

# Converting Colors

$Y_{xy}(42.5995, 0.2007, 0.2372)$

Have a look what the booklet for  
Yxy(42.5995, 0.2007, 0.2372)  
contains.

<b>Yxy(42.5445, 0.2006, 0.2370)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(42.5445, 0.2006, 0.2370)**

# Conversions

## Conversions Part 1

Format	Color
Hex	19BAFF
RGB	25, 186, 255
RGB Percent	10%, 73%, 100%
CMY	0.9029, 0.2706, 0.0000
CMYK	0.90, 0.27, 0.00, 0.00
HSL	198°, 100%, 55%
HSV	198°, 90%, 100%
XYZ	36.0102, 42.5445, 100.9579
YIQ	145.7270, -118.1050, -12.6730

# Conversions

## Conversions Part 2

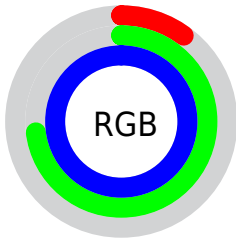
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	25, 120, 255
Decimal	1686271
CIE Lab	71.24, -14.26, -44.60
CIE LCh	71, 46.826, 252.274
Yxy	42.5445, 0.2006, 0.2370
Android (android.graphics.Color)	4279876351 (0xFF19BAFF)
YUV	145.7270, 53.8716, -105.8776
Hunter-Lab	65.2261, -15.5990, -46.1116

# Details

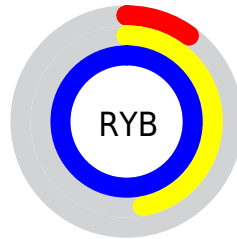
The Yxy color **42.5445, 0.2006, 0.2370** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **29.2910, 0.5757, 0.3715**, and the grayscale version is **28.4089, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.5758, 0.2408, 0.3136**, and **20.8523, 0.1937, 0.2174** is the 20% darker color. If you saturate the color by 10%, you get **39.2939, 0.1962, 0.2261**, and if you desaturate by 10%, it is **46.3307, 0.2070, 0.2485**.

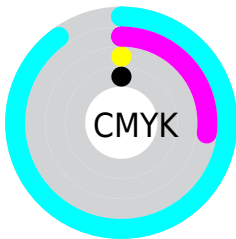
# Distribution



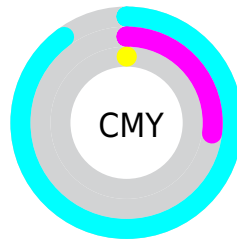
- Red (10%)
- Green (73%)
- Blue (100%)



- Red (10%)
- Yellow (47%)
- Blue (100%)



- Cyan (90%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)




- Cyan (90%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.5445, 0.2006, 0.2370 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 42.5445, 0.2006, 0.2370 by changing the saturation by 10% instead.





 42.5445, 0.2006,  
0.2370

 42.5445, 0.2006,  
0.2370


356.7352, 0.2540,  
0.2827


 29.5279, 0.1884,  
0.2261


 79.0230, 0.2192,  
0.2533


 19.4805, 0.1735,  
0.2124


 103.2538, 0.2264,  
0.2596

 12.0180, 0.1551,  
0.1950


 131.9913, 0.2326,  
0.2649

 6.7559, 0.1318,  
0.1724

 165.6201, 0.2380,  
0.2694

 3.3099, 0.1025,  
0.1425

 204.5244, 0.2428,  
0.2734

 1.2956, 0.0664,  
0.1030

249.0888, 0.2469,

 0.1378, 0.0000,

0.2769

0.0241

299.6976, 0.2506,  
0.2800

■ 0.0000, 0.0000,  
0.0000

■ 42.5445, 0.2006,  
0.2370

■ 42.5445, 0.2006,  
0.2370

■ 39.2939, 0.1962,  
0.2261

■ 46.3307, 0.2070,  
0.2485

■ 50.6539, 0.2154,  
0.2600

■ 55.5675, 0.2258,  
0.2715

■ 61.1179, 0.2380,  
0.2826

■ 67.3455, 0.2515,  
0.2932

■ 74.2871, 0.2660,  
0.3033

■ 81.9760, 0.2812,  
0.3126

■ 90.4433, 0.2967,  
0.3211

■ 99.7180, 0.3123,  
0.3288

# Harmonies

## Analogous

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



42.5445, 0.1955, 0.2749



42.5445, 0.2006, 0.2370



42.5445, 0.2314, 0.2251

# Triad

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



42.5445, 0.2006, 0.2370



42.5445, 0.4155, 0.3098



42.5445, 0.3282, 0.4489

# Complementary

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



42.5445, 0.2006, 0.2370



29.2910, 0.5757, 0.3715

# 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.



42.5445, 0.3908, 0.4457



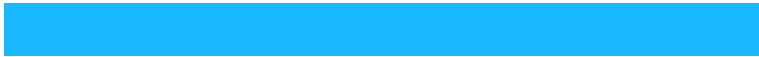
42.5445, 0.2006, 0.2370



42.5445, 0.4460, 0.3602

# Square

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



42.5445, 0.2006, 0.2370



42.5445, 0.3539, 0.2660



42.5445, 0.4352, 0.4095



42.5445, 0.2647, 0.4068



# Rectangle

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



42.5445, 0.2006, 0.2370



42.5445, 0.2652, 0.2300



42.5445, 0.4352, 0.4095



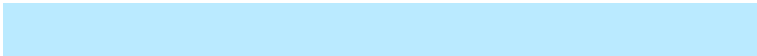
42.5445, 0.3501, 0.4528

# Sweetspot

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



42.5431, 0.2006, 0.2370



76.7332, 0.2710, 0.3064



72.4617, 0.2876, 0.5485



15.8811, 0.2658, 0.3031



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

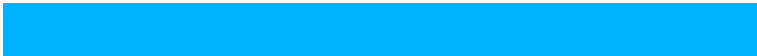


# Same Dimension

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



42.5431, 0.2006, 0.2370



39.2939, 0.1962, 0.2261



12.4077, 0.1620, 0.0960



19.5083, 0.2980, 0.3217



20.8058, 0.1967, 0.2280



2.2172, 0.2003, 0.2409



# Inverse Universe

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



25.4903, 0.4047, 0.2045



24.4979, 0.4167, 0.2069



65.0465, 0.4570, 0.4698



18.2022, 0.3184, 0.3125



12.8283, 0.4147, 0.2058

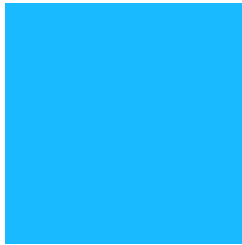


1.2684, 0.4014, 0.1985



# Previews

## White Background



This preview shows how the Yxy color 42.5445, 0.2006, 0.2370 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

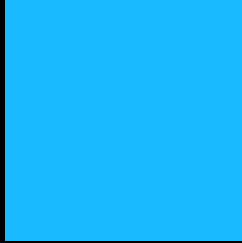
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.5445, 0.2006, 0.2370 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

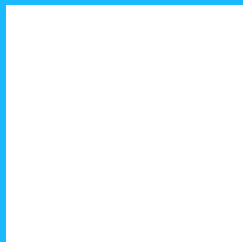
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.5445, 0.2006, 0.2370**

## Background



This preview shows how black text looks on a background with the Yxy color 42.5445, 0.2006, 0.2370.

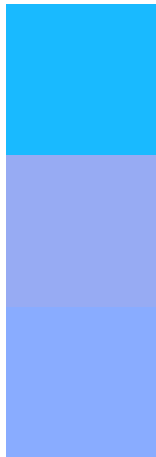


This preview shows how white text looks on a background with the Yxy color 42.5445, 0.2006, 0.2370.

# 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

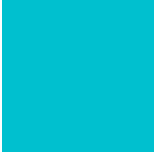
42.5445, 0.2006, 0.2370

### Protanopia

42.1762, 0.2467, 0.2392

### Deuteranopia

42.0434, 0.2323, 0.2265



## **Tritanopia**

42.2043, 0.2184, 0.3060

# Trichromacy



## Original Color

42.5445, 0.2006, 0.2370



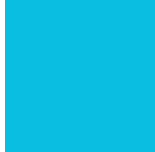
## Protanomaly

40.7693, 0.2208, 0.2360



## Deuteranomaly

41.1511, 0.2141, 0.2283



## Tritanomaly

42.2668, 0.2115, 0.2795

# Monochromacy



## Original Color

42.5445, 0.2006, 0.2370



## Achromatopsia

28.7441, 0.3127, 0.3290



## Achromatomaly

31.8597, 0.2460, 0.2893

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.5445, 0.2006, 0.2370 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(25, 186, 255)` looks like.

```
.text, #text, p{  
    color:rgb(25, 186, 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(25, 186, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(25, 186, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.5445, 0.2006, 0.2370 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(25, 186, 255) }
```

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

```
.border{ border-color:rgb(25, 186, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(25, 186, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(25, 186, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(25, 186, 255);  
box-shadow:4px 4px 4px 4px rgb(25, 186,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.5445, 0.2006, 0.2370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(25, 186, 255) }
```

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

```
.background{ background-color: rgb(25, 186,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor