

Converting Colors

$Y_{xy}(83.8580, 0.3648, 0.3879)$

Have a look what the booklet for
Yxy(83.8580, 0.3648, 0.3879)
contains.

Yxy(83.8510, 0.3646, 0.3876)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(83.8510, 0.3646, 0.3876)

Conversions

Conversions Part 1

Format	Color
Hex	FFEBB1
RGB	255, 235, 177
RGB Percent	100%, 92%, 69%
CMY	0.0001, 0.0784, 0.3060
CMYK	0.00, 0.08, 0.31, 0.00
HSL	45°, 100%, 85%
HSV	45°, 31%, 100%
XYZ	78.8753, 83.8510, 53.6075
YIQ	234.3680, 30.5380, -13.7980

Conversions

Conversions Part 2

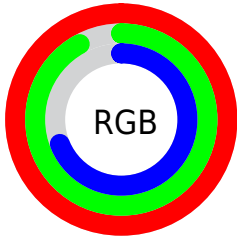
Format	Color
R _Y B	204, 255, 177
Decimal	16772017
CIE Lab	93.39, -1.63, 30.67
CIE LCh	93, 30.714, 93.038
Yxy	83.8510, 0.3646, 0.3876
Android (android.graphics.Color)	4294962097 (0xFFFFEBB1)
YUV	234.3680, -28.2824, 18.0943
Hunter-Lab	91.5702, -6.4943, 29.3893

Details

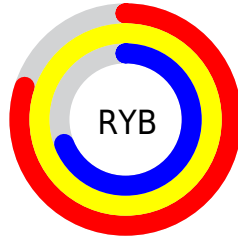
The Yxy color **83.8510, 0.3646, 0.3876** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **56.4646, 0.2609, 0.2625**, and the grayscale version is **82.7728, 0.3127, 0.3290**.

A 20% lighter version of the original color is **98.6632, 0.3256, 0.3503**, and **45.5658, 0.3754, 0.3998** is the 20% darker color. If you saturate the color by 10%, you get **79.2632, 0.3836, 0.4068**, and if you desaturate by 10%, it is **88.7734, 0.3464, 0.3680**.

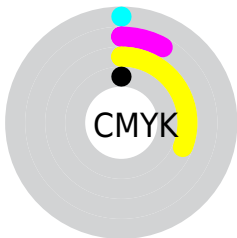
Distribution



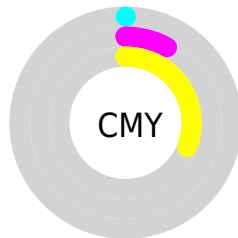
- Red (100%)
- Green (92%)
- Blue (69%)



- Red (80%)
- Yellow (100%)
- Blue (69%)



- Cyan (0%)
- Magenta (8%)
- Yellow (31%)
- Black (0%)





- Cyan (0%)
- Magenta (8%)
- Yellow (31%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 83.8510, 0.3646, 0.3876 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 83.8510, 0.3646, 0.3876 by changing the saturation by 10% instead.

 83.8510, 0.3646,
0.3876

 83.8510, 0.3646,
0.3876


507.8183, 0.3415,
0.3613

 62.8924, 0.3696,
0.3934


 138.7667, 0.3568,
0.3787

 45.7542, 0.3757,
0.4003


173.4927, 0.3537,
0.3751

 32.0519, 0.3831,
0.4089


213.5765, 0.3510,
0.3721

 21.4011, 0.3924,
0.4197

259.4027, 0.3486,
0.3694

 13.4175, 0.4042,
0.4335

311.3556, 0.3465,
0.3670

 7.7167, 0.4195,
0.4517

369.8195, 0.3446,

 3.9142, 0.4406,

0.3649

0.4772

435.1790, 0.3430,
0.3630

■ 1.6257, 0.4776,
0.5224

■ 0.3748, 0.4578,
0.5422

■ 83.8510, 0.3646,
0.3876

■ 83.8510, 0.3646,
0.3876

■ 79.2632, 0.3836,
0.4068

■ 88.7734, 0.3464,
0.3680

■ 74.9865, 0.4028,
0.4247

■ 94.0302, 0.3293,
0.3487

■ 71.0117, 0.4214,
0.4403

■ 99.6357, 0.3136,
0.3301

■ 67.3242, 0.4387,
0.4524

■ 99.9955, 0.3127,
0.3290

■ 63.9075, 0.4537,
0.4601

■ 60.7424, 0.4657,
0.4629

■ 57.9662, 0.4744,
0.4615

Harmonies

Analogous

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



83.8510, 0.3817, 0.3680



83.8510, 0.3646, 0.3876



83.8510, 0.3339, 0.3916

Triad

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



83.8510, 0.3646, 0.3876



83.8510, 0.2503, 0.3117



83.8510, 0.3241, 0.2878

Complementary

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



83.8510, 0.3646, 0.3876



56.4646, 0.2609, 0.2625

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.



