

# Converting Colors

$Y_{xy}(157.0740, 0.2571, 0.4054)$

Have a look what the booklet for  
Yxy(157.0740, 0.2571, 0.4054)  
contains.

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# Color

**Yxy(82.1847, 0.2420, 0.3288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70FFFF
RGB	112, 255, 255
RGB Percent	44%, 100%, 100%
CMY	0.5609, 0.0000, 0.0000
CMYK	0.56, 0.00, 0.00, 0.00
HSL	180°, 100%, 72%
HSV	180°, 56%, 100%
XYZ	60.4887, 82.1847, 107.2800
YIQ	212.2430, -85.2280, -30.3160

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">112, 184, 255</a>
<a href="#">Decimal</a>	<a href="#">7405567</a>
<a href="#">CIELab</a>	<a href="#">92.66, -38.27, -11.68</a>
<a href="#">CIELCh</a>	<a href="#">93, 40.008, 196.967</a>
<a href="#">Yxy</a>	<a href="#">82.1847, 0.2420, 0.3288</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4285595647 (0xFF70FFFF)</a>
<a href="#">YUV</a>	<a href="#">212.2430, 21.0792, -87.9131</a>
<a href="#">Hunter-Lab</a>	<a href="#">90.6558, -39.5461, -6.7034</a>

# Details

The Yxy color **82.1847, 0.2420, 0.3288** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **34.0125, 0.4840, 0.3295**, and the grayscale version is **65.9023, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.8540, 0.2676, 0.3289**, and **44.7567, 0.2274, 0.3287** is the 20% darker color. If you saturate the color by 10%, you get **80.7410, 0.2349, 0.3288**, and if you desaturate by 10%, it is **84.0986, 0.2510, 0.3288**.

# Distribution



- Red (44%)
- Green (100%)
- Blue (100%)



- Red (44%)
- Yellow (72%)
- Blue (100%)



- Cyan (56%)
- Magenta (0%)
- Yellow (0%)
- Black (0%)




- Cyan (56%)
- Magenta (0%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.1847, 0.2420, 0.3288 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 82.1847, 0.2420, 0.3288 by changing the saturation by 10% instead.



 82.1847, 0.2420,  
0.3288


 82.1847, 0.2420,  
0.3288


502.2653, 0.2732,  
0.3297


 61.5178, 0.2352,  
0.3284


 136.4330, 0.2525,  
0.3293

 44.6432, 0.2270,  
0.3278


 170.7831, 0.2567,  
0.3294

 31.1765, 0.2170,  
0.3270


 210.4632, 0.2604,  
0.3295

 20.7333, 0.2043,  
0.3256

255.8575, 0.2636,  
0.3296

 12.9292, 0.1879,  
0.3234

307.3505, 0.2664,  
0.3297

 7.3798, 0.1660,  
0.3196


365.3265, 0.2689,


 3.7007, 0.1357,


0.3297


0.3123

430.1700, 0.2712,  
0.3297


 1.5076, 0.0794,  
0.3011


 0.2941, 0.0000,  
0.2041

 82.1847, 0.2420,  
0.3288


 82.1847, 0.2420,  
0.3288


 80.7410, 0.2349,  
0.3288


 84.0986, 0.2510,  
0.3288


 79.7312, 0.2298,  
0.3288

 86.5240, 0.2619,  
0.3289


 79.1056, 0.2266,  
0.3287

 89.4919, 0.2744,  
0.3289

 78.8042, 0.2250,  
0.3287

 93.0326, 0.2883,  
0.3289

 78.7398, 0.2247,  
0.3287

 97.1737, 0.3032,  
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.



