

# Converting Colors

$Yxy(42.2806, 0.2073, 0.2664)$

Have a look what the booklet for  
Yxy(42.2806, 0.2073, 0.2664)  
contains.

<b>Yxy(42.2784, 0.2073, 0.2664)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(42.2784, 0.2073, 0.2664)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BDE9
RGB	0, 189, 233
RGB Percent	0%, 74%, 91%
CMY	1.0000, 0.2588, 0.0862
CMYK	1.00, 0.19, 0.00, 0.09
HSL	191°, 100%, 46%
HSV	191°, 100%, 91%
XYZ	32.8991, 42.2784, 83.5252
YIQ	137.5050, -126.7680, -26.3840

# Conversions

## Conversions Part 2

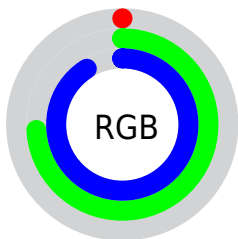
Format	Color
R <sub>Y</sub> B	0, 104, 233
Decimal	48617
CIE Lab	71.06, -24.21, -32.98
CIE LCh	71, 40.907, 233.719
Yxy	42.2784, 0.2073, 0.2664
Android (android.graphics.Color)	4278238697 (0xFF00BDE9)
YUV	137.5050, 47.0790, -120.5919
Hunter-Lab	65.0218, -23.4727, -30.6470

# Details

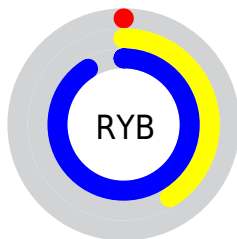
The Yxy color **42.2784, 0.2073, 0.2664** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed azure. A complement of this color would be **19.1268, 0.6217, 0.3446**, and the grayscale version is **25.0752, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.7760, 0.2385, 0.3170**, and **20.5023, 0.2030, 0.2507** is the 20% darker color. If you saturate the color by 10%, you get **42.2848, 0.2073, 0.2664**, and if you desaturate by 10%, it is **44.3925, 0.2107, 0.2732**.

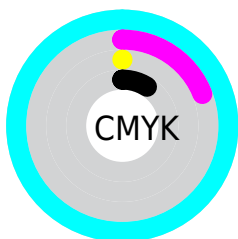
# Distribution



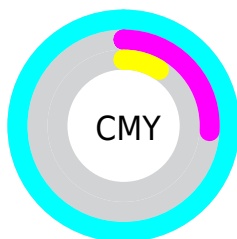
- Red (0%)
- Green (74%)
- Blue (91%)



- Red (0%)
- Yellow (41%)
- Blue (91%)



- Cyan (100%)
- Magenta (19%)
- Yellow (0%)
- Black (9%)




- Cyan (100%)
- Magenta (26%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.2784, 0.2073, 0.2664 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 42.2784, 0.2073, 0.2664 by changing the saturation by 10% instead.





