

# Converting Colors

$Y_{xy}(69.6050, 0.2414, 0.2931)$

Have a look what the booklet for  
Yxy(69.6050, 0.2414, 0.2931)  
contains.

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# **Color**

**Yxy(69.4402, 0.2445, 0.3007)**

# Conversions

## Conversions Part 1

Format	Color
Hex	86E7FF
RGB	134, 231, 255
RGB Percent	53%, 91%, 100%
CMY	0.4743, 0.0941, 0.0000
CMYK	0.47, 0.09, 0.00, 0.00
HSL	192°, 100%, 76%
HSV	192°, 47%, 100%
XYZ	56.4620, 69.4402, 105.0263
YIQ	204.7330, -65.5160, -13.1000

# Conversions

## Conversions Part 2

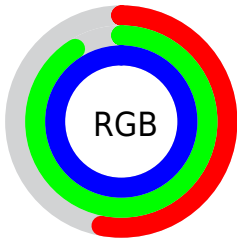
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">134, 188, 255</a>
Decimal	<a href="#">8841215</a>
CIELab	<a href="#">86.72, -22.45, -20.50</a>
CIElCh	<a href="#">87, 30.404, 222.407</a>
Yxy	<a href="#">69.4402, 0.2445, 0.3007</a>
Android (android.graphics.Color)	<a href="#">4287031295</a> ( <a href="#">0xFF86E7FF</a> )
YUV	<a href="#">204.7330, 24.7816, -62.0328</a>
Hunter-Lab	<a href="#">83.3308, -24.8835, -16.3948</a>

# Details

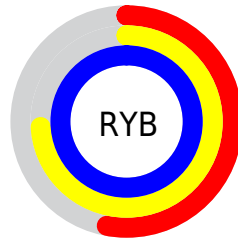
The Yxy color **69.4402, 0.2445, 0.3007** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **47.4514, 0.4314, 0.3543**, and the grayscale version is **60.7518, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.0775, 0.2768, 0.3289**, and **36.1536, 0.2292, 0.2931** is the 20% darker color. If you saturate the color by 10%, you get **64.8020, 0.2333, 0.2937**, and if you desaturate by 10%, it is **74.6707, 0.2572, 0.3075**.

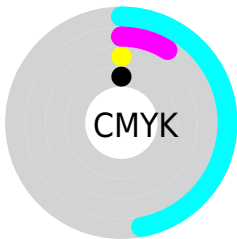
# Distribution



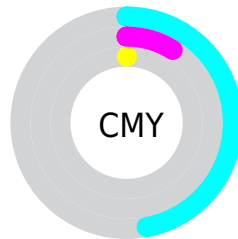
- Red (53%)
- Green (91%)
- Blue (100%)



- Red (53%)
- Yellow (74%)
- Blue (100%)



- Cyan (47%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)




- Cyan (47%)
- Magenta (9%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.4402, 0.2445, 0.3007 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 69.4402, 0.2445, 0.3007 by changing the saturation by 10% instead.




 69.4402, 0.2445,  
0.3007


 69.4402, 0.2445,  
0.3007


458.5820, 0.2754,  
0.3146


 51.0703, 0.2376,  
0.2974


 118.4101, 0.2551,  
0.3057

 36.2646, 0.2292,  
0.2932


 149.7789, 0.2592,  
0.3076

 24.6386, 0.2188,  
0.2877


 186.2494, 0.2628,  
0.3092

 15.8080, 0.2055,  
0.2804

228.2061, 0.2660,  
0.3106

 9.3884, 0.1880,  
0.2703

276.0333, 0.2688,  
0.3118

 4.9954, 0.1642,  
0.2552

330.1154, 0.2712,

 2.2445, 0.1306,

0.3128

390.8368, 0.2734,  
0.3138

0.2312

0.7441, 0.0419,  
0.1960

0.0000, 0.0000,  
0.0000

69.4402, 0.2445,  
0.3007

69.4402, 0.2445,  
0.3007

64.8020, 0.2333,  
0.2937

74.6707, 0.2572,  
0.3075

60.7105, 0.2238,  
0.2864

80.5194, 0.2711,  
0.3139

57.1258, 0.2163,  
0.2791

87.0201, 0.2859,  
0.3198

53.9977, 0.2108,  
0.2718

94.2015, 0.3012,  
0.3253

■ 51.2615, 0.2071,  
0.2645

99.9994, 0.3127,  
0.3290

■ 50.5962, 0.2063,  
0.2627

# Harmonies

## Analogous

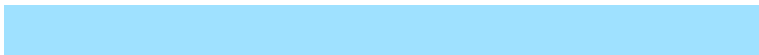
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



69.4402, 0.2585, 0.3349



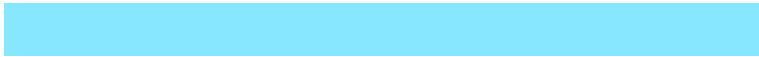
69.4402, 0.2445, 0.3007



69.4402, 0.2474, 0.2772

# Triad

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



69.4402, 0.2445, 0.3007



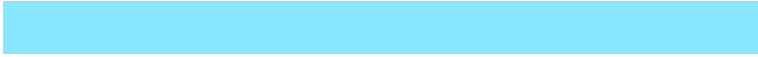
69.4402, 0.3364, 0.2927



69.4402, 0.3583, 0.3942

# Complementary

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



69.4402, 0.2445, 0.3007



47.4514, 0.4314, 0.3543

# 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.



69.4402, 0.3818, 0.3777



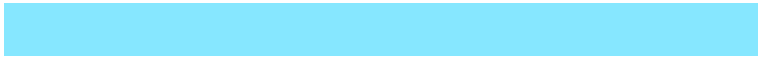
69.4402, 0.2445, 0.3007



69.4402, 0.3692, 0.3197

# Square

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



69.4402, 0.2445, 0.3007



69.4402, 0.2986, 0.2743



69.4402, 0.3861, 0.3502



69.4402, 0.3234, 0.3922

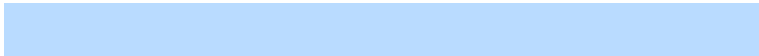


# Rectangle

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



69.4402, 0.2445, 0.3007



69.4402, 0.2585, 0.2696



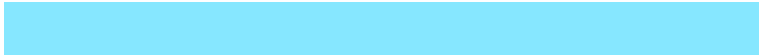
69.4402, 0.3861, 0.3502



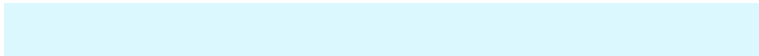
69.4402, 0.3679, 0.3904

# Sweetspot

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



69.4429, 0.2445, 0.3007



89.4106, 0.2911, 0.3217



78.9951, 0.2955, 0.4522



18.8144, 0.2878, 0.3205



0.0000, 0.0000, 0.0000

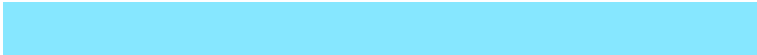


21.4041, 0.3127, 0.3290



# Same Dimension

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



69.4429, 0.2445, 0.3007



64.9940, 0.2337, 0.2940



41.9314, 0.2308, 0.2266



19.8330, 0.2980, 0.3242



26.6555, 0.2066, 0.2639



2.7439, 0.2089, 0.2721



# Inverse Universe

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



44.0932, 0.3396, 0.2333



37.8364, 0.3468, 0.2168



72.4495, 0.4003, 0.4126



18.2350, 0.3169, 0.3101



13.4189, 0.3786, 0.1860

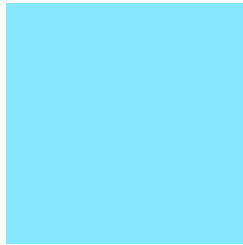


1.3215, 0.3708, 0.1816



# Previews

## White Background



This preview shows how the Yxy color 69.4402, 0.2445, 0.3007 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

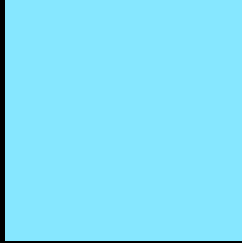
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.4402, 0.2445, 0.3007 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

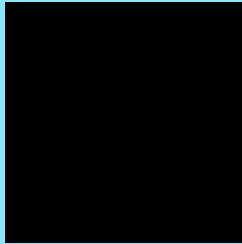
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.4402, 0.2445, 0.3007**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.4402, 0.2445, 0.3007.

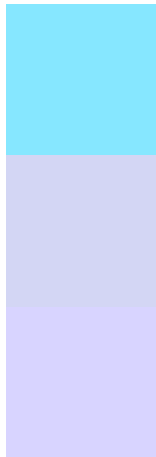


This preview shows how white text looks on a background with the Yxy color 69.4402, 0.2445, 0.3007.

# 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

69.4402, 0.2445, 0.3007

### Protanopia

68.4737, 0.2911, 0.2965

### Deuteranopia

68.9059, 0.2877, 0.2835



## Tritanopia

69.6019, 0.2465, 0.3075

# Trichromacy



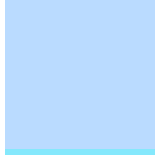
## Original Color

69.4402, 0.2445, 0.3007



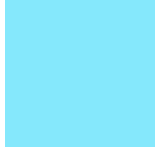
## Protanomaly

68.0310, 0.2713, 0.2974



## Deuteranomaly

68.3221, 0.2692, 0.2890



## Tritanomaly

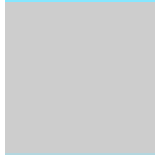
69.7280, 0.2456, 0.3053

# Monochromacy



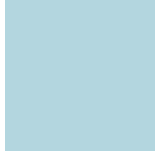
## Original Color

69.4402, 0.2445, 0.3007



## Achromatopsia

61.0496, 0.3127, 0.3290



## Achromatomaly

63.0046, 0.2826, 0.3182

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.4402, 0.2445, 0.3007 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(134, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(134, 231, 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(134, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(134, 231, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 69.4402, 0.2445, 0.3007 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(134, 231, 255) }
```

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

```
.border{ border-color:rgb(134, 231, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(134, 231, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(134, 231, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(134, 231, 255);  
box-shadow:4px 4px 4px 4px rgb(134, 231,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.4402, 0.2445, 0.3007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(134, 231, 255) }
```

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

```
.background{ background-color: rgb(134,  
231, 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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