

# Converting Colors

$Y_{xy}(73.8600, 0.2272, 0.3172)$

Have a look what the booklet for  
Yxy(73.8600, 0.2272, 0.3172)  
contains.

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# Color

**Yxy(73.5816, 0.2270, 0.3167)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3FF5FF
RGB	63, 245, 255
RGB Percent	25%, 96%, 100%
CMY	0.7536, 0.0392, 0.0001
CMYK	0.75, 0.04, 0.00, 0.00
HSL	183°, 100%, 62%
HSV	183°, 75%, 100%
XYZ	52.7408, 73.5816, 106.0161
YIQ	191.7220, -111.6820, -35.4740

# Conversions

## Conversions Part 2

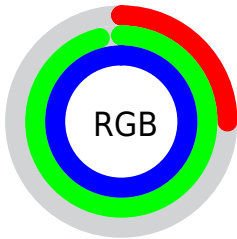
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">63, 156, 255</a>
Decimal	<a href="#">4191743</a>
<a href="#">CIELab</a>	<a href="#">88.72, -40.53, -17.67</a>
<a href="#">CIElCh</a>	<a href="#">89, 44.211, 203.557</a>
<a href="#">Yxy</a>	<a href="#">73.5816, 0.2270, 0.3167</a>
Android (android.graphics.Color)	<a href="#">4282381823</a> ( <a href="#">0xFF3FF5FF</a> )
<a href="#">YUV</a>	<a href="#">191.7220, 31.1961, -112.8892</a>
<a href="#">Hunter-Lab</a>	<a href="#">85.7797, -40.3655, -13.2313</a>

# Details

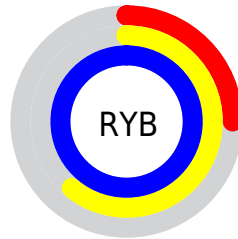
The Yxy color **73.5816, 0.2270, 0.3167** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **26.3511, 0.5685, 0.3367**, and the grayscale version is **52.3766, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.3154, 0.2520, 0.3288**, and **40.0437, 0.2203, 0.3131** is the 20% darker color. If you saturate the color by 10%, you get **72.1352, 0.2230, 0.3149**, and if you desaturate by 10%, it is **75.4270, 0.2329, 0.3185**.

# Distribution



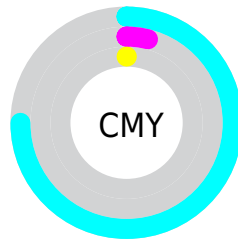
- Red (25%)
- Green (96%)
- Blue (100%)



- Red (25%)
- Yellow (61%)
- Blue (100%)



- Cyan (75%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)




- Cyan (75%)
- Magenta (4%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.5816, 0.2270, 0.3167 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 73.5816, 0.2270, 0.3167 by changing the saturation by 10% instead.





