

# Converting Colors

$Y_{xy}(100.0000, 0.2323, 0.3013)$

Have a look what the booklet for  
Yxy(100.0000, 0.2323, 0.3013)  
contains.

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# Color

**Yxy(82.7331, 0.2446, 0.3288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78FFFF
RGB	120, 255, 255
RGB Percent	47%, 100%, 100%
CMY	0.5298, 0.0000, 0.0000
CMYK	0.53, 0.00, 0.00, 0.00
HSL	180°, 100%, 74%
HSV	180°, 53%, 100%
XYZ	61.5466, 82.7331, 107.3417
YIQ	214.6350, -80.4600, -28.6200

# Conversions

## Conversions Part 2

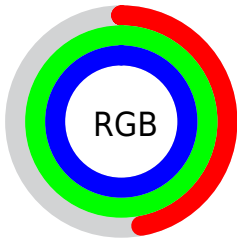
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 188, 255
Decimal	7929855
CIELab	92.90, -36.81, -11.30
CIELCh	93, 38.508, 197.061
Yxy	82.7331, 0.2446, 0.3288
Android (android.graphics.Color)	4286119935 (0xFF78FFFF)
YUV	214.6350, 19.8999, -82.9949
Hunter-Lab	90.9577, -38.3940, -6.2993

# Details

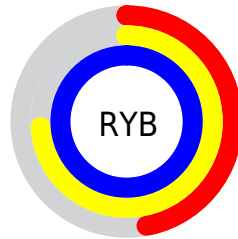
The Yxy color **82.7331, 0.2446, 0.3288** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **36.0237, 0.4694, 0.3295**, and the grayscale version is **67.5784, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.6851, 0.2711, 0.3289**, and **45.0938, 0.2304, 0.3288** is the 20% darker color. If you saturate the color by 10%, you get **81.1411, 0.2369, 0.3288**, and if you desaturate by 10%, it is **84.7966, 0.2542, 0.3288**.

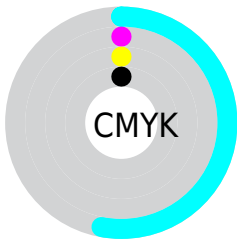
# Distribution



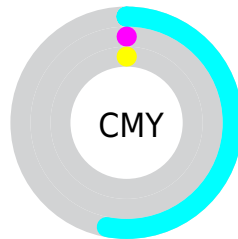
- Red (47%)
- Green (100%)
- Blue (100%)



- Red (47%)
- Yellow (74%)
- Blue (100%)



- Cyan (53%)
- Magenta (0%)
- Yellow (0%)
- Black (0%)




- Cyan (53%)
- Magenta (0%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.7331, 0.2446, 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 82.7331, 0.2446, 0.3288 by changing the saturation by 10% instead.





 82.7331, 0.2446,  
0.3288

 82.7331, 0.2446,  
0.3288


504.0966, 0.2747,  
0.3297

 61.9700, 0.2381,  
0.3284


 137.2016, 0.2548,  
0.3292

 45.0085, 0.2302,  
0.3279


 171.6758, 0.2588,  
0.3294

 31.4641, 0.2205,  
0.3271

 211.4891, 0.2623,  
0.3295

 20.9525, 0.2082,  
0.3258

257.0259, 0.2654,  
0.3295

 13.0893, 0.1924,  
0.3238

308.6707, 0.2681,  
0.3296

 7.4901, 0.1711,  
0.3203


366.8078, 0.2705,


 3.7704, 0.1417,


0.3296


0.3136


431.8216, 0.2727,  
0.3297


 1.5460, 0.0897,  
0.3024

 0.3208, 0.0000,  
0.2181

 82.7331, 0.2446,  
0.3288


 82.7331, 0.2446,  
0.3288


 81.1411, 0.2369,  
0.3288

 84.7966, 0.2542,  
0.3288


 80.0017, 0.2312,  
0.3288


 87.3872, 0.2656,  
0.3289

 79.2624, 0.2274,  
0.3287

 90.5301, 0.2786,  
0.3289

 78.8677, 0.2253,  
0.3287

 94.2545, 0.2928,  
0.3289

 78.7400, 0.2247,  
0.3287

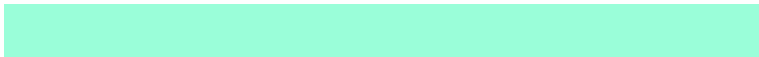
 98.5878, 0.3080,  
0.3290

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.



82.7331, 0.2756, 0.3723



82.7331, 0.2446, 0.3288



82.7331, 0.2314, 0.2893

# Triad

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



82.7331, 0.2446, 0.3288



82.7331, 0.3024, 0.2671



82.7331, 0.3919, 0.3904

# Complementary

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



82.7331, 0.2446, 0.3288



36.0237, 0.4694, 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.



82.7331, 0.4014, 0.3588



82.7331, 0.2446, 0.3288



82.7331, 0.3477, 0.2904

# Square

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



82.7331, 0.2446, 0.3288



82.7331, 0.2628, 0.2575



82.7331, 0.3850, 0.3230



82.7331, 0.3607, 0.4083



# Rectangle

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



82.7331, 0.2446, 0.3288



82.7331, 0.2335, 0.2709



82.7331, 0.3850, 0.3230



82.7331, 0.3978, 0.3809

# Sweetspot

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



82.7262, 0.2446, 0.3288



93.0663, 0.2884, 0.3289



76.8600, 0.3047, 0.4996



19.7535, 0.2854, 0.3289



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

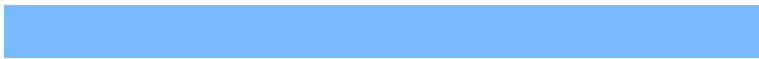
The Same Dimension uses a secret algorithm to generate beautiful new colors.



82.7262, 0.2446, 0.3288



81.0050, 0.2362, 0.3288



46.9391, 0.2274, 0.2445



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.



41.8900, 0.3187, 0.2023



36.0997, 0.3196, 0.1828



58.3466, 0.4264, 0.3981



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542

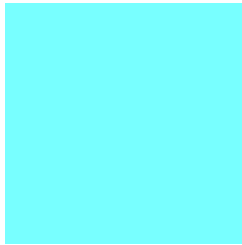


1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 82.7331, 0.2446, 0.3288 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

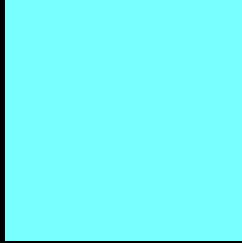
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.7331, 0.2446, 0.3288 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

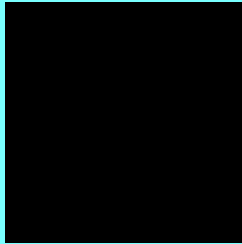
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 82.7331, 0.2446, 0.3288**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.7331, 0.2446, 0.3288.

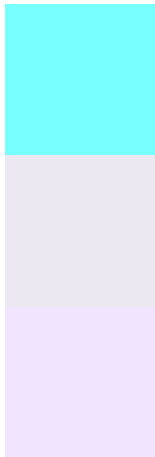


This preview shows how white text looks on a background with the Yxy color 82.7331, 0.2446, 0.3288.

# 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

82.7331, 0.2446, 0.3288

### Protanopia

81.7263, 0.3091, 0.3198

### Deuteranopia

81.2321, 0.3039, 0.3020



## Tritanopia

81.7603, 0.2718, 0.3159

# Trichromacy



## Original Color

82.7331, 0.2446, 0.3288



## Protanomaly

80.3115, 0.2801, 0.3224



## Deuteranomaly

80.1048, 0.2769, 0.3107



## Tritanomaly

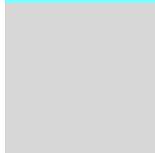
81.4229, 0.2602, 0.3200

# Monochromacy



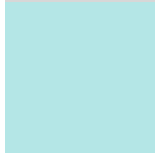
## Original Color

82.7331, 0.2446, 0.3288



## Achromatopsia

67.9542, 0.3127, 0.3290



## Achromatomaly

72.0101, 0.2805, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.7331, 0.2446, 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(120, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(120, 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(120, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 255, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 82.7331, 0.2446, 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(120, 255, 255) }
```

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

```
.border{ border-color:rgb(120, 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(120, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(120, 255,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.7331, 0.2446, 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(120, 255, 255) }
```

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

```
.background{ background-color: rgb(120,  
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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