

# Converting Colors

$Y_{xy}(83.2636, 0.2236, 0.2532)$

Have a look what the booklet for  
Yxy(83.2636, 0.2236, 0.2532)  
contains.

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# Color

**Yxy(78.3658, 0.2486, 0.3185)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88F6FF
RGB	136, 246, 255
RGB Percent	53%, 96%, 100%
CMY	0.4664, 0.0353, 0.0000
CMYK	0.47, 0.04, 0.00, 0.00
HSL	185°, 100%, 77%
HSV	185°, 47%, 100%
XYZ	61.1672, 78.3658, 106.5135
YIQ	214.1360, -68.4490, -20.5210

# Conversions

## Conversions Part 2

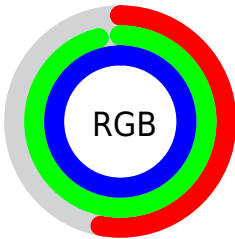
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 193, 255
Decimal	8976127
CIELab	90.95, -29.30, -14.15
CIElCh	91, 32.533, 205.778
Yxy	78.3658, 0.2486, 0.3185
Android (android.graphics.Color)	4287166207 (0xFF88F6FF)
YUV	214.1360, 20.1460, -68.5253
Hunter-Lab	88.5245, -31.5809, -9.3712

# Details

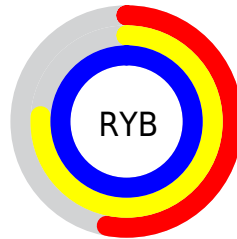
The Yxy color **78.3658, 0.2486, 0.3185** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **43.3124, 0.4366, 0.3387**, and the grayscale version is **67.2495, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.4758, 0.2784, 0.3289**, and **41.9283, 0.2347, 0.3152** is the 20% darker color. If you saturate the color by 10%, you get **75.3116, 0.2388, 0.3159**, and if you desaturate by 10%, it is **81.9454, 0.2601, 0.3210**.

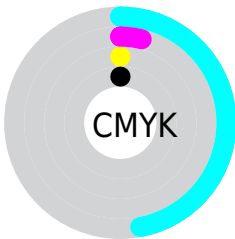
# Distribution



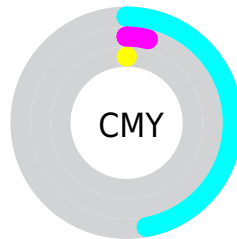
- Red (53%)
- Green (96%)
- Blue (100%)



- Red (53%)
- Yellow (76%)
- Blue (100%)



- Cyan (47%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)




- Cyan (47%)
- Magenta (4%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.3658, 0.2486, 0.3185 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 78.3658, 0.2486, 0.3185 by changing the saturation by 10% instead.




 78.3658, 0.2486,  
0.3185

 78.3658, 0.2486,  
0.3185


489.4082, 0.2772,  
0.3240

 58.3745, 0.2423,  
0.3171


 131.0657, 0.2583,  
0.3205

 42.1098, 0.2347,  
0.3153


 164.5430, 0.2621,  
0.3213

 29.1873, 0.2254,  
0.3129

203.2845, 0.2655,  
0.3219

 19.2225, 0.2135,  
0.3096

247.6746, 0.2684,  
0.3225

 11.8312, 0.1979,  
0.3049

298.0976, 0.2710,  
0.3229

 6.6288, 0.1770,  
0.2976

354.9380, 0.2733,

 3.2311, 0.1474,

0.3234

0.2854

418.5800, 0.2753,  
0.3237

■ 1.2535, 0.0925,  
0.2656

■ 0.1048, 0.0000,  
0.0863

■ 78.3658, 0.2486,  
0.3185

■ 78.3658, 0.2486,  
0.3185

■ 75.3116, 0.2388,  
0.3159

■ 81.9454, 0.2601,  
0.3210

■ 72.7383, 0.2309,  
0.3133

■ 86.0754, 0.2731,  
0.3234

■ 70.6070, 0.2249,  
0.3107

■ 90.7888, 0.2873,  
0.3256

■ 68.8690, 0.2208,  
0.3081

■ 96.1136, 0.3024,  
0.3277

■ 67.4631, 0.2185,  
0.3055

100.0000, 0.3127,  
0.3290

■ 67.0342, 0.2180,  
0.3047

# Harmonies

## Analogous

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



78.3658, 0.2717, 0.3558



78.3658, 0.2486, 0.3185



78.3658, 0.2419, 0.2874

# Triad

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



78.3658, 0.2486, 0.3185



78.3658, 0.3154, 0.2799



78.3658, 0.3750, 0.3884

# Complementary

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



78.3658, 0.2486, 0.3185



43.3124, 0.4366, 0.3387

# 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.



78.3658, 0.3889, 0.3641



78.3658, 0.2486, 0.3185



78.3658, 0.3535, 0.3033

# Square

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



78.3658, 0.2486, 0.3185



78.3658, 0.2786, 0.2677



78.3658, 0.3811, 0.3333



78.3658, 0.3444, 0.3978

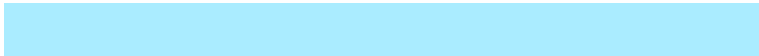


# Rectangle

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



78.3658, 0.2486, 0.3185



78.3658, 0.2471, 0.2739



78.3658, 0.3811, 0.3333



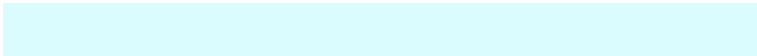
78.3658, 0.3818, 0.3815

# Sweetspot

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



78.3685, 0.2486, 0.3185



92.1341, 0.2912, 0.3262



78.7734, 0.3022, 0.4671



19.4845, 0.2880, 0.3257



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.



78.3685, 0.2486, 0.3185



75.4924, 0.2394, 0.3161



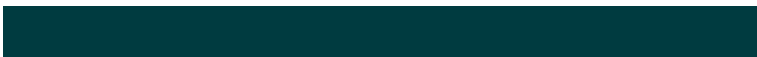
48.2578, 0.2354, 0.2464



20.2321, 0.2980, 0.3271



35.1260, 0.2181, 0.3051



3.4874, 0.2189, 0.3080



# Inverse Universe

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



45.5409, 0.3258, 0.2225



39.4356, 0.3288, 0.2045



65.9702, 0.4054, 0.3983



18.2752, 0.3150, 0.3073



14.2740, 0.3409, 0.1652

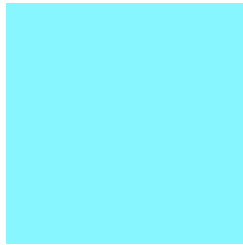


1.3966, 0.3384, 0.1638



# Previews

## White Background



This preview shows how the Yxy color 78.3658, 0.2486, 0.3185 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

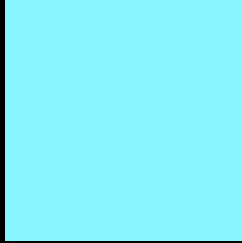
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.3658, 0.2486, 0.3185 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

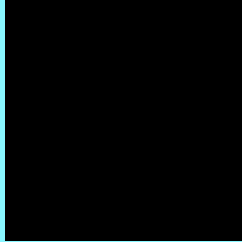
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 78.3658, 0.2486, 0.3185**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.3658, 0.2486, 0.3185.

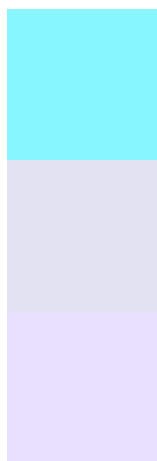


This preview shows how white text looks on a background with the Yxy color 78.3658, 0.2486, 0.3185.

# 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

78.3658, 0.2486, 0.3185

### Protanopia

77.1947, 0.3026, 0.3113

### Deuteranopia

77.3190, 0.2993, 0.2965



## Tritanopia

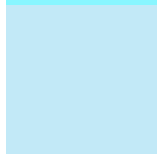
77.9752, 0.2626, 0.3122

# Trichromacy



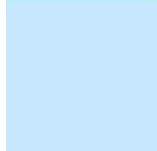
## Original Color

78.3658, 0.2486, 0.3185



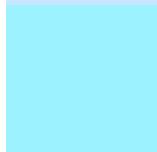
## Protanomaly

76.4626, 0.2796, 0.3136



## Deuteranomaly

76.3776, 0.2775, 0.3031



## Tritanomaly

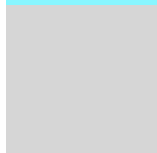
77.8924, 0.2570, 0.3142

# Monochromacy



## Original Color

78.3658, 0.2486, 0.3185



## Achromatopsia

67.2443, 0.3127, 0.3290



## Achromatomaly

70.4890, 0.2844, 0.3255

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.3658, 0.2486, 0.3185 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(136, 246, 255)` looks like.

```
.text, #text, p{  
    color:rgb(136, 246, 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(136, 246, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 246, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 78.3658, 0.2486, 0.3185 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(136, 246, 255) }
```

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

```
.border{ border-color:rgb(136, 246, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 246, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 246, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 246, 255);  
box-shadow:4px 4px 4px 4px rgb(136, 246,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.3658, 0.2486, 0.3185 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 246, 255) }
```

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

```
.background{ background-color: rgb(136,  
246, 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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