protanomaly**

83.7890, 0.3753, 0.4053

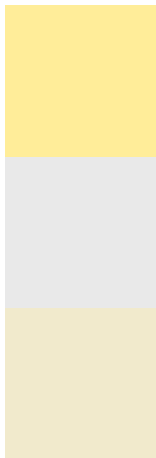
**Deuteranomaly**

83.8233, 0.3562, 0.3734

**Tritanomaly**

84.1413, 0.3437, 0.3531

# Monochromacy



**Original Color**

84.1283, 0.3793, 0.4130

**Achromatopsia**

81.4847, 0.3127, 0.3290

**Achromatomaly**

81.9060, 0.3368, 0.3602

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.1283, 0.3793, 0.4130 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, 237, 153)` looks like.

```
.text, #text, p{  
    color:rgb(255, 237, 153)  
}
```

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, 237, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 237, 153) }
```

## Border

The CSS property to change the border of an element to Yxy 84.1283, 0.3793, 0.4130 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, 237, 153) }
```

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

```
.border{ border-color:rgb(255, 237, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 237, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 237, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 237, 153);  
box-shadow:4px 4px 4px 4px rgb(255, 237,  
153) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.1283, 0.3793, 0.4130 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 237, 153) }
```

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

```
.background{ background-color: rgb(255,  
237, 153) }
```

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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