 42.2784, 0.2073,  
0.2664


 42.2784, 0.2073,  
0.2664


355.6357, 0.2580,  
0.2990


 29.3193, 0.1955,  
0.2581


 78.6208, 0.2252,  
0.2784


 19.3225, 0.1809,  
0.2474


 102.7729, 0.2320,  
0.2829


 11.9036, 0.1624,  
0.2332


 131.4249, 0.2379,  
0.2867

 6.6780, 0.1388,  
0.2138

 164.9611, 0.2430,  
0.2899

 3.2616, 0.1080,  
0.1861

 203.7658, 0.2475,  
0.2927

 1.2698, 0.0657,  
0.1457

248.2236, 0.2514,

 0.1176, 0.0000,

0.2951

0.0344

298.7188, 0.2549,  
0.2972

■ 0.0000, 0.0000,  
0.0000

■ 42.2784, 0.2073,  
0.2664

■ 42.2784, 0.2073,  
0.2664

■ 42.2848, 0.2073,  
0.2664

■ 44.3925, 0.2107,  
0.2732

■ 46.7815, 0.2156,  
0.2801

■ 49.5234, 0.2225,  
0.2870

■ 52.6599, 0.2314,  
0.2939

■ 56.2264, 0.2420,  
0.3006

■ 60.2537, 0.2543,  
0.3070

■ 64.7697, 0.2678,  
0.3132

■ 69.7996, 0.2822,  
0.3189

■ 75.3671, 0.2973,  
0.3242

# Harmonies

## Analogous

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



42.2784, 0.2180, 0.3144



42.2784, 0.2073, 0.2664



42.2784, 0.2208, 0.2409

# Triad

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



42.2784, 0.2073, 0.2664



42.2784, 0.3715, 0.2871



42.2784, 0.3626, 0.4365

# Complementary

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



42.2784, 0.2073, 0.2664



19.1268, 0.6217, 0.3446

# 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.



42.2784, 0.4092, 0.4155



42.2784, 0.2073, 0.2664



42.2784, 0.4169, 0.3297

# Square

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



42.2784, 0.2073, 0.2664



42.2784, 0.3115, 0.2545



42.2784, 0.4304, 0.3754



42.2784, 0.3051, 0.4231



# Rectangle

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



42.2784, 0.2073, 0.2664



42.2784, 0.2426, 0.2365



42.2784, 0.4304, 0.3754



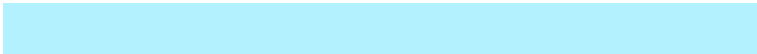
42.2784, 0.3801, 0.4326

# Sweetspot

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



42.2848, 0.2073, 0.2664



79.3917, 0.2675, 0.3131



58.4568, 0.2957, 0.5845



16.4753, 0.2617, 0.3105



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.



42.2848, 0.2073, 0.2664



51.7729, 0.2073, 0.2661



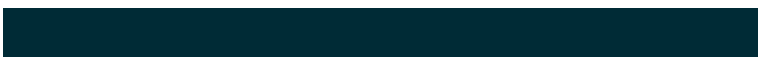
10.7530, 0.1615, 0.1013



16.6102, 0.2981, 0.3244



24.1632, 0.2076, 0.2675



2.0219, 0.2103, 0.2769



# Inverse Universe

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



21.0003, 0.3762, 0.1846



25.7577, 0.3765, 0.1848



42.1992, 0.4900, 0.4491



15.2621, 0.3167, 0.3101



11.9321, 0.3752, 0.1841

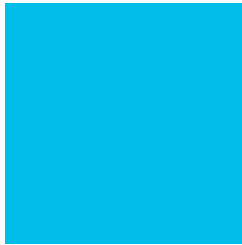


0.9495, 0.3663, 0.1792



# Previews

## White Background



This preview shows how the Yxy color 42.2784, 0.2073, 0.2664 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 42.2784, 0.2073, 0.2664 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

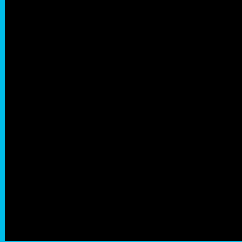
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.2784, 0.2073, 0.2664**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.2784, 0.2073, 0.2664.



This preview shows how white text looks on a background with the Yxy color 42.2784, 0.2073, 0.2664.

# 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

42.2784, 0.2073, 0.2664

### Protanopia

41.7667, 0.2669, 0.2655

### Deuteranopia

42.0125, 0.2514, 0.2457



## Tritanopia

42.2043, 0.2184, 0.3060

# Trichromacy



## Original Color

42.2784, 0.2073, 0.2664



## Protanomaly

40.1018, 0.2299, 0.2634



## Deuteranomaly

40.4383, 0.2226, 0.2501



## Tritanomaly

42.2195, 0.2144, 0.2917

# Monochromacy



## Original Color

42.2784, 0.2073, 0.2664



## Achromatopsia

25.4152, 0.3127, 0.3290



## Achromatomaly

29.2058, 0.2442, 0.3018

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.2784, 0.2073, 0.2664 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, 189, 233)` looks like.

```
.text, #text, p{  
    color:rgb(0, 189, 233)  
}
```

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, 189, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 189, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 42.2784, 0.2073, 0.2664 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, 189, 233) }
```

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

```
.border{ border-color:rgb(0, 189, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 189, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 189, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 189, 233);  
box-shadow:4px 4px 4px 4px rgb(0, 189,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.2784, 0.2073, 0.2664 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 189, 233) }
```

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

```
.background{ background-color: rgb(0, 189,  
233) }
```

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