

Converting Colors

$Y_{xy}(69.7864, 0.2352, 0.2831)$

Have a look what the booklet for
Yxy(69.7864, 0.2352, 0.2831)
contains.

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Color

Yxy(68.9610, 0.2420, 0.3005)

Conversions

Conversions Part 1

Format	Color
Hex	80E7FF
RGB	128, 231, 255
RGB Percent	50%, 91%, 100%
CMY	0.4977, 0.0941, 0.0000
CMYK	0.50, 0.09, 0.00, 0.00
HSL	191°, 100%, 75%
HSV	191°, 50%, 100%
XYZ	55.5360, 68.9610, 104.9905
YIQ	202.9390, -69.0920, -14.3720

Conversions

Conversions Part 2

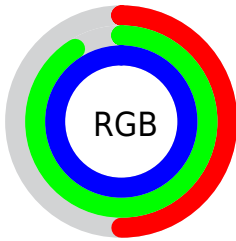
Format	Color
R_{YB}	128, 185, 255
Decimal	8447999
CIE _{Lab}	86.48, -23.74, -20.89
CIE _{LCh}	86, 31.622, 221.347
Yxy	68.9610, 0.2420, 0.3005
Android (android.graphics.Color)	4286638079 (0xFF80E7FF)
YUV	202.9390, 25.6661, -65.7215
Hunter-Lab	83.0428, -25.9505, -16.8301

Details

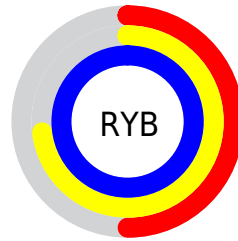
The Yxy color **68.9610, 0.2420, 0.3005** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **45.3047, 0.4408, 0.3542**, and the grayscale version is **59.5617, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.4314, 0.2742, 0.3289**, and **35.8610, 0.2262, 0.2929** is the 20% darker color. If you saturate the color by 10%, you get **64.5642, 0.2313, 0.2938**, and if you desaturate by 10%, it is **73.9342, 0.2543, 0.3070**.

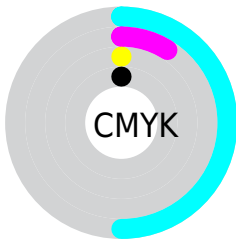
Distribution



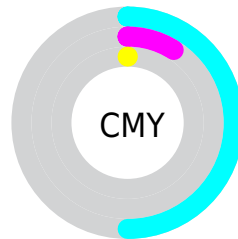
- Red (50%)
- Green (91%)
- Blue (100%)



- 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 68.9610, 0.2420, 0.3005 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 68.9610, 0.2420, 0.3005 by changing the saturation by 10% instead.

 68.9610, 0.2420,
0.3005


 68.9610, 0.2420,
0.3005

456.8934, 0.2741,
0.3146

 50.6799, 0.2349,
0.2971

 117.7259, 0.2530,
0.3055

 35.9540, 0.2262,
0.2928


 148.9785, 0.2573,
0.3075

 24.3986, 0.2154,
0.2873


 185.3237, 0.2610,
0.3091

 15.6296, 0.2017,
0.2798

227.1460, 0.2643,
0.3105

 9.2624, 0.1836,
0.2694

274.8297, 0.2672,
0.3117

 4.9128, 0.1591,
0.2539

328.7593, 0.2697,

 2.1962, 0.1248,

0.3128

0.2292

389.3190, 0.2720,
0.3137

0.7179, 0.0277,
0.1935

0.0000, 0.0000,
0.0000

68.9610, 0.2420,
0.3005

68.9610, 0.2420,
0.3005

64.5642, 0.2313,
0.2938

73.9342, 0.2543,
0.3070

60.6976, 0.2224,
0.2868

79.5108, 0.2679,
0.3132

57.3197, 0.2155,
0.2799

85.7247, 0.2824,
0.3189

54.3783, 0.2106,
0.2730

92.6053, 0.2976,
0.3243

■ 51.7903, 0.2073,
0.2661

100.0000, 0.3127,
0.3290

■ 51.7335, 0.2072,
0.2660

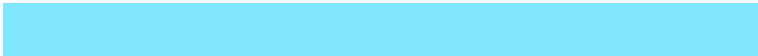
Harmonies

Analogous

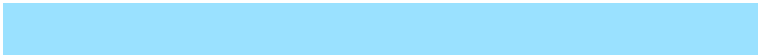
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



68.9610, 0.2571, 0.3365



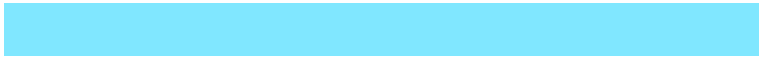
68.9610, 0.2420, 0.3005



68.9610, 0.2444, 0.2756

Triad

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



68.9610, 0.2420, 0.3005



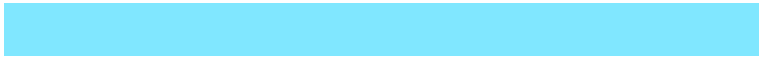
68.9610, 0.3360, 0.2904



68.9610, 0.3613, 0.3966

Complementary

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



68.9610, 0.2420, 0.3005



45.3047, 0.4408, 0.3542

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.



68.9610, 0.3852, 0.3787



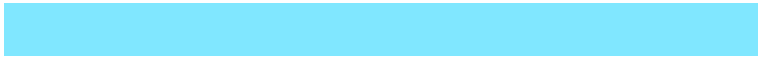
68.9610, 0.2420, 0.3005



68.9610, 0.3707, 0.3182

Square

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



68.9610, 0.2420, 0.3005



68.9610, 0.2966, 0.2717



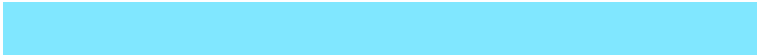
68.9610, 0.3890, 0.3498



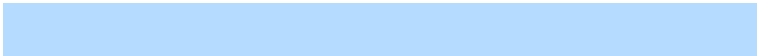
68.9610, 0.3251, 0.3955

Rectangle

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



68.9610, 0.2420, 0.3005



68.9610, 0.2555, 0.2674



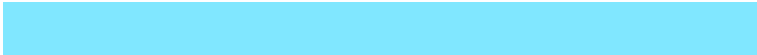
68.9610, 0.3890, 0.3498



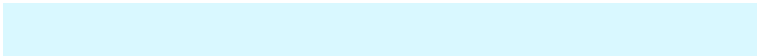
68.9610, 0.3711, 0.3924

Sweetspot

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



68.9636, 0.2420, 0.3005



88.9240, 0.2896, 0.3215



78.3610, 0.2949, 0.4595



18.7269, 0.2864, 0.3204



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.



68.9636, 0.2420, 0.3005



64.4707, 0.2311, 0.2936



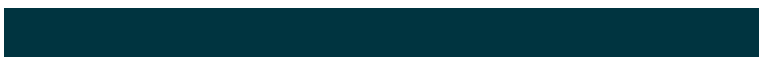
39.9205, 0.2265, 0.2204



19.8629, 0.2980, 0.3244



27.2407, 0.2075, 0.2671



2.7959, 0.2097, 0.2749

Inverse Universe

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



42.4880, 0.3402, 0.2280



36.2571, 0.3476, 0.2110



71.3239, 0.4052, 0.4164



18.2380, 0.3167, 0.3099



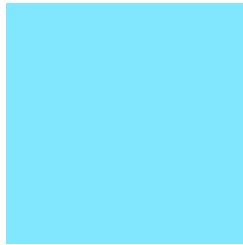
13.4779, 0.3756, 0.1843



1.3268, 0.3682, 0.1802

Previews

White Background



This preview shows how the Yxy color 68.9610, 0.2420, 0.3005 looks on a white background.

Color Contrast Check

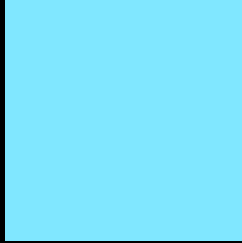
Large Text (above 18pt) WCAG AA × Fail

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 68.9610, 0.2420, 0.3005 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

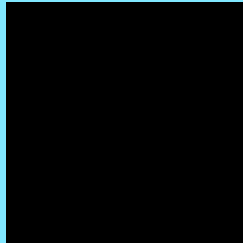
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 68.9610, 0.2420, 0.3005

Background



This preview shows how black text looks on a background with the Yxy color 68.9610, 0.2420, 0.3005.



This preview shows how white text looks on a background with the Yxy color 68.9610, 0.2420, 0.3005.

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

68.9610, 0.2420, 0.3005

Protanopia

68.4737, 0.2911, 0.2965

Deuteranopia

68.1047, 0.2863, 0.2822



Tritanopia

69.1274, 0.2440, 0.3074

Trichromacy



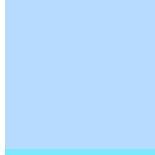
Original Color

68.9610, 0.2420, 0.3005



Protanomaly

67.7875, 0.2701, 0.2973



Deuteranomaly

67.4301, 0.2673, 0.2877



Tritanomaly

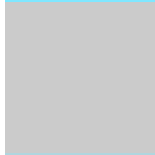
69.2535, 0.2431, 0.3051

Monochromacy



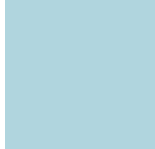
Original Color

68.9610, 0.2420, 0.3005



Achromatopsia

59.7202, 0.3127, 0.3290



Achromatomaly

62.0925, 0.2812, 0.3181

CSS Examples

Text

The CSS property to change the color of the text to Yxy 68.9610, 0.2420, 0.3005 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(128, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(128, 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(128, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 231, 255) }
```

Border

The CSS property to change the border of an element to Yxy 68.9610, 0.2420, 0.3005 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(128, 231, 255) }
```

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

```
.border{ border-color:rgb(128, 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(128, 231, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 231, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 231, 255);  
box-shadow:4px 4px 4px 4px rgb(128, 231,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 68.9610, 0.2420, 0.3005 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 231, 255) }
```

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

```
.background{ background-color: rgb(128,  
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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