

# Converting Colors

$Yxy(77.7472, 0.2471, 0.3178)$

Have a look what the booklet for  
Yxy(77.7472, 0.2471, 0.3178)  
contains.

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# Color

**Yxy(77.5114, 0.2472, 0.3173)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85F5FF
RGB	133, 245, 255
RGB Percent	52%, 96%, 100%
CMY	0.4780, 0.0393, 0.0000
CMYK	0.48, 0.04, 0.00, 0.00
HSL	185°, 100%, 76%
HSV	185°, 48%, 100%
XYZ	60.3871, 77.5114, 106.3858
YIQ	212.6520, -69.9620, -20.6340

# Conversions

## Conversions Part 2

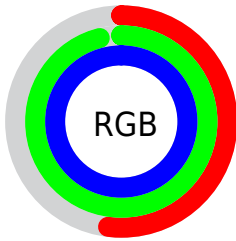
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 191, 255
Decimal	8779263
CIELab	90.56, -29.46, -14.74
CIELCh	91, 32.939, 206.585
Yxy	77.5114, 0.2472, 0.3173
Android (android.graphics.Color)	4286969343 (0xFF85F5FF)
YUV	212.6520, 20.8776, -69.8548
Hunter-Lab	88.0406, -31.6377, -10.0160

# Details

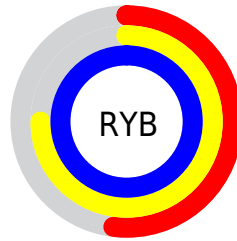
The Yxy color **77.5114, 0.2472, 0.3173** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **42.6362, 0.4408, 0.3397**, and the grayscale version is **66.2061, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.0775, 0.2768, 0.3289**, and **41.3457, 0.2329, 0.3136** is the 20% darker color. If you saturate the color by 10%, you get **74.4228, 0.2375, 0.3145**, and if you desaturate by 10%, it is **81.1240, 0.2586, 0.3200**.

# Distribution



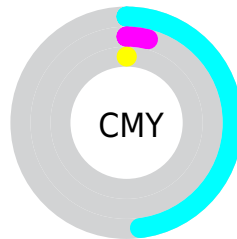
- Red (52%)
- Green (96%)
- Blue (100%)



- Red (52%)
- Yellow (75%)
- Blue (100%)



- Cyan (48%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)




- Cyan (48%)
- Magenta (4%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.5114, 0.2472, 0.3173 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 77.5114, 0.2472, 0.3173 by changing the saturation by 10% instead.




