

# Converting Colors

$Y_{xy}(88.1510, 0.3194, 0.3401)$

Have a look what the booklet for  
Yxy(88.1510, 0.3194, 0.3401)  
contains.

<b>Yxy(88.1510, 0.3194, 0.3401)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(88.1510, 0.3194, 0.3401)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2F2E7
RGB	242, 242, 231
RGB Percent	95%, 95%, 91%
CMY	0.0511, 0.0509, 0.0941
CMYK	0.00, 0.00, 0.05, 0.05
HSL	60°, 30%, 93%
HSV	60°, 5%, 95%
XYZ	82.7857, 88.1510, 88.2547
YIQ	240.7460, 3.5310, -3.4210

# Conversions

## Conversions Part 2

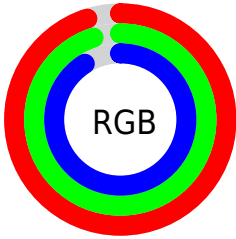
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 242, 231
Decimal	15921895
CIE Lab	95.22, -1.91, 5.29
CIE LCh	95, 5.626, 109.883
Yxy	88.1510, 0.3194, 0.3401
Android (android.graphics.Color)	4294111975 (0xFF F2 F2 E7)
YUV	240.7460, -4.8048, 1.0998
Hunter-Lab	93.8888, -6.9143, 9.9900

# Details

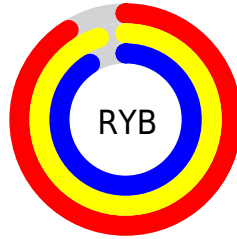
The Yxy color **88.1510, 0.3194, 0.3401** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **80.5634, 0.3059, 0.3177**, and the grayscale version is **87.7885, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **48.6521, 0.3213, 0.3432** is the 20% darker color. If you saturate the color by 10%, you get **86.8621, 0.3344, 0.3651**, and if you desaturate by 10%, it is **89.6234, 0.3050, 0.3162**.

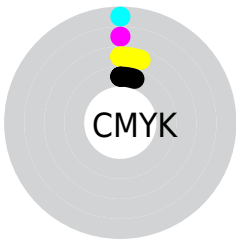
# Distribution



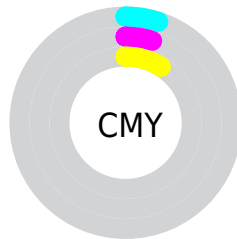
- Red (95%)
- Green (95%)
- Blue (91%)



- Red (91%)
- Yellow (95%)
- Blue (91%)



- Cyan (0%)
- Magenta (0%)
- Yellow (5%)
- Black (5%)



- Cyan (5%)
- Magenta (5%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 88.1510, 0.3194, 0.3401 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 88.1510, 0.3194, 0.3401 by changing the saturation by 10% instead.



88.1510, 0.3194,  
0.3401

88.1510, 0.3194,  
0.3401

521.9976, 0.3164,  
0.3351

66.4481, 0.3201,  
0.3412

144.7674, 0.3184,  
0.3384

48.6363, 0.3209,  
0.3426

180.4496, 0.3180,  
0.3377

34.3310, 0.3218,  
0.3442

221.5605, 0.3176,  
0.3372

23.1480, 0.3231,  
0.3464

268.4844, 0.3173,  
0.3366

14.7028, 0.3248,  
0.3493

321.6056, 0.3171,  
0.3362

8.6111, 0.3271,  
0.3533

381.3086, 0.3168,

4.4884, 0.3306,

0.3358

0.3593

447.9778, 0.3166,  
0.3354

■ 1.9503, 0.3361,  
0.3692

■ 0.5784, 0.3750,  
0.4312

■ 88.1510, 0.3194,  
0.3401

■ 88.1510, 0.3194,  
0.3401

■ 86.8621, 0.3344,  
0.3651

■ 89.6234, 0.3050,  
0.3162

■ 85.7508, 0.3497,  
0.3904

■ 89.6417, 0.3051,  
0.3162

■ 84.8126, 0.3646,  
0.4152

■ 89.6600, 0.3051,  
0.3162


■ 84.0387, 0.3786,  
0.4386

■ 89.6783, 0.3052,  
0.3162

 83.4194, 0.3911,  
0.4595


 89.6966, 0.3053,  
0.3162


 82.9441, 0.4016,  
0.4771


 89.7150, 0.3053,  
0.3162


 82.6006, 0.4096,  
0.4906

 89.7334, 0.3054,  
0.3162

 82.3751, 0.4150,  
0.4996

 89.7517, 0.3055,  
0.3162

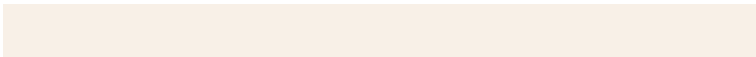
 82.2504, 0.4178,  
0.5045

 89.7701, 0.3055,  
0.3162

# Harmonies

## Analogous

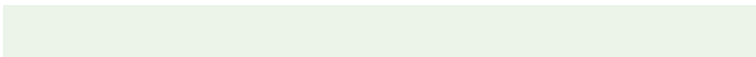
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



88.1510, 0.3238, 0.3386



88.1510, 0.3194, 0.3401



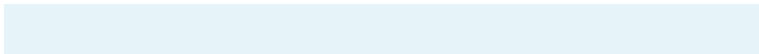
88.1510, 0.3132, 0.3386

# Triad

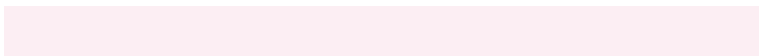
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



88.1510, 0.3194, 0.3401



88.1510, 0.3004, 0.3233



88.1510, 0.3184, 0.3237

# Complementary

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



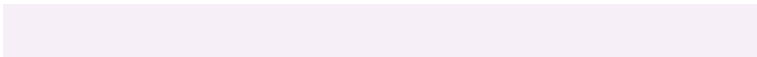
88.1510, 0.3194, 0.3401



80.5634, 0.3059, 0.3177

# Split Complementary

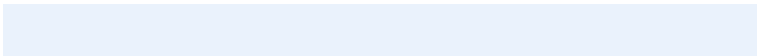
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



88.1510, 0.3121, 0.3197



88.1510, 0.3194, 0.3401



88.1510, 0.3017, 0.3194

# Square

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



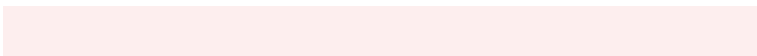
88.1510, 0.3194, 0.3401



88.1510, 0.3023, 0.3288



88.1510, 0.3060, 0.3181



88.1510, 0.3232, 0.3291



# Rectangle

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



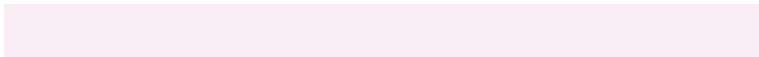
88.1510, 0.3194, 0.3401



88.1510, 0.3090, 0.3361



88.1510, 0.3060, 0.3181



88.1510, 0.3164, 0.3221

# Sweetspot

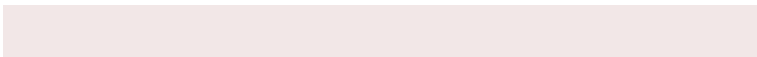
The Sweet Spot groups the original color and five complimentary colors.



88.1548, 0.3194, 0.3401



99.8348, 0.3142, 0.3314



81.8039, 0.3203, 0.3290



21.3705, 0.3141, 0.3313



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.



88.1548, 0.3194, 0.3401



99.1955, 0.3201, 0.3412



87.2034, 0.3158, 0.3402



18.5616, 0.3211, 0.3429



44.1597, 0.4186, 0.5058



3.6748, 0.4187, 0.5058



# Inverse Universe

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



80.5634, 0.3059, 0.3177



89.8044, 0.3052, 0.3165



81.4862, 0.3095, 0.3178



16.5769, 0.3041, 0.3147



3.4490, 0.1501, 0.0601

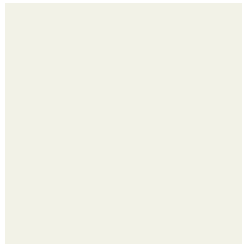


0.2880, 0.1505, 0.0603



# Previews

## White Background



This preview shows how the Yxy color 88.1510, 0.3194, 0.3401 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

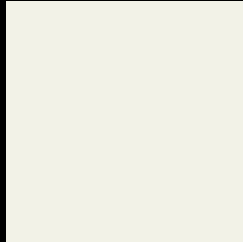
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 88.1510, 0.3194, 0.3401 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

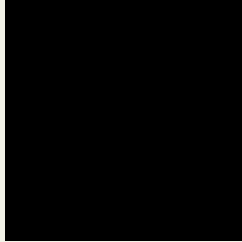
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

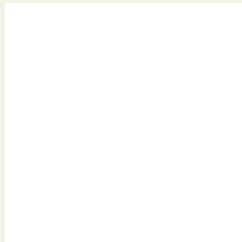
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 88.1510, 0.3194, 0.3401**

## **Background**



This preview shows how black text looks on a background with the Yxy color 88.1510, 0.3194, 0.3401.

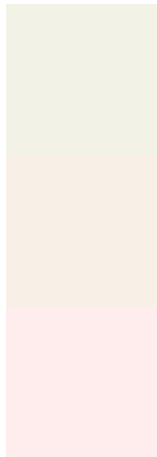


This preview shows how white text looks on a background with the Yxy color 88.1510, 0.3194, 0.3401.

# 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

88.1510, 0.3194, 0.3401

### Protanopia

87.9898, 0.3242, 0.3390

### Deuteranopia

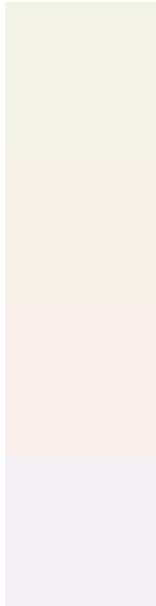
87.9428, 0.3248, 0.3290



## Tritanopia

88.3655, 0.3070, 0.3133

# Trichromacy



## Original Color

88.1510, 0.3194, 0.3401

## Protanomaly

88.2166, 0.3228, 0.3400

## Deuteranomaly

88.0552, 0.3225, 0.3330

## Tritanomaly

88.2071, 0.3117, 0.3231

# Monochromacy



## Original Color

88.1510, 0.3194, 0.3401

## Achromatopsia

87.9622, 0.3127, 0.3290

## Achromatomaly

87.7258, 0.3151, 0.3330

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 88.1510, 0.3194, 0.3401 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(242, 242, 231)` looks like.

```
.text, #text, p{  
    color:rgb(242, 242, 231)  
}
```

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(242, 242, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 242, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 88.1510, 0.3194, 0.3401 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(242, 242, 231) }
```

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

```
.border{ border-color:rgb(242, 242, 231) }
```

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

Here you see how a box with a 4 pixel rgb(242, 242, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 242, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 242, 231);  
box-shadow:4px 4px 4px 4px rgb(242, 242,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 88.1510, 0.3194, 0.3401 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 242, 231) }
```

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

```
.background{ background-color: rgb(242,  
242, 231) }
```

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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