

# Converting Colors

$Y_{xy}(41.9605, 0.2101, 0.3062)$

Have a look what the booklet for  
Yxy(41.9605, 0.2101, 0.3062)  
contains.

<b>Yxy(42.6940, 0.2184, 0.3061)</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(42.6940, 0.2184, 0.3061)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01C1D0
RGB	1, 193, 208
RGB Percent	0%, 76%, 82%
CMY	0.9977, 0.2432, 0.1842
CMYK	1.00, 0.07, 0.00, 0.18
HSL	184°, 99%, 41%
HSV	184°, 100%, 82%
XYZ	30.4618, 42.6940, 66.3215
YIQ	137.3020, -119.2470, -36.0390

# Conversions

## Conversions Part 2

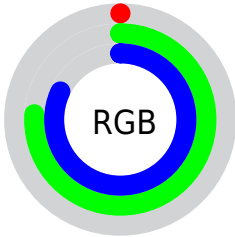
Format	Color
R <sub>Y</sub> B	1, 101, 208
Decimal	115152
CIE Lab	71.35, -34.32, -18.94
CIE LCh	71, 39.202, 208.887
Yxy	42.6940, 0.2184, 0.3061
Android (android.graphics.Color)	4278305232 (0xFF01C1D0)
YUV	137.3020, 34.8541, -119.5369
Hunter-Lab	65.3406, -31.1293, -14.4415

# Details

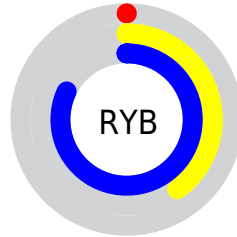
The Yxy color **42.6940, 0.2184, 0.3061** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **13.7730, 0.6349, 0.3337**, and the grayscale version is **24.9846, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.6554, 0.2389, 0.3229**, and **20.7983, 0.2163, 0.2986** is the 20% darker color. If you saturate the color by 10%, you get **42.6733, 0.2184, 0.3060**, and if you desaturate by 10%, it is **43.5250, 0.2205, 0.3085**.

# Distribution



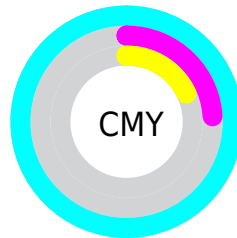
- Red (0%)
- Green (76%)
- Blue (82%)



- Red (0%)
- Yellow (40%)
- Blue (82%)



- Cyan (100%)
- Magenta (7%)
- Yellow (0%)
- Black (18%)




- Cyan (100%)
- Magenta (24%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.6940, 0.2184, 0.3061 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 42.6940, 0.2184, 0.3061 by changing the saturation by 10% instead.





