

# Converting Colors

$Yxy(80.6035, 0.3563, 0.3976)$

Have a look what the booklet for  
Yxy(80.6035, 0.3563, 0.3976)  
contains.

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# Color

**Yxy(80.4961, 0.3567, 0.3975)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEEBA4
RGB	238, 235, 170
RGB Percent	93%, 92%, 67%
CMY	0.0665, 0.0785, 0.3332
CMYK	0.00, 0.01, 0.29, 0.07
HSL	57°, 67%, 80%
HSV	57°, 29%, 93%
XYZ	72.2339, 80.4961, 49.7760
YIQ	228.4870, 22.6530, -19.5790

# Conversions

## Conversions Part 2

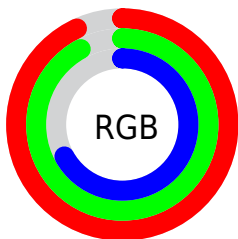
<b>Format</b>	<b>Color</b>
<b>RYB</b>	173, 238, 170
Decimal	15657898
CIELab	91.91, -8.83, 31.98
CIELCh	92, 33.174, 105.437
Yxy	80.4961, 0.3567, 0.3975
Android (android.graphics.Color)	4293847978 (0xFFEEEEBAA)
YUV	228.4870, -28.8341, 8.3429
Hunter-Lab	89.7196, -13.2978, 29.9100

# Details

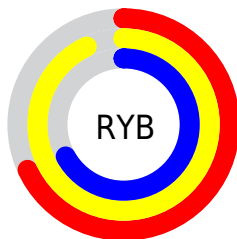
The Yxy color **80.4961, 0.3567, 0.3975** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **44.6384, 0.2629, 0.2498**, and the grayscale version is **78.1681, 0.3127, 0.3290**.

A 20% lighter version of the original color is **98.2710, 0.3298, 0.3572**, and **43.3483, 0.3659, 0.4132** is the 20% darker color. If you saturate the color by 10%, you get **79.0720, 0.3721, 0.4210**, and if you desaturate by 10%, it is **82.0942, 0.3410, 0.3733**.

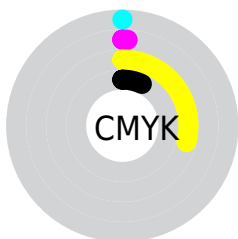
# Distribution



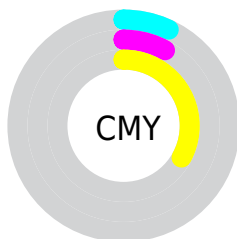
- Red (93%)
- Green (92%)
- Blue (67%)



- Red (68%)
- Yellow (93%)
- Blue (67%)



- Cyan (0%)
- Magenta (1%)
- Yellow (29%)
- Black (7%)



- Cyan (7%)
- Magenta (8%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.4961, 0.3567, 0.3975 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 80.4961, 0.3567, 0.3975 by changing the saturation by 10% instead.



80.4961, 0.3567,  
0.3975

80.4961, 0.3567,  
0.3975

496.6032, 0.3372,  
0.3661

60.1267, 0.3609,  
0.4045

134.0630, 0.3502,  
0.3867

43.5207, 0.3659,  
0.4132

168.0293, 0.3476,  
0.3825

30.2939, 0.3719,  
0.4239

207.2966, 0.3453,  
0.3788

20.0618, 0.3794,  
0.4376

252.2494, 0.3433,  
0.3756

12.4400, 0.3887,  
0.4556

303.2721, 0.3415,  
0.3728

7.0441, 0.4000,  
0.4798

360.7490, 0.3399,

3.4897, 0.4189,

0.3703

0.5207

425.0645, 0.3385,  
0.3681

■ 1.3924, 0.4306,  
0.5694

■ 0.2111, 0.0000,  
1.0000

■ 80.4961, 0.3567,  
0.3975

■ 80.4961, 0.3567,  
0.3975

■ 79.0720, 0.3721,  
0.4210

■ 82.0942, 0.3410,  
0.3733

■ 77.8022, 0.3865,  
0.4428


■ 83.8636, 0.3255,  
0.3491


■ 76.6807, 0.3994,  
0.4619

■ 85.8154, 0.3106,  
0.3257

■ 75.6967, 0.4102,  
0.4775

■ 87.2793, 0.3025,  
0.3133


 74.8382, 0.4185,  
0.4888


 87.9043, 0.3025,  
0.3144


 74.0905, 0.4240,  
0.4956


 88.5328, 0.3025,  
0.3155

 73.4329, 0.4271,  
0.4985

 89.1651, 0.3025,  
0.3165

 73.3418, 0.4274,  
0.4988

 89.8010, 0.3025,  
0.3176

 90.4407, 0.3024,  
0.3187

# Harmonies

## Analogous

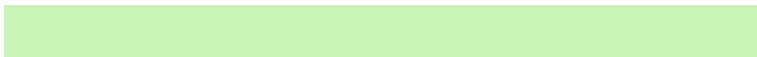
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.4961, 0.3827, 0.3818