83.8510, 0.2888, 0.2737



83.8510, 0.3646, 0.3876



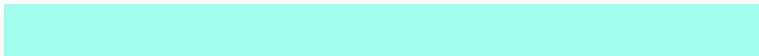
83.8510, 0.2479, 0.2854

Square

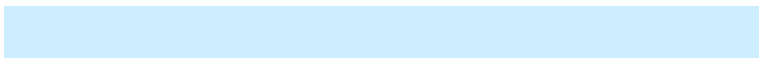
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.8510, 0.3646, 0.3876



83.8510, 0.2684, 0.3455



83.8510, 0.2616, 0.2724



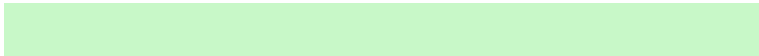
83.8510, 0.3578, 0.3116

Rectangle

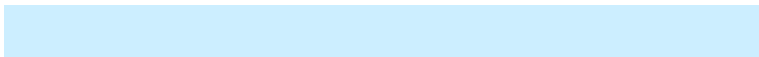
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.8510, 0.3646, 0.3876



83.8510, 0.3103, 0.3833



83.8510, 0.2616, 0.2724



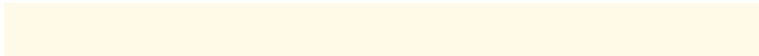
83.8510, 0.3120, 0.2819

Sweetspot

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



83.8548, 0.3646, 0.3876



94.9192, 0.3267, 0.3456



56.7560, 0.3636, 0.3075



20.1466, 0.3291, 0.3484



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

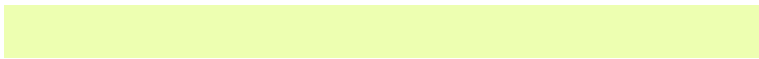
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.8548, 0.3646, 0.3876



80.8928, 0.3767, 0.4000



92.6441, 0.3467, 0.4090



20.2575, 0.3276, 0.3466



30.5477, 0.4733, 0.4624



3.1498, 0.4658, 0.4684

Inverse Universe

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



56.4646, 0.2609, 0.2625



49.3721, 0.2488, 0.2458



50.2775, 0.2708, 0.2418



18.1331, 0.2979, 0.3108



5.9641, 0.1583, 0.0897



0.7472, 0.1641, 0.1106

Previews

White Background



This preview shows how the Yxy color 83.8510, 0.3646, 0.3876 looks on a white background.

Color Contrast Check

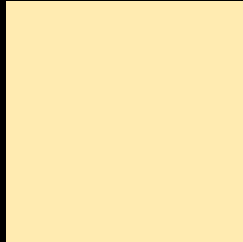
Large Text (above 18pt) WCAG AA × Fail

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 83.8510, 0.3646, 0.3876 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

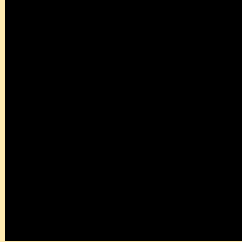
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 83.8510, 0.3646, 0.3876

Background



This preview shows how black text looks on a background with the Yxy color 83.8510, 0.3646, 0.3876.



This preview shows how white text looks on a background with the Yxy color 83.8510, 0.3646, 0.3876.

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

83.8510, 0.3646, 0.3876

Protanopia

84.0479, 0.3629, 0.3888

Deuteranopia

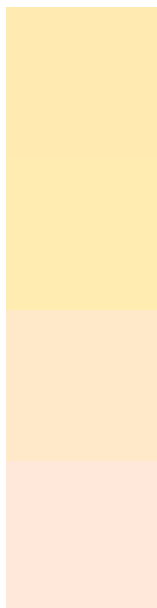
83.8283, 0.3405, 0.3471



Tritanopia

83.6495, 0.3229, 0.3173

Trichromacy



Original Color

83.8510, 0.3646, 0.3876

Protanomaly

84.2361, 0.3636, 0.3886

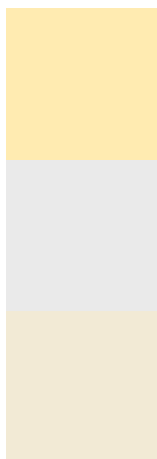
Deuteranomaly

83.7549, 0.3490, 0.3613

Tritanomaly

83.4738, 0.3379, 0.3421

Monochromacy



Original Color

83.8510, 0.3646, 0.3876

Achromatopsia

82.2786, 0.3127, 0.3290

Achromatomaly

82.5270, 0.3316, 0.3507

CSS Examples

Text

The CSS property to change the color of the text to Yxy 83.8510, 0.3646, 0.3876 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, 235, 177)` looks like.

```
.text, #text, p{  
    color:rgb(255, 235, 177)  
}
```

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, 235, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 235, 177) }
```

Border

The CSS property to change the border of an element to Yxy 83.8510, 0.3646, 0.3876 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, 235, 177) }
```

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

```
.border{ border-color:rgb(255, 235, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 235, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 235, 177); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 235, 177); box-shadow:4px 4px 4px 4px rgb(255, 235, 177) }
```


Background

The CSS property to change the background color of an element to Yxy 83.8510, 0.3646, 0.3876 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 235, 177) }
```

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

```
.background{ background-color: rgb(255,  
235, 177) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor