

# Converting Colors

$Y_{xy}(77.7075, 0.2530, 0.3665)$

Have a look what the booklet for  
Yxy(77.7075, 0.2530, 0.3665)  
contains.

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# Color

**Yxy(77.8445, 0.2531, 0.3670)**

# Conversions

## Conversions Part 1

Format	Color
Hex	69FCDD
RGB	105, 252, 221
RGB Percent	41%, 99%, 87%
CMY	0.5882, 0.0117, 0.1334
CMYK	0.58, 0.00, 0.12, 0.01
HSL	167°, 96%, 70%
HSV	167°, 58%, 99%
XYZ	53.6851, 77.8445, 80.5807
YIQ	204.5130, -77.6610, -40.8050

# Conversions

## Conversions Part 2

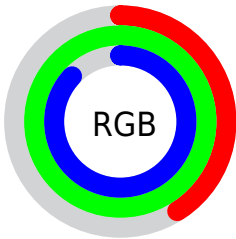
<b>Format</b>	<b>Color</b>
<b>RYB</b>	105, 187, 252
Decimal	6946013
CIELab	90.71, -46.64, 3.07
CIELCh	91, 46.744, 176.229
Yxy	77.8445, 0.2531, 0.3670
Android (android.graphics.Color)	4285136093 (0xFF69FCDD)
YUV	204.5130, 8.1281, -87.2729
Hunter-Lab	88.2295, -45.7896, 7.6106

# Details

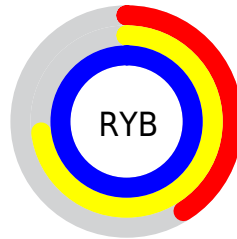
The Yxy color **77.8445, 0.2531, 0.3670** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **32.5827, 0.4546, 0.2983**, and the grayscale version is **60.7128, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.0648, 0.2642, 0.3289**, and **41.9428, 0.2397, 0.3765** is the 20% darker color. If you saturate the color by 10%, you get **76.2616, 0.2479, 0.3747**, and if you desaturate by 10%, it is **79.8945, 0.2602, 0.3595**.

# Distribution



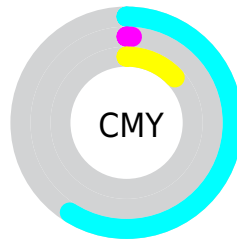
- Red (41%)
- Green (99%)
- Blue (87%)



- Red (41%)
- Yellow (73%)
- Blue (99%)



- Cyan (58%)
- Magenta (0%)
- Yellow (12%)
- Black (1%)




- Cyan (59%)
- Magenta (1%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.8445, 0.2531, 0.3670 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 77.8445, 0.2531, 0.3670 by changing the saturation by 10% instead.




