

# Converting Colors

$Y_{xy}(80.8759, 0.3212, 0.3409)$

Have a look what the booklet for  
Yxy(80.8759, 0.3212, 0.3409)  
contains.

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# Color

**Yxy(80.9907, 0.3210, 0.3415)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EAE9DD
RGB	234, 233, 221
RGB Percent	92%, 91%, 87%
CMY	0.0823, 0.0863, 0.1332
CMYK	0.00, 0.00, 0.06, 0.08
HSL	55°, 24%, 89%
HSV	55°, 6%, 92%
XYZ	76.1289, 80.9907, 80.0421
YIQ	231.9310, 4.4480, -3.5200

# Conversions

## Conversions Part 2

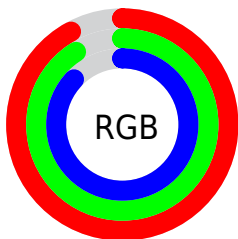
Format	Color
R <sub>Y</sub> B	222, 234, 221
Decimal	15395293
CIE Lab	92.13, -1.72, 5.92
CIE LCh	92, 6.170, 106.211
Yxy	80.9907, 0.3210, 0.3415
Android (android.graphics.Color)	4293585373 (0xFFEAE9DD)
YUV	231.9310, -5.3890, 1.8145
Hunter-Lab	89.9948, -6.4933, 10.2634

# Details

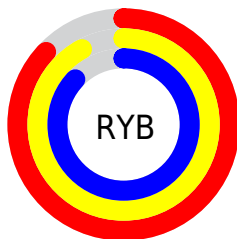
The Yxy color **80.9907, 0.3210, 0.3415** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **73.5849, 0.3043, 0.3162**, and the grayscale version is **80.6854, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **43.6624, 0.3226, 0.3439** is the 20% darker color. If you saturate the color by 10%, you get **78.7944, 0.3365, 0.3647**, and if you desaturate by 10%, it is **83.3788, 0.3063, 0.3192**.

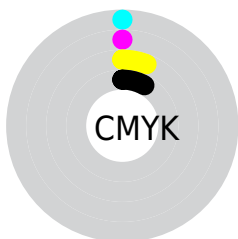
# Distribution



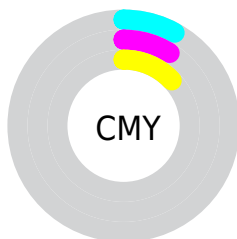
- Red (92%)
- Green (91%)
- Blue (87%)



- Red (87%)
- Yellow (92%)
- Blue (87%)



- Cyan (0%)
- Magenta (0%)
- Yellow (6%)
- Black (8%)



- Cyan (8%)
- Magenta (9%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.9907, 0.3210, 0.3415 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 80.9907, 0.3210, 0.3415 by changing the saturation by 10% instead.



80.9907, 0.3210,  
0.3415

80.9907, 0.3210,  
0.3415

498.2653, 0.3172,  
0.3358

60.5339, 0.3218,  
0.3428

134.7577, 0.3197,  
0.3395

43.8491, 0.3229,  
0.3444

168.8367, 0.3192,  
0.3388

30.5519, 0.3242,  
0.3463

208.2253, 0.3188,  
0.3381

20.2579, 0.3258,  
0.3489

253.3079, 0.3184,  
0.3375

12.5827, 0.3281,  
0.3524

304.4687, 0.3181,  
0.3370

7.1418, 0.3312,  
0.3573

362.0923, 0.3178,

3.5509, 0.3360,

0.3366

0.3648

426.5631, 0.3175,  
0.3362

■ 1.4257, 0.3440,  
0.3778

■ 0.2355, 0.4356,  
0.5644

■ 80.9907, 0.3210,  
0.3415

■ 80.9907, 0.3210,  
0.3415

■ 78.7944, 0.3365,  
0.3647

■ 83.3788, 0.3063,  
0.3192

■ 76.7722, 0.3524,  
0.3882

■ 85.1010, 0.2999,  
0.3106

■ 74.9199, 0.3684,  
0.4113

■ 86.1717, 0.2999,  
0.3125

■ 73.2292, 0.3838,  
0.4332

■ 87.2533, 0.2999,  
0.3143

71.6912, 0.3981,  
0.4528

88.3460, 0.2999,  
0.3162

70.2958, 0.4105,  
0.4691

89.4497, 0.2999,  
0.3181

69.0318, 0.4206,  
0.4815

90.5645, 0.2999,  
0.3199

67.8862, 0.4279,  
0.4894

91.6905, 0.2999,  
0.3218

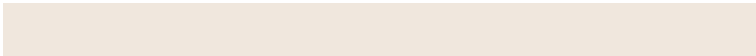
66.8427, 0.4325,  
0.4929

92.8276, 0.3000,  
0.3236

# Harmonies

## Analogous

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



80.9907, 0.3256, 0.3394



80.9907, 0.3210, 0.3415



80.9907, 0.3142, 0.3402

# Triad

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



80.9907, 0.3210, 0.3415



80.9907, 0.2989, 0.3233



80.9907, 0.3183, 0.3223

# Complementary

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



80.9907, 0.3210, 0.3415



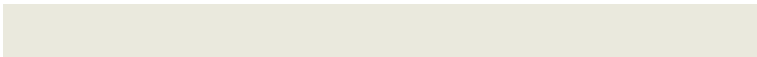
73.5849, 0.3043, 0.3162

# Split Complementary

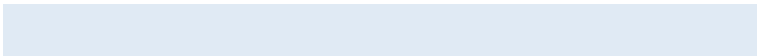
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



80.9907, 0.3111, 0.3181



80.9907, 0.3210, 0.3415



80.9907, 0.3000, 0.3186

# Square

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



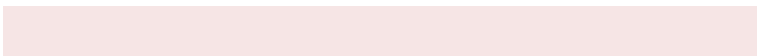
80.9907, 0.3210, 0.3415



80.9907, 0.3015, 0.3296



80.9907, 0.3044, 0.3168



80.9907, 0.3241, 0.3283

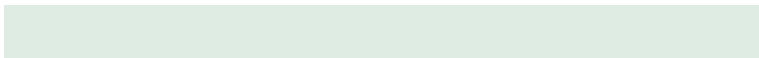


# Rectangle

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



80.9907, 0.3210, 0.3415



80.9907, 0.3094, 0.3376



80.9907, 0.3044, 0.3168



80.9907, 0.3160, 0.3207

# Sweetspot

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



80.9942, 0.3210, 0.3415



99.4199, 0.3157, 0.3335



74.5009, 0.3213, 0.3279



21.2861, 0.3155, 0.3333



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

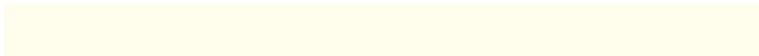


# Same Dimension

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



80.9942, 0.3210, 0.3415



98.0097, 0.3232, 0.3449



80.6725, 0.3172, 0.3427



17.5042, 0.3241, 0.3461



37.3919, 0.4338, 0.4938



2.9965, 0.4316, 0.4955



# Inverse Universe

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



73.5849, 0.3043, 0.3162



86.7234, 0.3019, 0.3126



73.9068, 0.3080, 0.3152



15.3381, 0.3011, 0.3113



3.6593, 0.1514, 0.0652

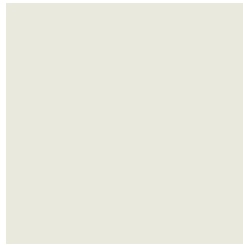


0.3537, 0.1551, 0.0782



# Previews

## White Background



This preview shows how the Yxy color 80.9907, 0.3210, 0.3415 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

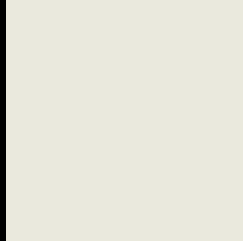
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.9907, 0.3210, 0.3415 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

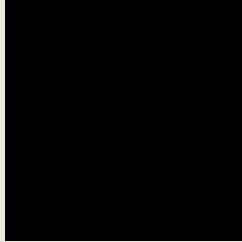
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

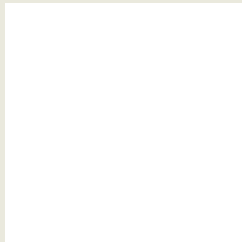
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 80.9907, 0.3210, 0.3415**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.9907, 0.3210, 0.3415.

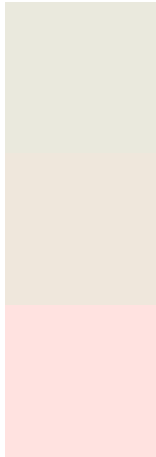


This preview shows how white text looks on a background with the Yxy color 80.9907, 0.3210, 0.3415.

# 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

80.9907, 0.3210, 0.3415

### Protanopia

80.6699, 0.3253, 0.3404

### Deuteranopia

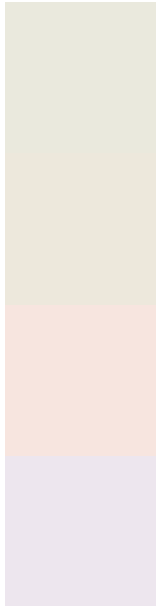
81.0345, 0.3346, 0.3311



## Tritanopia

80.9312, 0.3075, 0.3108

# Trichromacy



## Original Color

80.9907, 0.3210, 0.3415

## Protanomaly

80.8851, 0.3238, 0.3415

## Deuteranomaly

81.1405, 0.3292, 0.3351

## Tritanomaly

80.7712, 0.3124, 0.3208

# Monochromacy



## Original Color

80.9907, 0.3210, 0.3415

## Achromatopsia

80.6952, 0.3127, 0.3290

## Achromatomaly

80.6383, 0.3159, 0.3332

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.9907, 0.3210, 0.3415 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(234, 233, 221)` looks like.

```
.text, #text, p{  
    color:rgb(234, 233, 221)  
}
```

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(234, 233, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 233, 221) }
```

## Border

The CSS property to change the border of an element to Yxy 80.9907, 0.3210, 0.3415 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(234, 233, 221) }
```

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

```
.border{ border-color:rgb(234, 233, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 233, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 233, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 233, 221);  
box-shadow:4px 4px 4px 4px rgb(234, 233,  
221) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.9907, 0.3210, 0.3415 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 233, 221) }
```

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

```
.background{ background-color: rgb(234,  
233, 221) }
```

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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