

# Converting Colors

$Y_{xy}(42.1874, 0.2222, 0.2682)$

Have a look what the booklet for  
Yxy(42.1874, 0.2222, 0.2682)  
contains.

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# Color

**Yxy(42.1489, 0.2220, 0.2675)**

# Conversions

## Conversions Part 1

Format	Color
Hex	52B9E5
RGB	82, 185, 229
RGB Percent	32%, 73%, 90%
CMY	0.6781, 0.2745, 0.1019
CMYK	0.64, 0.19, 0.00, 0.10
HSL	198°, 74%, 61%
HSV	198°, 64%, 90%
XYZ	34.9796, 42.1489, 80.4374
YIQ	159.2190, -75.5120, -8.1520

# Conversions

## Conversions Part 2

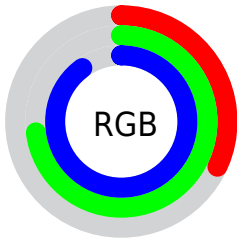
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	82, 143, 229
Decimal	5421541
CIE Lab	70.97, -16.57, -30.84
CIE LCh	71, 35.015, 241.751
Yxy	42.1489, 0.2220, 0.2675
Android (android.graphics.Color)	4283611621 (0xFF52B9E5)
YUV	159.2190, 34.4020, -67.7211
Hunter-Lab	64.9222, -17.4392, -28.0137

# Details

The Yxy color **42.1489, 0.2220, 0.2675** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light muted azure. A complement of this color would be **32.2273, 0.4828, 0.3765**, and the grayscale version is **34.6537, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.1503, 0.2514, 0.3128**, and **19.5197, 0.2031, 0.2509** is the 20% darker color. If you saturate the color by 10%, you get **38.4853, 0.2123, 0.2561**, and if you desaturate by 10%, it is **46.2967, 0.2335, 0.2787**.

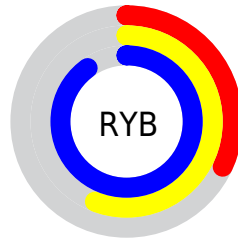
# Distribution



Red (32%)

Green (73%)

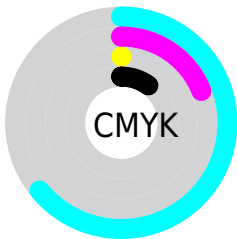
Blue (90%)



Red (32%)

Yellow (56%)

Blue (90%)

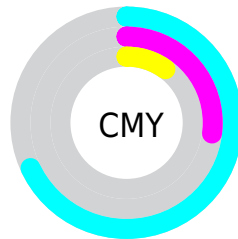


Cyan (64%)

Magenta (19%)

Yellow (0%)

Black (10%)



Cyan (68%)

Magenta (27%)

Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.1489, 0.2220, 0.2675 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 42.1489, 0.2220, 0.2675 by changing the saturation by 10% instead.