 77.8445, 0.2531,  
0.3670

 77.8445, 0.2531,  
0.3670


487.6386, 0.2803,  
0.3495


 57.9462, 0.2470,  
0.3710


 130.3309, 0.2624,  
0.3609

 41.7654, 0.2395,  
0.3759


 163.6878, 0.2661,  
0.3586

 28.9177, 0.2302,  
0.3821


 202.2998, 0.2693,  
0.3565

 19.0185, 0.2181,  
0.3902

246.5511, 0.2720,  
0.3547

 11.6837, 0.2020,  
0.4011

296.8263, 0.2745,  
0.3532

 6.5287, 0.1796,  
0.4167


353.5097, 0.2766,


 3.1691, 0.1468,

0.3518


0.4403


416.9856, 0.2786,  
0.3506


 1.2207, 0.0000,  
0.5305


 0.0785, 0.0000,  
1.0000


 77.8445, 0.2531,  
0.3670

 77.8445, 0.2531,  
0.3670


 76.2616, 0.2479,  
0.3747


 79.8945, 0.2602,  
0.3595


 75.0953, 0.2447,  
0.3826

 82.4387, 0.2689,  
0.3523


 74.2997, 0.2436,  
0.3904

 85.5128, 0.2790,  
0.3455


 73.8069, 0.2441,  
0.3982

 89.1466, 0.2902,  
0.3392

 73.7383, 0.2443,  
0.3994

 93.3678, 0.3023,  
0.3334

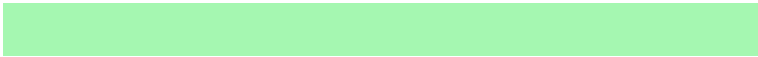
 97.9694, 0.3141,  
0.3282

 98.1042, 0.3128,  
0.3262

# Harmonies

## Analogous

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



77.8445, 0.3015, 0.4134



77.8445, 0.2531, 0.3670



77.8445, 0.2221, 0.3113

# Triad

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



77.8445, 0.2531, 0.3670



77.8445, 0.2645, 0.2439



77.8445, 0.4221, 0.3766

# Complementary

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



77.8445, 0.2531, 0.3670



32.5827, 0.4546, 0.2983

# 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.



77.8445, 0.4121, 0.3337



77.8445, 0.2531, 0.3670



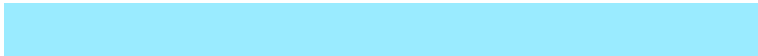
77.8445, 0.3165, 0.2611

# Square

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



77.8445, 0.2531, 0.3670



77.8445, 0.2285, 0.2453



77.8445, 0.3720, 0.2929



77.8445, 0.4003, 0.4128



# Rectangle

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



77.8445, 0.2531, 0.3670



77.8445, 0.2140, 0.2802



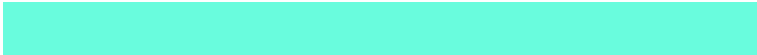
77.8445, 0.3720, 0.2929



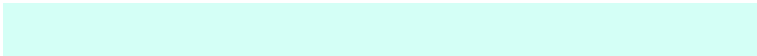
77.8445, 0.4225, 0.3626

# Sweetspot

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



77.8475, 0.2531, 0.3670



92.1095, 0.2918, 0.3384



75.9516, 0.3196, 0.5093



19.5410, 0.2894, 0.3396



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.



77.8475, 0.2531, 0.3670



78.1030, 0.2472, 0.3761



56.3039, 0.2288, 0.2769



19.5421, 0.3008, 0.3341



38.4316, 0.2439, 0.3981



3.5746, 0.2414, 0.3888



# Inverse Universe

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



32.5827, 0.4546, 0.2983



27.7173, 0.5018, 0.2965



42.4804, 0.4643, 0.3716



17.2852, 0.3261, 0.3240



10.9326, 0.6048, 0.3105

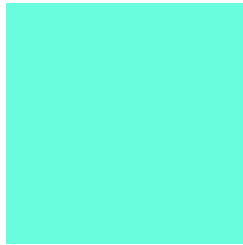


1.0273, 0.5729, 0.2929



# Previews

## White Background



This preview shows how the Yxy color 77.8445, 0.2531, 0.3670 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

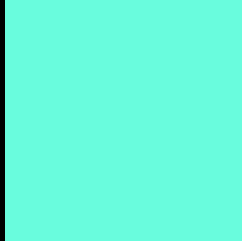
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.8445, 0.2531, 0.3670 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 77.8445, 0.2531, 0.3670**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.8445, 0.2531, 0.3670.

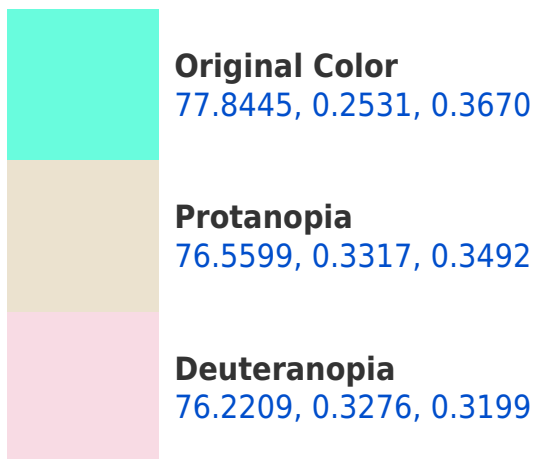


This preview shows how white text looks on a background with the Yxy color 77.8445, 0.2531, 0.3670.

# 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





## Tritanopia

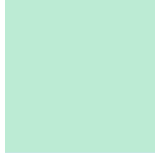
77.1172, 0.2586, 0.3120

# Trichromacy



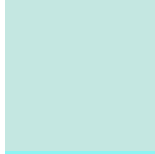
## Original Color

77.8445, 0.2531, 0.3670



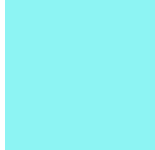
## Protanomaly

74.8615, 0.2959, 0.3554



## Deuteranomaly

74.3238, 0.2933, 0.3357



## Tritanomaly

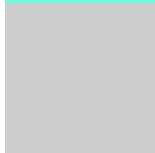
76.8352, 0.2556, 0.3300

# Monochromacy



## Original Color

77.8445, 0.2531, 0.3670



## Achromatopsia

61.0496, 0.3127, 0.3290



## Achromatomaly

65.3807, 0.2840, 0.3423

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.8445, 0.2531, 0.3670 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(105, 252, 221)` looks like.

```
.text, #text, p{  
    color:rgb(105, 252, 221)  
}
```

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(105, 252, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 252, 221) }
```

## Border

The CSS property to change the border of an element to Yxy 77.8445, 0.2531, 0.3670 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(105, 252, 221) }
```

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

```
.border{ border-color:rgb(105, 252, 221) }
```

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

Here you see how a box with a 4 pixel rgb(105, 252, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 252, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 252, 221);  
box-shadow:4px 4px 4px 4px rgb(105, 252,  
221) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.8445, 0.2531, 0.3670 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 252, 221) }
```

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

```
.background{ background-color: rgb(105,  
252, 221) }
```

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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