

# Converting Colors

$Y_{xy}(82.7993, 0.2505, 0.3378)$

Have a look what the booklet for  
Yxy(82.7993, 0.2505, 0.3378)  
contains.

<b>Yxy(82.7474, 0.2504, 0.3380)</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(82.7474, 0.2504, 0.3380)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7FFFF7
RGB	127, 255, 247
RGB Percent	50%, 100%, 97%
CMY	0.5021, 0.0000, 0.0312
CMYK	0.50, 0.00, 0.03, 0.00
HSL	176°, 100%, 75%
HSV	176°, 50%, 100%
XYZ	61.3016, 82.7474, 100.7658
YIQ	215.8160, -73.7200, -29.6240

# Conversions

## Conversions Part 2

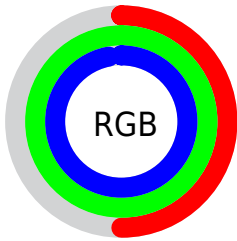
<b>Format</b>	<b>Color</b>
<b>RYB</b>	127, 193, 255
Decimal	8388599
CIELab	92.90, -37.42, -7.14
CIELCh	93, 38.090, 190.798
Yxy	82.7474, 0.2504, 0.3380
Android (android.graphics.Color)	4286578679 (0xFF7FFF7F)
YUV	215.8160, 15.3737, -77.8916
Hunter-Lab	90.9656, -38.8988, -2.0017

# Details

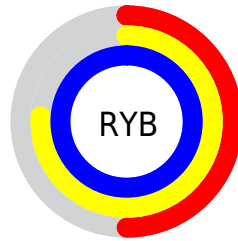
The Yxy color **82.7474, 0.2504, 0.3380** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **38.1789, 0.4476, 0.3213**, and the grayscale version is **68.4650, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.4314, 0.2742, 0.3289**, and **45.1419, 0.2370, 0.3394** is the 20% darker color. If you saturate the color by 10%, you get **80.9342, 0.2426, 0.3401**, and if you desaturate by 10%, it is **85.0571, 0.2601, 0.3360**.

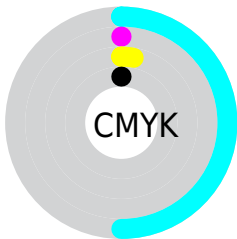
# Distribution



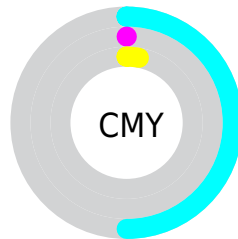
- Red (50%)
- Green (100%)
- Blue (97%)



- Red (50%)
- Yellow (76%)
- Blue (100%)



- Cyan (50%)
- Magenta (0%)
- Yellow (3%)
- Black (0%)



- Cyan (50%)
- Magenta (0%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.7474, 0.2504, 0.3380 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 82.7474, 0.2504, 0.3380 by changing the saturation by 10% instead.





 82.7474, 0.2504,  
0.3380

 82.7474, 0.2504,  
0.3380


504.1443, 0.2781,  
0.3345

 61.9818, 0.2444,  
0.3387


 137.2216, 0.2598,  
0.3369

 45.0180, 0.2370,  
0.3394


 171.6990, 0.2635,  
0.3364

 31.4716, 0.2280,  
0.3402


 211.5158, 0.2667,  
0.3360

 20.9582, 0.2165,  
0.3411

257.0564, 0.2696,  
0.3357

 13.0935, 0.2015,  
0.3420

308.7051, 0.2721,  
0.3353

 7.4929, 0.1812,  
0.3427

366.8464, 0.2743,

 3.7722, 0.1526,

0.3350

431.8647, 0.2763,  
0.3347

0.3424

1.5470, 0.0986,  
0.3432

0.3215, 0.0000,  
0.2747

82.7474, 0.2504,  
0.3380

82.7474, 0.2504,  
0.3380

80.9342, 0.2426,  
0.3401

85.0571, 0.2601,  
0.3360

79.5789, 0.2367,  
0.3422

87.8969, 0.2714,  
0.3341

78.6378, 0.2328,  
0.3443

91.2982, 0.2841,  
0.3322

78.0589, 0.2307,  
0.3464

95.2896, 0.2978,  
0.3306

■ 77.7604, 0.2301,  
0.3484

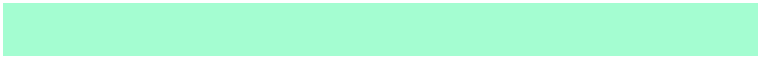
99.8979, 0.3124,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