82.1847, 0.2742, 0.3743



82.1847, 0.2420, 0.3288



82.1847, 0.2283, 0.2877

# Triad

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



82.1847, 0.2420, 0.3288



82.1847, 0.3018, 0.2647



82.1847, 0.3951, 0.3926

# Complementary

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



82.1847, 0.2420, 0.3288



34.0125, 0.4840, 0.3295

# 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.



82.1847, 0.4051, 0.3596



82.1847, 0.2420, 0.3288



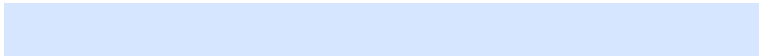
82.1847, 0.3490, 0.2889

# Square

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



82.1847, 0.2420, 0.3288



82.1847, 0.2607, 0.2548



82.1847, 0.3880, 0.3225



82.1847, 0.3626, 0.4116



# Rectangle

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



82.1847, 0.2420, 0.3288



82.1847, 0.2305, 0.2686



82.1847, 0.3880, 0.3225



82.1847, 0.4013, 0.3826

# Sweetspot

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



82.1831, 0.2420, 0.3288



92.6851, 0.2870, 0.3289



76.2909, 0.3053, 0.5100



19.6784, 0.2841, 0.3289



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.



82.1831, 0.2420, 0.3288



80.6316, 0.2344, 0.3288



45.7271, 0.2234, 0.2417



20.4815, 0.2980, 0.3290



41.1433, 0.2247, 0.3287



4.0060, 0.2247, 0.3287



# Inverse Universe

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



34.0125, 0.4840, 0.3295



28.2664, 0.5368, 0.3297



55.5196, 0.4365, 0.3992



17.9871, 0.3295, 0.3291



11.1088, 0.6401, 0.3300

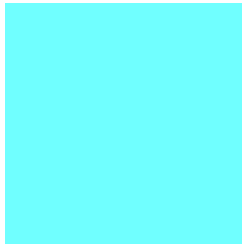


1.0816, 0.6401, 0.3300



# Previews

## White Background



This preview shows how the Yxy color 82.1847, 0.2420, 0.3288 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

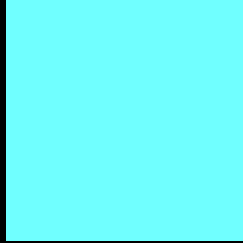
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.1847, 0.2420, 0.3288 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 82.1847, 0.2420, 0.3288**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.1847, 0.2420, 0.3288.

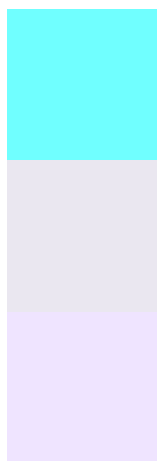


This preview shows how white text looks on a background with the Yxy color 82.1847, 0.2420, 0.3288.

# 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

82.1847, 0.2420, 0.3288

### Protanopia

80.9355, 0.3091, 0.3198

### Deuteranopia

81.0575, 0.3032, 0.3020



## Tritanopia

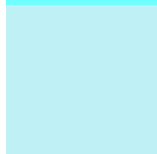
81.2663, 0.2697, 0.3158

# Trichromacy



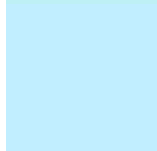
## Original Color

82.1847, 0.2420, 0.3288



## Protanomaly

79.8599, 0.2790, 0.3234



## Deuteranomaly

79.7065, 0.2752, 0.3106



## Tritanomaly

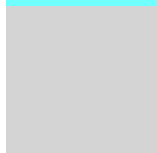
80.9096, 0.2579, 0.3199

# Monochromacy



## Original Color

82.1847, 0.2420, 0.3288



## Achromatopsia

65.8375, 0.3127, 0.3290



## Achromatomaly

70.3183, 0.2790, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.1847, 0.2420, 0.3288 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(112, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(112, 255, 255)  
}
```

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(112, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 255, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 82.1847, 0.2420, 0.3288 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(112, 255, 255) }
```

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

```
.border{ border-color:rgb(112, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(112, 255,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.1847, 0.2420, 0.3288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 255, 255) }
```

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

```
.background{ background-color: rgb(112,  
255, 255) }
```

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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