■ 42.1489, 0.2220,  
0.2675

■ 42.1489, 0.2220,  
0.2675

■ 355.0998, 0.2662,  
0.2991

■ 29.2179, 0.2115,  
0.2595

■ 78.4249, 0.2377,  
0.2791

■ 19.2457, 0.1984,  
0.2493

■ 102.5387, 0.2437,  
0.2834

■ 11.8480, 0.1817,  
0.2358

■ 131.1490, 0.2488,  
0.2871

■ 6.6402, 0.1598,  
0.2173

■ 164.6400, 0.2532,  
0.2902

■ 3.2381, 0.1305,  
0.1908

■ 203.3962, 0.2571,  
0.2929

■ 1.2573, 0.0903,  
0.1514

■ 247.8019, 0.2605,

■ 0.1078, 0.0000,

0.2952

0.0352

298.2417, 0.2635,  
0.2973

0.0000, 0.0000,  
0.0000

42.1489, 0.2220,  
0.2675

42.1489, 0.2220,  
0.2675

38.4853, 0.2123,  
0.2561

46.2967, 0.2335,  
0.2787

35.2640, 0.2046,  
0.2446

50.9569, 0.2465,  
0.2895


32.4410, 0.1989,  
0.2333


56.1602, 0.2606,  
0.2997


30.9344, 0.1963,  
0.2268


61.9331, 0.2755,  
0.3092

68.3001, 0.2909,  
0.3179

 75.2843, 0.3063,  
0.3259

 82.9070, 0.3216,  
0.3331

 89.1798, 0.3296,  
0.3397

 93.2955, 0.3288,  
0.3464

# Harmonies

## Analogous

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



42.1489, 0.2259, 0.3046



42.1489, 0.2220, 0.2675



42.1489, 0.2396, 0.2499

# Triad

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



42.1489, 0.2220, 0.2675



42.1489, 0.3755, 0.3023



42.1489, 0.3437, 0.4206

# Complementary

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



42.1489, 0.2220, 0.2675



32.2273, 0.4828, 0.3765

# 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.



42.1489, 0.3873, 0.4110



42.1489, 0.2220, 0.2675



42.1489, 0.4080, 0.3413

# Square

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



42.1489, 0.2220, 0.2675



42.1489, 0.3260, 0.2706



42.1489, 0.4118, 0.3805



42.1489, 0.2938, 0.3999



# Rectangle

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



42.1489, 0.2220, 0.2675



42.1489, 0.2622, 0.2491



42.1489, 0.4118, 0.3805



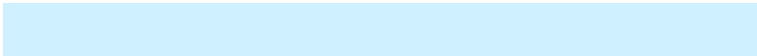
42.1489, 0.3596, 0.4205

# Sweetspot

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



42.1504, 0.2220, 0.2675



83.0237, 0.2832, 0.3137



59.2983, 0.2856, 0.4821



17.2769, 0.2788, 0.3111



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.



42.1504, 0.2220, 0.2675



47.6890, 0.2095, 0.2523



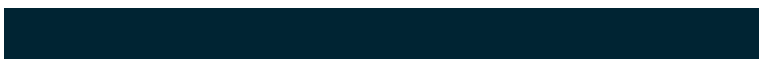
19.4753, 0.1974, 0.1626



15.5688, 0.2981, 0.3218



17.9029, 0.1968, 0.2285



1.4836, 0.2014, 0.2449



# Inverse Universe

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



26.2132, 0.3708, 0.2204



28.3447, 0.3877, 0.2082



57.2912, 0.4228, 0.4498



14.5378, 0.3184, 0.3127



11.0050, 0.4142, 0.2055

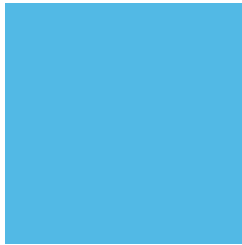


0.8295, 0.3973, 0.1962



# Previews

## White Background



This preview shows how the Yxy color 42.1489, 0.2220, 0.2675 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

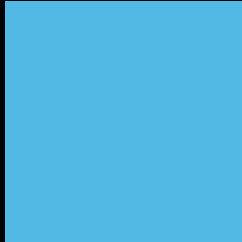
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.1489, 0.2220, 0.2675 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

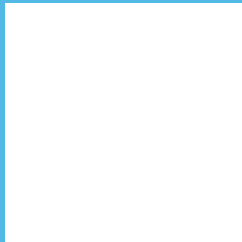
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.1489, 0.2220, 0.2675**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.1489, 0.2220, 0.2675.



This preview shows how white text looks on a background with the Yxy color 42.1489, 0.2220, 0.2675.

# 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

42.1489, 0.2220, 0.2675

### Protanopia

41.8174, 0.2683, 0.2668

### Deuteranopia

41.6436, 0.2563, 0.2502



## Tritanopia

42.1051, 0.2299, 0.3050

# Trichromacy



**Original Color**

42.1489, 0.2220, 0.2675

**Protanomaly**

41.2839, 0.2468, 0.2657

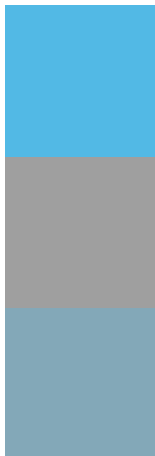
**Deuteranomaly**

41.0966, 0.2405, 0.2546

**Tritanomaly**

42.2773, 0.2268, 0.2910

# Monochromacy



**Original Color**

42.1489, 0.2220, 0.2675

**Achromatopsia**

34.6704, 0.3127, 0.3290

**Achromatomaly**

36.2912, 0.2691, 0.3050

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1489, 0.2220, 0.2675 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(82, 185, 229)` looks like.

```
.text, #text, p{  
    color:rgb(82, 185, 229)  
}
```

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(82, 185, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(82, 185, 229) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1489, 0.2220, 0.2675 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(82, 185, 229) }
```

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

```
.border{ border-color:rgb(82, 185, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(82, 185, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(82, 185, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(82, 185, 229);  
box-shadow:4px 4px 4px 4px rgb(82, 185,  
229) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1489, 0.2220, 0.2675 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(82, 185, 229) }
```

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

```
.background{ background-color: rgb(82, 185,  
229) }
```

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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