82.7474, 0.2842, 0.3797



82.7474, 0.2504, 0.3380



82.7474, 0.2334, 0.2969

# Triad

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



82.7474, 0.2504, 0.3380



82.7474, 0.2935, 0.2645



82.7474, 0.3950, 0.3840

# Complementary

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



82.7474, 0.2504, 0.3380



38.1789, 0.4476, 0.3213

# 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.



82.7474, 0.3992, 0.3512



82.7474, 0.2504, 0.3380



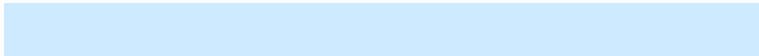
82.7474, 0.3381, 0.2851

# Square

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



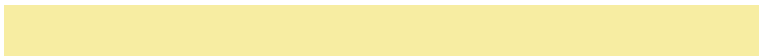
82.7474, 0.2504, 0.3380



82.7474, 0.2568, 0.2582



82.7474, 0.3779, 0.3159

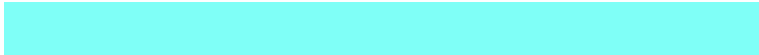


82.7474, 0.3680, 0.4054



# Rectangle

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



82.7474, 0.2504, 0.3380



82.7474, 0.2327, 0.2764



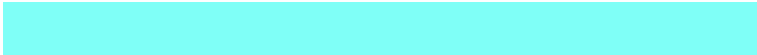
82.7474, 0.3779, 0.3159



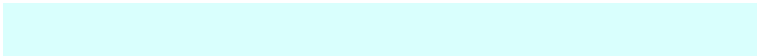
82.7474, 0.3993, 0.3739

# Sweetspot

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



82.7476, 0.2504, 0.3380



93.3012, 0.2911, 0.3314



78.2446, 0.3095, 0.4876



19.7925, 0.2882, 0.3317



0.0000, 0.0000, 0.0000

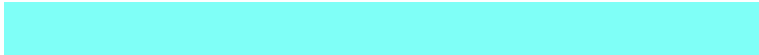


21.4041, 0.3127, 0.3290



# Same Dimension

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



82.7476, 0.2504, 0.3380



80.9670, 0.2427, 0.3400



52.8170, 0.2338, 0.2609



20.4608, 0.2988, 0.3305



40.6398, 0.2300, 0.3481



3.9626, 0.2294, 0.3457



# Inverse Universe

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



38.1789, 0.4476, 0.3213



31.9218, 0.4909, 0.3206



56.4324, 0.4238, 0.3865



18.0054, 0.3285, 0.3276



11.1351, 0.6338, 0.3265

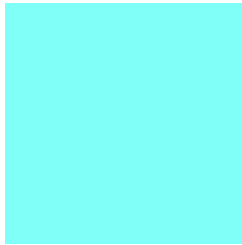


1.0903, 0.6193, 0.3186



# Previews

## White Background



This preview shows how the Yxy color 82.7474, 0.2504, 0.3380 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

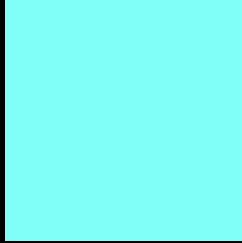
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.7474, 0.2504, 0.3380 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 82.7474, 0.2504, 0.3380**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.7474, 0.2504, 0.3380.

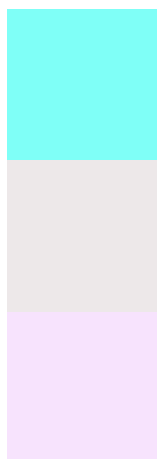


This preview shows how white text looks on a background with the Yxy color 82.7474, 0.2504, 0.3380.

# 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

82.7474, 0.2504, 0.3380

### Protanopia

81.6009, 0.3155, 0.3280

### Deuteranopia

81.8042, 0.3098, 0.3033



## Tritanopia

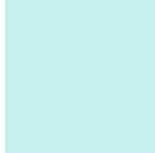
81.8860, 0.2724, 0.3160

# Trichromacy



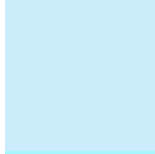
## Original Color

82.7474, 0.2504, 0.3380



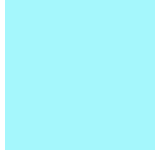
## Protanomaly

80.3635, 0.2868, 0.3311



## Deuteranomaly

80.2299, 0.2831, 0.3140



## Tritanomaly

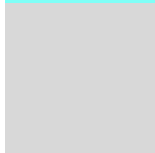
81.5491, 0.2630, 0.3233

# Monochromacy



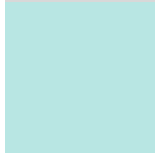
## Original Color

82.7474, 0.2504, 0.3380



## Achromatopsia

68.6685, 0.3127, 0.3290



## Achromatomaly

72.3300, 0.2846, 0.3324

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.7474, 0.2504, 0.3380 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(127, 255, 247)` looks like.

```
.text, #text, p{  
    color:rgb(127, 255, 247)  
}
```

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(127, 255, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 255, 247) }
```

## Border

The CSS property to change the border of an element to Yxy 82.7474, 0.2504, 0.3380 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(127, 255, 247) }
```

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

```
.border{ border-color:rgb(127, 255, 247) }
```

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

Here you see how a box with a 4 pixel rgb(127, 255, 247) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 255, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 255, 247);  
box-shadow:4px 4px 4px 4px rgb(127, 255,  
247) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.7474, 0.2504, 0.3380 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 255, 247) }
```

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

```
.background{ background-color: rgb(127,  
255, 247) }
```

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