80.4961, 0.3567, 0.3975



80.4961, 0.3198, 0.3934

# Triad

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



80.4961, 0.3567, 0.3975



80.4961, 0.2415, 0.2964



80.4961, 0.3412, 0.2938

# Complementary

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



80.4961, 0.3567, 0.3975



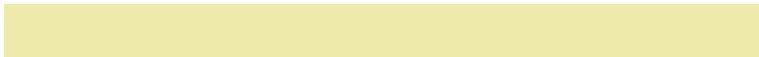
44.6384, 0.2629, 0.2498

# 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.



80.4961, 0.3019, 0.2737



80.4961, 0.3567, 0.3975



80.4961, 0.2463, 0.2735

# Square

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



80.4961, 0.3567, 0.3975



80.4961, 0.2543, 0.3312



80.4961, 0.2676, 0.2661



80.4961, 0.3741, 0.3224

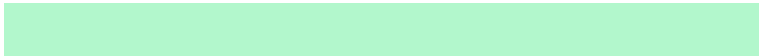


# Rectangle

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



80.4961, 0.3567, 0.3975



80.4961, 0.2942, 0.3786



80.4961, 0.2676, 0.2661



80.4961, 0.3282, 0.2860

# Sweetspot

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



80.4997, 0.3567, 0.3975



97.9571, 0.3262, 0.3502



49.9784, 0.3726, 0.3254



20.8997, 0.3285, 0.3537



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.



80.4997, 0.3567, 0.3975



93.1736, 0.3653, 0.4107



77.3981, 0.3340, 0.4058



18.3309, 0.3269, 0.3513



40.9582, 0.4273, 0.4989



3.4445, 0.4262, 0.4998



# Inverse Universe

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



44.6384, 0.2629, 0.2498



45.1478, 0.2516, 0.2316



47.3035, 0.2857, 0.2512



15.3418, 0.2979, 0.3057



3.6219, 0.1508, 0.0628

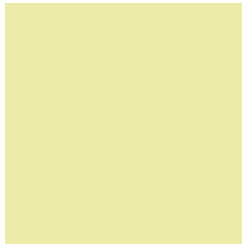


0.3409, 0.1528, 0.0701



# Previews

## White Background



This preview shows how the Yxy color 80.4961, 0.3567, 0.3975 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

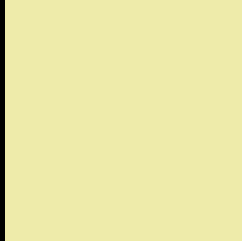
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.4961, 0.3567, 0.3975 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

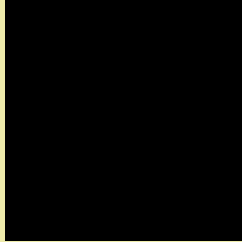
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.4961, 0.3567, 0.3975**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.4961, 0.3567, 0.3975.

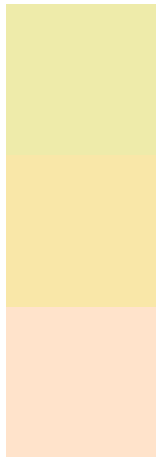


This preview shows how white text looks on a background with the Yxy color 80.4961, 0.3567, 0.3975.

# 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

80.4961, 0.3567, 0.3975

### Protanopia

80.1187, 0.3673, 0.3939

### Deuteranopia

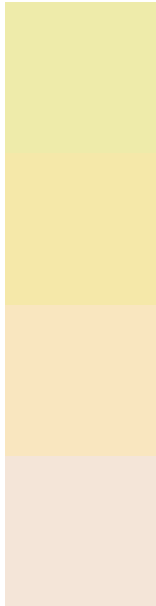
80.5100, 0.3489, 0.3533



## Tritanopia

80.0956, 0.3163, 0.3110

# Trichromacy



## Original Color

80.4961, 0.3567, 0.3975

## Protanomaly

79.9903, 0.3634, 0.3945

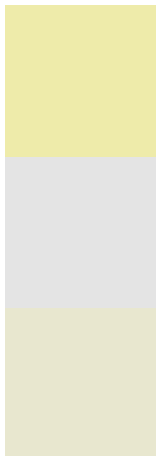
## Deuteranomaly

80.4950, 0.3521, 0.3692

## Tritanomaly

80.2296, 0.3317, 0.3424

# Monochromacy



## Original Color

80.4961, 0.3567, 0.3975

## Achromatopsia

77.5822, 0.3127, 0.3290

## Achromatomaly

78.8126, 0.3289, 0.3545

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.4961, 0.3567, 0.3975 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(238, 235, 170)` looks like.

```
.text, #text, p{  
    color:rgb(238, 235, 170)  
}
```

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(238, 235, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 235, 170) }
```

## Border

The CSS property to change the border of an element to Yxy 80.4961, 0.3567, 0.3975 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(238, 235, 170) }
```

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

```
.border{ border-color:rgb(238, 235, 170) }
```

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

Here you see how a box with a 4 pixel rgb(238, 235, 170) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 235, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 235, 170);  
box-shadow:4px 4px 4px 4px rgb(238, 235,  
170) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.4961, 0.3567, 0.3975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 235, 170) }
```

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

```
.background{ background-color: rgb(238,  
235, 170) }
```

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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