

# Converting Colors

$Y_{xy}(70.2722, 0.2423, 0.3034)$

Have a look what the booklet for  
Yxy(70.2722, 0.2423, 0.3034)  
contains.

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# Color

**Yxy(70.0099, 0.2420, 0.3029)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7FE9FF
RGB	127, 233, 255
RGB Percent	50%, 91%, 100%
CMY	0.5023, 0.0862, 0.0000
CMYK	0.50, 0.09, 0.00, 0.00
HSL	190°, 100%, 75%
HSV	190°, 50%, 100%
XYZ	55.9340, 70.0099, 105.1882
YIQ	203.8140, -70.2380, -15.6300

# Conversions

## Conversions Part 2

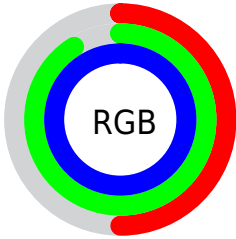
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">127, 185, 255</a>
Decimal	<a href="#">8382975</a>
CIELab	<a href="#">87.00, -24.97, -20.12</a>
CIElCh	<a href="#">87, 32.070, 218.863</a>
Yxy	<a href="#">70.0099, 0.2420, 0.3029</a>
Android (android.graphics.Color)	<a href="#">4286573055</a> ( <a href="#">0xFF7FE9FF</a> )
YUV	<a href="#">203.8140, 25.2347, -67.3659</a>
Hunter-Lab	<a href="#">83.6719, -27.1001, -15.9661</a>

# Details

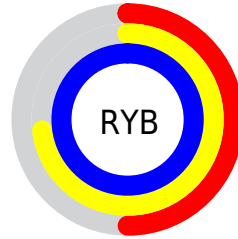
The Yxy color **70.0099, 0.2420, 0.3029** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **44.2549, 0.4439, 0.3521**, and the grayscale version is **60.1195, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.3048, 0.2736, 0.3289**, and **36.5783, 0.2263, 0.2960** is the 20% darker color. If you saturate the color by 10%, you get **65.8485, 0.2316, 0.2968**, and if you desaturate by 10%, it is **74.7308, 0.2540, 0.3088**.

# Distribution



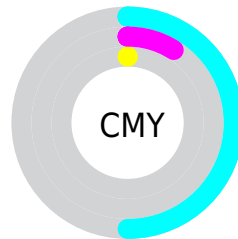
- Red (50%)
- Green (91%)
- Blue (100%)



- Red (50%)
- Yellow (73%)
- Blue (100%)



- Cyan (50%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)



- Cyan (50%)
- Magenta (9%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.0099, 0.2420, 0.3029 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 70.0099, 0.2420, 0.3029 by changing the saturation by 10% instead.





 70.0099, 0.2420,  
0.3029

 70.0099, 0.2420,  
0.3029


460.5848, 0.2740,  
0.3159


 51.5346, 0.2349,  
0.2998

 119.2229, 0.2529,  
0.3075

 36.6342, 0.2263,  
0.2958


 150.7293, 0.2572,  
0.3093

 24.9244, 0.2156,  
0.2906


 187.3483, 0.2610,  
0.3108

 16.0208, 0.2019,  
0.2837

229.4642, 0.2642,  
0.3121

 9.5388, 0.1840,  
0.2740

277.4614, 0.2671,  
0.3132

 5.0943, 0.1598,  
0.2595

331.7243, 0.2696,

 2.3027, 0.1258,

0.3142

0.2362

392.6373, 0.2719,  
0.3151

■ 0.7751, 0.0334,  
0.2034

■ 0.0000, 0.0000,  
0.0000

■ 70.0099, 0.2420,  
0.3029

■ 70.0099, 0.2420,  
0.3029

■ 65.8485, 0.2316,  
0.2968

■ 74.7308, 0.2540,  
0.3088

■ 62.2038, 0.2231,  
0.2906

■ 80.0417, 0.2674,  
0.3144

■ 59.0331, 0.2165,  
0.2843

■ 85.9754, 0.2818,  
0.3196

■ 56.2838, 0.2119,  
0.2781

■ 92.5612, 0.2969,  
0.3245

■ 53.9214, 0.2089,  
0.2721

99.8261, 0.3124,  
0.3289

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.



70.0099, 0.2586, 0.3397



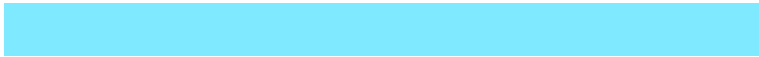
70.0099, 0.2420, 0.3029



70.0099, 0.2429, 0.2766

# Triad

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



70.0099, 0.2420, 0.3029



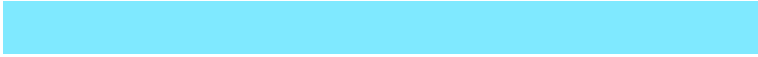
70.0099, 0.3329, 0.2881



70.0099, 0.3643, 0.3964

# Complementary

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



70.0099, 0.2420, 0.3029



44.2549, 0.4439, 0.3521

# 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.



70.0099, 0.3870, 0.3770



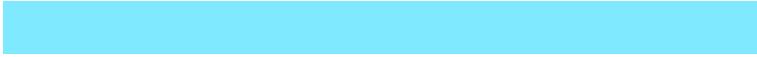
70.0099, 0.2420, 0.3029



70.0099, 0.3688, 0.3155

# Square

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



70.0099, 0.2420, 0.3029



70.0099, 0.2933, 0.2702



70.0099, 0.3890, 0.3473

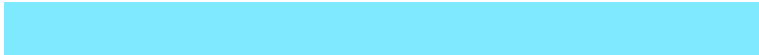


70.0099, 0.3284, 0.3971

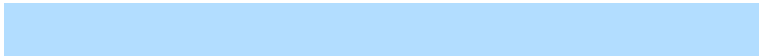


# Rectangle

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



70.0099, 0.2420, 0.3029



70.0099, 0.2532, 0.2675



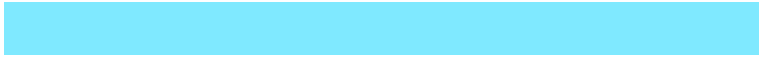
70.0099, 0.3890, 0.3473



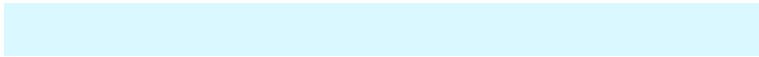
70.0099, 0.3738, 0.3916

# Sweetspot

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



70.0113, 0.2420, 0.3029



89.3355, 0.2896, 0.3222



78.1723, 0.2957, 0.4636



18.8268, 0.2864, 0.3212



0.0000, 0.0000, 0.0000

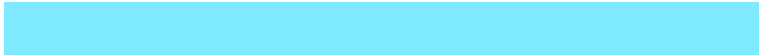


21.4041, 0.3127, 0.3290



# Same Dimension

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



70.0113, 0.2420, 0.3029



65.9375, 0.2318, 0.2970



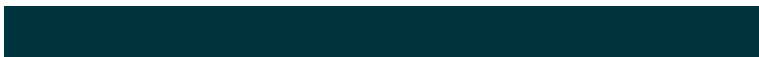
40.3300, 0.2262, 0.2220



19.9195, 0.2980, 0.3248



28.3700, 0.2092, 0.2731



2.8959, 0.2112, 0.2802



# Inverse Universe

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



42.3016, 0.3384, 0.2253



36.4052, 0.3448, 0.2089



70.0303, 0.4072, 0.4152



18.2437, 0.3164, 0.3095



13.5919, 0.3699, 0.1811

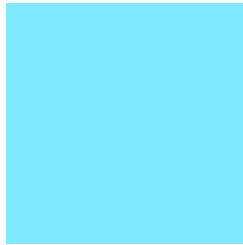


1.3369, 0.3633, 0.1775



# Previews

## White Background



This preview shows how the Yxy color 70.0099, 0.2420, 0.3029 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

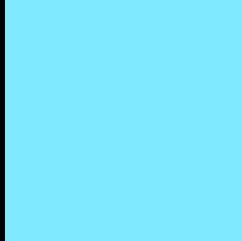
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.0099, 0.2420, 0.3029 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

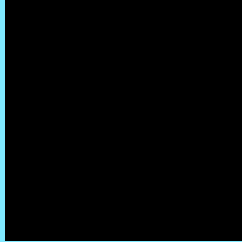
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.0099, 0.2420, 0.3029**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.0099, 0.2420, 0.3029.

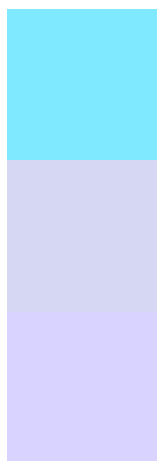


This preview shows how white text looks on a background with the Yxy color 70.0099, 0.2420, 0.3029.

# 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

70.0099, 0.2420, 0.3029

### Protanopia

69.2181, 0.2931, 0.2987

### Deuteranopia

69.0587, 0.2883, 0.2836



## Tritanopia

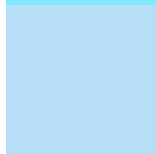
69.7417, 0.2429, 0.3063

# Trichromacy



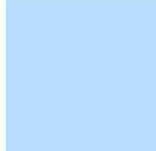
## Original Color

70.0099, 0.2420, 0.3029



## Protanomaly

68.9030, 0.2715, 0.3007



## Deuteranomaly

68.5967, 0.2681, 0.2900



## Tritanomaly

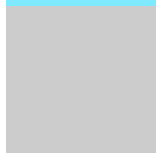
69.8053, 0.2425, 0.3052

# Monochromacy



## Original Color

70.0099, 0.2420, 0.3029



## Achromatopsia

60.3827, 0.3127, 0.3290



## Achromatomaly

63.1587, 0.2808, 0.3194

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.0099, 0.2420, 0.3029 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(127, 233, 255)` looks like.

```
.text, #text, p{  
    color:rgb(127, 233, 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(127, 233, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 233, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 70.0099, 0.2420, 0.3029 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(127, 233, 255) }
```

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

```
.border{ border-color:rgb(127, 233, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(127, 233, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 233, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 233, 255);  
box-shadow:4px 4px 4px 4px rgb(127, 233,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.0099, 0.2420, 0.3029 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 233, 255) }
```

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

```
.background{ background-color: rgb(127,  
233, 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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