 73.5816, 0.2270,  
0.3167

 73.5816, 0.2270,  
0.3167

473.0281, 0.2652,  
0.3237


 54.4517, 0.2187,  
0.3148


 124.3025, 0.2399,  
0.3194

 38.9629, 0.2086,  
0.3124

 156.6623, 0.2451,  
0.3203

 26.7308, 0.1962,  
0.3090


 194.2008, 0.2495,  
0.3211

 17.3712, 0.1806,  
0.3043

 237.3024, 0.2534,  
0.3218

 10.4995, 0.1606,  
0.2974

286.3516, 0.2569,  
0.3224

 5.7314, 0.1342,  
0.2865

341.7326, 0.2600,

 2.6824, 0.0987,

0.3229

0.2678

403.8300, 0.2627,  
0.3233

■ 0.9683, 0.0000,  
0.2450

■ 0.0000, 0.0000,  
0.0000

■ 73.5816, 0.2270,  
0.3167

■ 73.5816, 0.2270,  
0.3167

■ 72.1352, 0.2230,  
0.3149

■ 75.4270, 0.2329,  
0.3185

■ 71.0210, 0.2208,  
0.3132

■ 77.7109, 0.2408,  
0.3203

■ 70.5789, 0.2201,  
0.3124

■ 80.4766, 0.2506,  
0.3220

■ 83.7603, 0.2620,  
0.3237

87.5946, 0.2750,  
0.3253

92.0093, 0.2892,  
0.3269

97.0323, 0.3044,  
0.3283

99.9990, 0.3127,  
0.3290

# Harmonies

## Analogous

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



73.5816, 0.2589, 0.3703



73.5816, 0.2270, 0.3167



73.5816, 0.2169, 0.2731

# Triad

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



73.5816, 0.2270, 0.3167



73.5816, 0.3116, 0.2611



73.5816, 0.4002, 0.4075

# Complementary

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



73.5816, 0.2270, 0.3167



26.3511, 0.5685, 0.3367

# 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.



73.5816, 0.4187, 0.3717



73.5816, 0.2270, 0.3167



73.5816, 0.3654, 0.2910

# Square

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



73.5816, 0.2270, 0.3167



73.5816, 0.2623, 0.2460



73.5816, 0.4060, 0.3301



73.5816, 0.3586, 0.4253

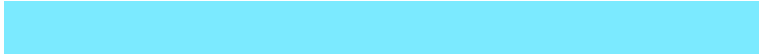


# Rectangle

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



73.5816, 0.2270, 0.3167



73.5816, 0.2226, 0.2549



73.5816, 0.4060, 0.3301



73.5816, 0.4095, 0.3969

# Sweetspot

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



73.5843, 0.2270, 0.3167



88.5969, 0.2783, 0.3257



73.0343, 0.2992, 0.5607



18.6423, 0.2733, 0.3251



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.



73.5843, 0.2270, 0.3167



71.5912, 0.2218, 0.3141



29.8577, 0.1936, 0.1872



20.3104, 0.2980, 0.3277



36.9544, 0.2202, 0.3127



3.6457, 0.2208, 0.3147



# Inverse Universe

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



31.3856, 0.3301, 0.1742



28.4536, 0.3330, 0.1639



49.8079, 0.4791, 0.4244



18.2831, 0.3146, 0.3068



14.4585, 0.3344, 0.1616

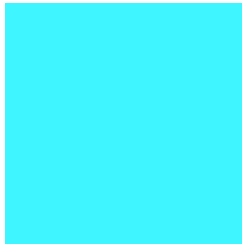


1.4126, 0.3327, 0.1606



# Previews

## White Background



This preview shows how the Yxy color 73.5816, 0.2270, 0.3167 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

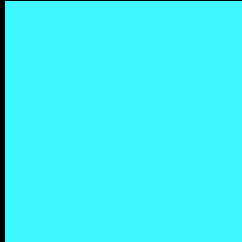
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 73.5816, 0.2270, 0.3167 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

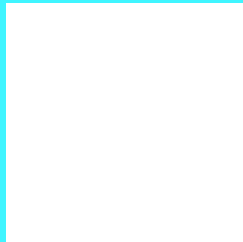
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 73.5816, 0.2270, 0.3167**

## **Background**



This preview shows how black text looks on a background with the Yxy color 73.5816, 0.2270, 0.3167.

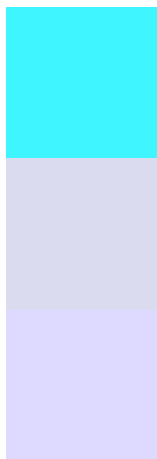


This preview shows how white text looks on a background with the Yxy color 73.5816, 0.2270, 0.3167.

# 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

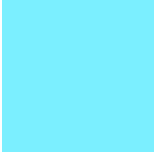
73.5816, 0.2270, 0.3167

### Protanopia

71.9551, 0.2998, 0.3076

### Deuteranopia

72.3753, 0.2918, 0.2894



## **Tritanopia**

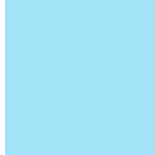
73.1640, 0.2419, 0.3101

# Trichromacy



## Original Color

73.5816, 0.2270, 0.3167



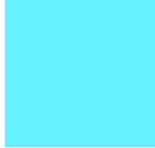
## Protanomaly

69.7608, 0.2621, 0.3092



## Deuteranomaly

70.0507, 0.2580, 0.2971



## Tritanomaly

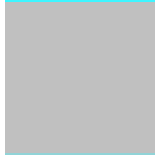
72.8973, 0.2349, 0.3121

# Monochromacy



## Original Color

73.5816, 0.2270, 0.3167



## Achromatopsia

52.7115, 0.3127, 0.3290



## Achromatomaly

57.5146, 0.2659, 0.3237

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 73.5816, 0.2270, 0.3167 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(63, 245, 255)` looks like.

```
.text, #text, p{  
    color:rgb(63, 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(63, 245, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 245, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 73.5816, 0.2270, 0.3167 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(63, 245, 255) }
```

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

```
.border{ border-color:rgb(63, 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(63, 245, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 245, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 245, 255);  
box-shadow:4px 4px 4px 4px rgb(63, 245,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 73.5816, 0.2270, 0.3167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 245, 255) }
```

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

```
.background{ background-color: rgb(63, 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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