 77.5114, 0.2472,  
0.3173

 77.5114, 0.2472,  
0.3173

486.5059, 0.2764,  
0.3234


 57.6727, 0.2408,  
0.3158


 129.8611, 0.2571,  
0.3195

 41.5456, 0.2330,  
0.3138


 163.1409, 0.2611,  
0.3204

 28.7456, 0.2234,  
0.3112


 201.6699, 0.2645,  
0.3211

 18.8885, 0.2112,  
0.3076

245.8324, 0.2674,  
0.3217

 11.5897, 0.1953,  
0.3024

296.0129, 0.2701,  
0.3222

 6.4650, 0.1738,  
0.2945

352.5957, 0.2724,

 3.1298, 0.1437,

0.3227

0.2812

415.9652, 0.2745,  
0.3231

■ 1.1999, 0.0850,  
0.2603

■ 0.0616, 0.0000,  
0.0529

■ 77.5114, 0.2472,  
0.3173

■ 77.5114, 0.2472,  
0.3173

■ 74.4228, 0.2375,  
0.3145

■ 81.1240, 0.2586,  
0.3200

■ 71.8124, 0.2297,  
0.3116

■ 85.2853, 0.2715,  
0.3226

■ 69.6409, 0.2239,  
0.3088

■ 90.0287, 0.2856,  
0.3251

■ 67.8584, 0.2200,  
0.3060

■ 95.3824, 0.3006,  
0.3274

■ 66.3987, 0.2178,  
0.3032

100.0000, 0.3127,  
0.3290

■ 66.1000, 0.2174,  
0.3026

# Harmonies

## Analogous

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



77.5114, 0.2702, 0.3553



77.5114, 0.2472, 0.3173



77.5114, 0.2409, 0.2860

# Triad

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



77.5114, 0.2472, 0.3173



77.5114, 0.3165, 0.2797



77.5114, 0.3753, 0.3898

# Complementary

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



77.5114, 0.2472, 0.3173



42.6362, 0.4408, 0.3397

# 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.



77.5114, 0.3900, 0.3654



77.5114, 0.2472, 0.3173



77.5114, 0.3551, 0.3036

# Square

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



77.5114, 0.2472, 0.3173



77.5114, 0.2790, 0.2670



77.5114, 0.3827, 0.3342



77.5114, 0.3439, 0.3990

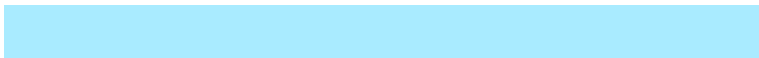


# Rectangle

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



77.5114, 0.2472, 0.3173



77.5114, 0.2464, 0.2727



77.5114, 0.3827, 0.3342



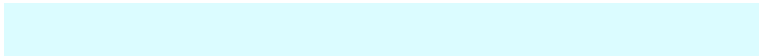
77.5114, 0.3824, 0.3829

# Sweetspot

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



77.5143, 0.2472, 0.3173



91.9904, 0.2912, 0.3260



78.4452, 0.3019, 0.4711



19.4491, 0.2880, 0.3255



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.



77.5143, 0.2472, 0.3173



74.6523, 0.2382, 0.3147



47.3023, 0.2335, 0.2439



20.2111, 0.2980, 0.3270



34.6452, 0.2175, 0.3030



3.4456, 0.2184, 0.3062



# Inverse Universe

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



44.6562, 0.3269, 0.2208



38.8114, 0.3300, 0.2034



65.2817, 0.4082, 0.3999



18.2731, 0.3151, 0.3075



14.2254, 0.3427, 0.1662

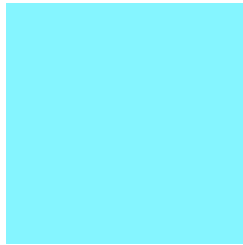


1.3924, 0.3400, 0.1646



# Previews

## White Background



This preview shows how the Yxy color 77.5114, 0.2472, 0.3173 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

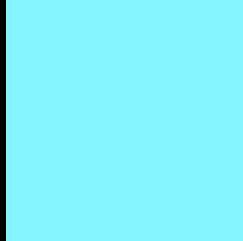
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.5114, 0.2472, 0.3173 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

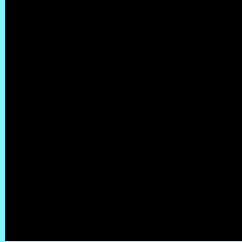
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.5114, 0.2472, 0.3173**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.5114, 0.2472, 0.3173.

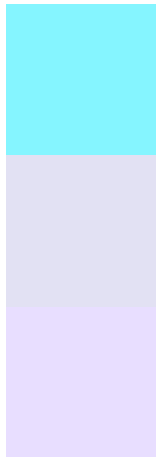


This preview shows how white text looks on a background with the Yxy color 77.5114, 0.2472, 0.3173.

# 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

77.5114, 0.2472, 0.3173

### Protanopia

76.4902, 0.3020, 0.3102

### Deuteranopia

76.6184, 0.2986, 0.2954



## Tritanopia

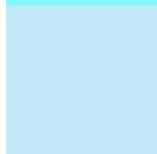
77.4327, 0.2601, 0.3121

# Trichromacy



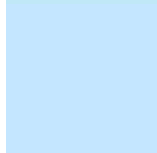
## Original Color

77.5114, 0.2472, 0.3173



## Protanomaly

75.6351, 0.2784, 0.3125



## Deuteranomaly

75.5494, 0.2762, 0.3019



## Tritanomaly

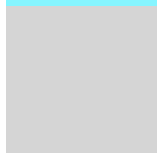
77.4966, 0.2551, 0.3142

# Monochromacy



## Original Color

77.5114, 0.2472, 0.3173



## Achromatopsia

66.5387, 0.3127, 0.3290



## Achromatomaly

69.6422, 0.2837, 0.3255

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.5114, 0.2472, 0.3173 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(133, 245, 255)` looks like.

```
.text, #text, p{  
    color:rgb(133, 245, 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(133, 245, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 245, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 77.5114, 0.2472, 0.3173 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(133, 245, 255) }
```

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

```
.border{ border-color:rgb(133, 245, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 245, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 245, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 245, 255);  
box-shadow:4px 4px 4px 4px rgb(133, 245,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.5114, 0.2472, 0.3173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 245, 255) }
```

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

```
.background{ background-color: rgb(133,  
245, 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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