

# Converting Colors

$Yxy(80.2618, 0.3509, 0.4180)$

Have a look what the booklet for  
Yxy(80.2618, 0.3509, 0.4180)  
contains.

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# Color

**Yxy(80.3184, 0.3512, 0.4182)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEF09E
RGB	222, 240, 158
RGB Percent	87%, 94%, 62%
CMY	0.1295, 0.0588, 0.3804
CMYK	0.08, 0.00, 0.34, 0.06
HSL	73°, 73%, 78%
HSV	73°, 34%, 94%
XYZ	67.4506, 80.3184, 44.2884
YIQ	225.2700, 15.5940, -29.3180

# Conversions

## Conversions Part 2

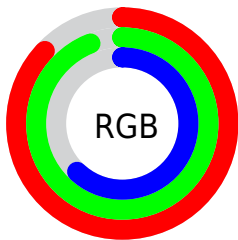
<b>Format</b>	<b>Color</b>
<b>RYB</b>	158, 240, 176
Decimal	14610590
CIELab	91.83, -18.79, 37.72
CIELCh	92, 42.144, 116.478
Yxy	80.3184, 0.3512, 0.4182
Android (android.graphics.Color)	4292800670 (0xFFDEF09E)
YUV	225.2700, -33.1641, -2.8678
Hunter-Lab	89.6205, -22.4926, 33.4346

# Details

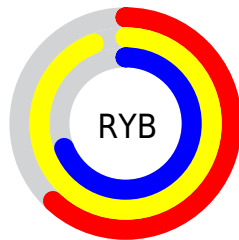
The Yxy color **80.3184, 0.3512, 0.4182** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **39.9730, 0.2642, 0.2303**, and the grayscale version is **75.7334, 0.3127, 0.3290**.

A 20% lighter version of the original color is **97.5841, 0.3376, 0.3701**, and **43.4286, 0.3581, 0.4385** is the 20% darker color. If you saturate the color by 10%, you get **78.7546, 0.3613, 0.4446**, and if you desaturate by 10%, it is **82.0768, 0.3402, 0.3913**.

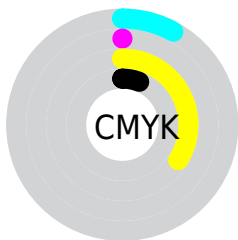
# Distribution



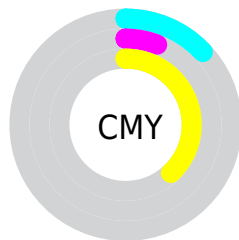
- Red (87%)
- Green (94%)
- Blue (62%)



- Red (62%)
- Yellow (94%)
- Blue (69%)



- Cyan (8%)
- Magenta (0%)
- Yellow (34%)
- Black (6%)




- Cyan (13%)
- Magenta (6%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.3184, 0.3512, 0.4182 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 80.3184, 0.3512, 0.4182 by changing the saturation by 10% instead.





 80.3184, 0.3512,  
0.4182

 80.3184, 0.3512,  
0.4182


496.0052, 0.3348,  
0.3766

 59.9804, 0.3545,  
0.4276


 133.8133, 0.3459,  
0.4038

 43.4028, 0.3583,  
0.4392


 167.7390, 0.3437,  
0.3982

 30.2013, 0.3628,  
0.4537


206.9627, 0.3418,  
0.3934

 19.9914, 0.3678,  
0.4723

251.8688, 0.3401,  
0.3891

 12.3888, 0.3733,  
0.4968

302.8417, 0.3385,  
0.3854

 7.0091, 0.3781,  
0.5298

360.2658, 0.3372,

 3.4678, 0.3970,

0.3822

0.6030

424.5255, 0.3360,  
0.3793

■ 1.3805, 0.3627,  
0.6373

■ 0.2023, 0.0000,  
1.0000

■ 80.3184, 0.3512,  
0.4182

■ 80.3184, 0.3512,  
0.4182

■ 78.7546, 0.3613,  
0.4446

■ 82.0768, 0.3402,  
0.3913

■ 77.3651, 0.3699,  
0.4695


■ 84.0279, 0.3288,  
0.3647

■ 76.1427, 0.3766,  
0.4915


■ 86.1838, 0.3174,  
0.3392

■ 75.0755, 0.3809,  
0.5098


■ 88.5520, 0.3063,  
0.3152

 74.1496, 0.3826,  
0.5236

 89.5694, 0.3091,  
0.3144

 73.3482, 0.3817,  
0.5326

 90.5493, 0.3125,  
0.3146

 72.9241, 0.3803,  
0.5362

 90.8071, 0.3134,  
0.3146

# Harmonies

## Analogous

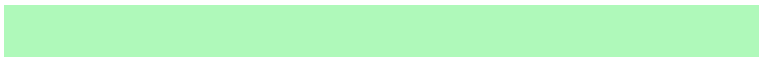
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.3184, 0.3911, 0.4047



80.3184, 0.3512, 0.4182



80.3184, 0.3028, 0.4033

# Triad

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



80.3184, 0.3512, 0.4182



80.3184, 0.2235, 0.2744



80.3184, 0.3660, 0.2970

# Complementary

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



80.3184, 0.3512, 0.4182



39.9730, 0.2642, 0.2303

# Split Complementary

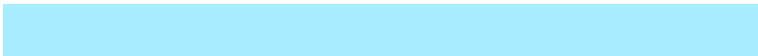
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



80.3184, 0.3168, 0.2678



80.3184, 0.3512, 0.4182



80.3184, 0.2371, 0.2537

# Square

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



80.3184, 0.3512, 0.4182



80.3184, 0.2311, 0.3134



80.3184, 0.2699, 0.2522



80.3184, 0.4015, 0.3342



# Rectangle

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



80.3184, 0.3512, 0.4182



80.3184, 0.2724, 0.3780



80.3184, 0.2699, 0.2522



80.3184, 0.3503, 0.2860

# Sweetspot

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



80.3220, 0.3512, 0.4182



97.4175, 0.3241, 0.3540



51.9515, 0.3868, 0.3490



20.7778, 0.3257, 0.3576



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

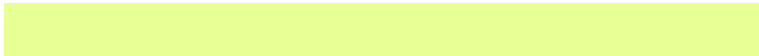


# Same Dimension

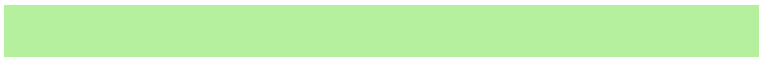
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.3220, 0.3512, 0.4182



90.8955, 0.3583, 0.4367



74.6464, 0.3228, 0.4269



18.2736, 0.3234, 0.3526



39.9764, 0.3810, 0.5357



3.3684, 0.3863, 0.5315



# Inverse Universe

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



39.9730, 0.2642, 0.2303



38.1100, 0.2520, 0.2071



45.4577, 0.2971, 0.2390



15.3962, 0.3014, 0.3048



3.9022, 0.1616, 0.0664

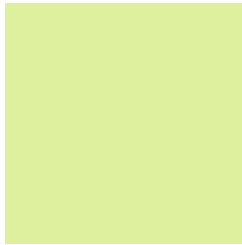


0.3671, 0.1739, 0.0731



# Previews

## White Background



This preview shows how the Yxy color 80.3184, 0.3512, 0.4182 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

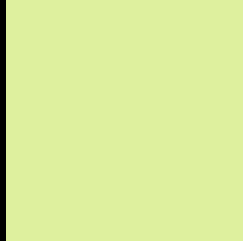
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.3184, 0.3512, 0.4182 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 80.3184, 0.3512, 0.4182**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.3184, 0.3512, 0.4182.

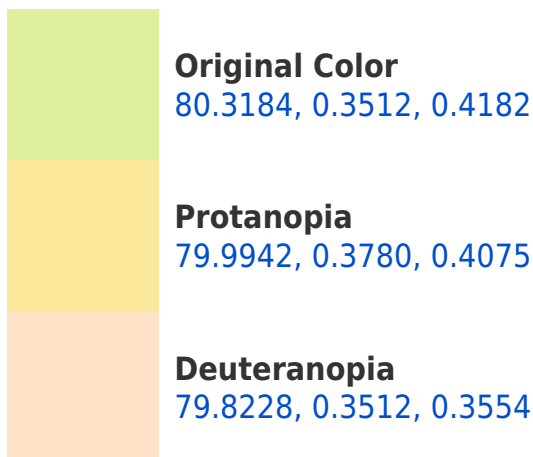


This preview shows how white text looks on a background with the Yxy color 80.3184, 0.3512, 0.4182.

# 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

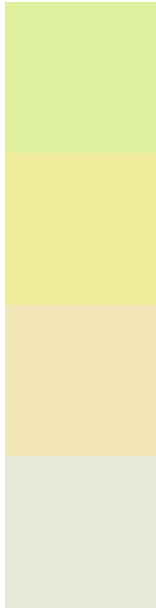




## Tritanopia

80.2464, 0.3048, 0.3106

# Trichromacy



**Original Color**

80.3184, 0.3512, 0.4182

**Protanomaly**

79.7375, 0.3680, 0.4117

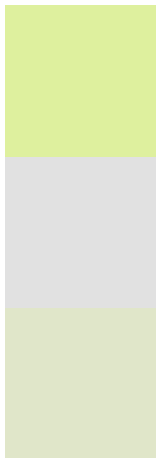
**Deuteranomaly**

79.7093, 0.3515, 0.3771

**Tritanomaly**

80.0071, 0.3221, 0.3480

# Monochromacy



**Original Color**

80.3184, 0.3512, 0.4182

**Achromatopsia**

75.2942, 0.3127, 0.3290

**Achromatomaly**

76.6580, 0.3272, 0.3605

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.3184, 0.3512, 0.4182 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(222, 240, 158)` looks like.

```
.text, #text, p{  
    color:rgb(222, 240, 158)  
}
```

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(222, 240, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 240, 158) }
```

## Border

The CSS property to change the border of an element to Yxy 80.3184, 0.3512, 0.4182 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(222, 240, 158) }
```

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

```
.border{ border-color:rgb(222, 240, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 240, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(222, 240, 158); -webkit-box-shadow:4px 4px 4px 4px rgb(222, 240, 158); box-shadow:4px 4px 4px 4px rgb(222, 240, 158) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.3184, 0.3512, 0.4182 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 240, 158) }
```

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

```
.background{ background-color: rgb(222,  
240, 158) }
```

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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