

# Converting Colors

$Y_{xy}(30.5069, 0.0830, 0.2069)$

Have a look what the booklet for  
Yxy(30.5069, 0.0830, 0.2069)  
contains.

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# Color

**Yxy(42.7606, 0.1995, 0.2381)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BBFF
RGB	0, 187, 255
RGB Percent	0%, 73%, 100%
CMY	0.9981, 0.2667, 0.0000
CMYK	1.00, 0.27, 0.00, 0.00
HSL	196°, 100%, 50%
HSV	196°, 100%, 100%
XYZ	35.8284, 42.7606, 101.0019
YIQ	138.8390, -133.2800, -18.4960

# Conversions

## Conversions Part 2

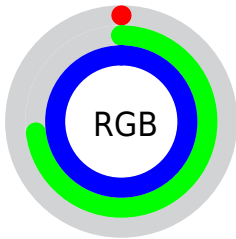
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 108, 255
Decimal	48127
CIELab	71.39, -15.50, -44.38
CIELCh	71, 47.007, 250.744
Yxy	42.7606, 0.1995, 0.2381
Android (android.graphics.Color)	4278238207 (0xFF00BBFF)
YUV	138.8390, 57.2674, -121.7618
Hunter-Lab	65.3916, -16.6342, -45.8035

# Details

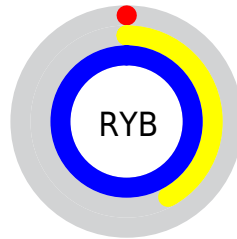
The Yxy color **42.7606, 0.1995, 0.2381** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle saturated azure. A complement of this color would be **25.4537, 0.6067, 0.3563**, and the grayscale version is **25.6228, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.8319, 0.2393, 0.3147**, and **21.1274, 0.1942, 0.2192** is the 20% darker color. If you saturate the color by 10%, you get **42.7032, 0.1994, 0.2380**, and if you desaturate by 10%, it is **45.9357, 0.2038, 0.2481**.

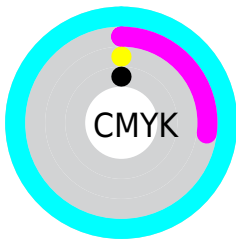
# Distribution



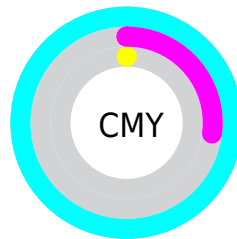
- Red (0%)
- Green (73%)
- Blue (100%)



- Red (0%)
- Yellow (42%)
- Blue (100%)



- Cyan (100%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.7606, 0.1995, 0.2381 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 42.7606, 0.1995, 0.2381 by changing the saturation by 10% instead.





 42.7606, 0.1995,  
0.2381


 42.7606, 0.1995,  
0.2381


357.6263, 0.2533,  
0.2834

 29.6973, 0.1873,  
0.2272


 79.3495, 0.2182,  
0.2543


 19.6090, 0.1723,  
0.2137


 103.6439, 0.2255,  
0.2605


 12.1111, 0.1537,  
0.1964


 132.4507, 0.2318,  
0.2657

 6.8194, 0.1304,  
0.1739

 166.1545, 0.2372,  
0.2702

 3.3494, 0.1011,  
0.1441

 205.1395, 0.2420,  
0.2742

 1.3168, 0.0651,  
0.1045

249.7903, 0.2462,

 0.1541, 0.0000,

0.2776

0.0268

300.4911, 0.2499,  
0.2807

■ 0.0000, 0.0000,  
0.0000

■ 42.7606, 0.1995,  
0.2381

■ 42.7606, 0.1995,  
0.2381

■ 42.7032, 0.1994,  
0.2380

■ 45.9357, 0.2038,  
0.2481

■ 49.5314, 0.2098,  
0.2582

■ 53.6315, 0.2178,  
0.2684

■ 58.2896, 0.2278,  
0.2785

■ 63.5507, 0.2396,  
0.2883

■ 69.4547, 0.2528,  
0.2976

■ 76.0371, 0.2671,  
0.3065

■ 83.3306, 0.2821,  
0.3147

■ 91.3655, 0.2975,  
0.3223

# Harmonies

## Analogous

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



42.7606, 0.1958, 0.2775



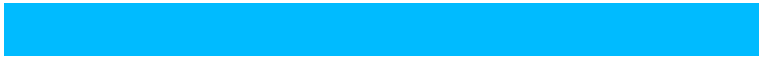
42.7606, 0.1995, 0.2381



42.7606, 0.2290, 0.2249

# Triad

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



42.7606, 0.1995, 0.2381



42.7606, 0.4132, 0.3073



42.7606, 0.3316, 0.4501

# Complementary

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



42.7606, 0.1995, 0.2381



25.4537, 0.6067, 0.3563

# 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.



42.7606, 0.3938, 0.4447



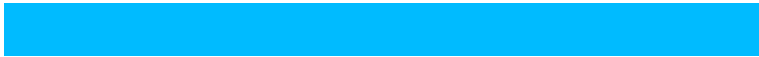
42.7606, 0.1995, 0.2381



42.7606, 0.4457, 0.3576

# Square

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



42.7606, 0.1995, 0.2381



42.7606, 0.3504, 0.2640



42.7606, 0.4369, 0.4073



42.7606, 0.2676, 0.4101



# Rectangle

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



42.7606, 0.1995, 0.2381



42.7606, 0.2622, 0.2291



42.7606, 0.4369, 0.4073



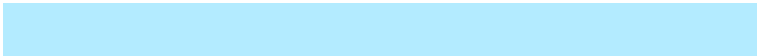
42.7606, 0.3534, 0.4532

# Sweetspot

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



42.7597, 0.1995, 0.2381



75.9089, 0.2668, 0.3063



71.9446, 0.2917, 0.5699



15.6366, 0.2607, 0.3027



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

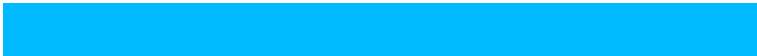


# Same Dimension

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



42.7597, 0.1995, 0.2381



42.7032, 0.1994, 0.2380



10.4403, 0.1565, 0.0831



19.6120, 0.2980, 0.3225



22.5722, 0.1999, 0.2396



2.3777, 0.2031, 0.2510



# Inverse Universe

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



24.8577, 0.4042, 0.2001



24.8421, 0.4044, 0.2001



60.5652, 0.4686, 0.4661



18.2126, 0.3179, 0.3117



13.0066, 0.4027, 0.1992

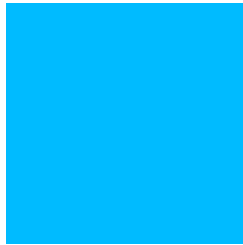


1.2846, 0.3912, 0.1929



# Previews

## White Background



This preview shows how the Yxy color 42.7606, 0.1995, 0.2381 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

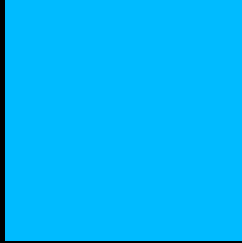
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.7606, 0.1995, 0.2381 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

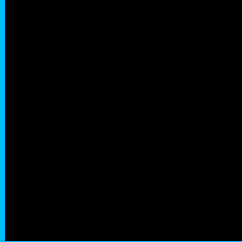
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

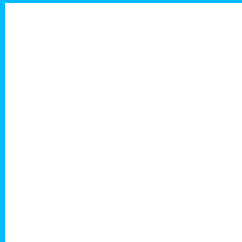
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.7606, 0.1995, 0.2381**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.7606, 0.1995, 0.2381.



This preview shows how white text looks on a background with the Yxy color 42.7606, 0.1995, 0.2381.

# 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

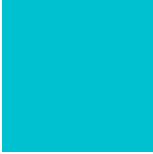
42.7606, 0.1995, 0.2381

### Protanopia

42.2120, 0.2479, 0.2404

### Deuteranopia

42.5104, 0.2331, 0.2279



## Tritanopia

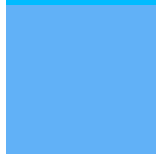
42.6940, 0.2184, 0.3061

# Trichromacy



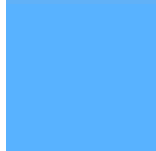
## Original Color

42.7606, 0.1995, 0.2381



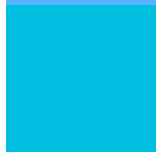
## Protanomaly

40.7011, 0.2177, 0.2366



## Deuteranomaly

41.1355, 0.2115, 0.2289



## Tritanomaly

42.6978, 0.2110, 0.2796

# Monochromacy



## Original Color

42.7606, 0.1995, 0.2381



## Achromatopsia

25.8183, 0.3127, 0.3290



## Achromatomaly

29.2370, 0.2395, 0.2876

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.7606, 0.1995, 0.2381 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(0, 187, 255)` looks like.

```
.text, #text, p{  
  color:rgb(0, 187, 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(0, 187, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 187, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.7606, 0.1995, 0.2381 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(0, 187, 255) }
```

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

```
.border{ border-color:rgb(0, 187, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 187, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 187, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 187, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 187,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.7606, 0.1995, 0.2381 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 187, 255) }
```

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

```
.background{ background-color: rgb(0, 187,  
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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