 42.6940, 0.2184,  
0.3061

 42.6940, 0.2184,  
0.3061


357.3518, 0.2644,  
0.3193


 29.6451, 0.2074,  
0.3023


 79.2489, 0.2348,  
0.3113


 19.5694, 0.1937,  
0.2972


 103.5237, 0.2410,  
0.3131


 12.0824, 0.1760,  
0.2899


 132.3092, 0.2464,  
0.3146

 6.7998, 0.1527,  
0.2791

 165.9899, 0.2510,  
0.3159

 3.3372, 0.1211,  
0.2616

 204.9501, 0.2550,  
0.3169

 1.3102, 0.0636,  
0.2342

249.5742, 0.2585,

 0.1491, 0.0000,

0.3178

0.0859

300.2467, 0.2616,  
0.3186

■ 0.0000, 0.0000,  
0.0000

■ 42.6940, 0.2184,  
0.3061

■ 42.6940, 0.2184,  
0.3061

■ 42.6733, 0.2184,  
0.3060

■ 43.5250, 0.2205,  
0.3085

■ 44.5339, 0.2241,  
0.3110

■ 45.7773, 0.2295,  
0.3134

■ 47.2861, 0.2368,  
0.3159

■ 49.0865, 0.2461,  
0.3184

■ 51.2014, 0.2570,  
0.3207

■ 53.6513, 0.2695,  
0.3230

■ 56.4552, 0.2832,  
0.3252

■ 59.6305, 0.2978,  
0.3272

# Harmonies

## Analogous

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



42.6940, 0.2480, 0.3629



42.6940, 0.2184, 0.3061



42.6940, 0.2121, 0.2634

# Triad

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



42.6940, 0.2184, 0.3061



42.6940, 0.3216, 0.2619



42.6940, 0.3989, 0.4172

# Complementary

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



42.6940, 0.2184, 0.3061



13.7730, 0.6349, 0.3337

# 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.



42.6940, 0.4240, 0.3812



42.6940, 0.2184, 0.3061



42.6940, 0.3780, 0.2954

# Square

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



42.6940, 0.2184, 0.3061



42.6940, 0.2675, 0.2429



42.6940, 0.4168, 0.3376



42.6940, 0.3516, 0.4319



# Rectangle

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



42.6940, 0.2184, 0.3061



42.6940, 0.2209, 0.2470



42.6940, 0.4168, 0.3376



42.6940, 0.4104, 0.4068

# Sweetspot

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



42.6956, 0.2184, 0.3061



84.7794, 0.2687, 0.3229



45.1578, 0.2990, 0.5961



17.7806, 0.2632, 0.3219



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.



42.6956, 0.2184, 0.3061



67.5157, 0.2183, 0.3058



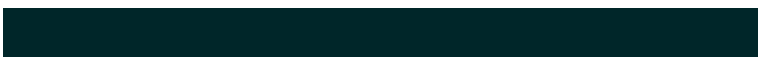
11.9505, 0.1710, 0.1354



13.2543, 0.2983, 0.3273



26.6518, 0.2184, 0.3064



1.5350, 0.2197, 0.3108



# Inverse Universe

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



17.2752, 0.3401, 0.1648



27.3469, 0.3404, 0.1649



26.4011, 0.5218, 0.4237



11.9937, 0.3149, 0.3077



10.7618, 0.3398, 0.1646



0.6063, 0.3360, 0.1625



# Previews

## White Background



This preview shows how the Yxy color 42.6940, 0.2184, 0.3061 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

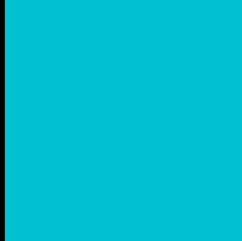
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.6940, 0.2184, 0.3061 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

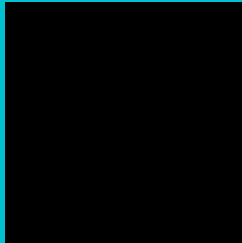
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.6940, 0.2184, 0.3061**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.6940, 0.2184, 0.3061.



This preview shows how white text looks on a background with the Yxy color 42.6940, 0.2184, 0.3061.

# 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

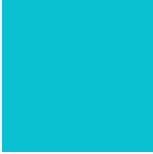
42.7004, 0.2184, 0.3061

### Protanopia

41.9461, 0.2934, 0.2996

### Deuteranopia

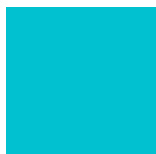
42.0996, 0.2792, 0.2736



## Tritanopia

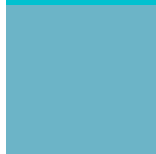
42.8015, 0.2185, 0.3047

# Trichromacy



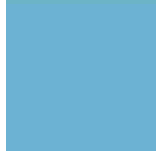
## Original Color

42.7004, 0.2184, 0.3061



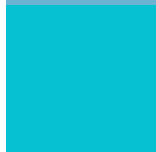
## Protanomaly

39.9542, 0.2471, 0.3009



## Deuteranomaly

39.7321, 0.2400, 0.2816



## Tritanomaly

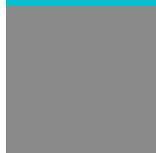
42.7821, 0.2183, 0.3047

# Monochromacy



## Original Color

42.7004, 0.2184, 0.3061



## Achromatopsia

25.0158, 0.3127, 0.3290



## Achromatomaly

28.7845, 0.2500, 0.3184

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.6940, 0.2184, 0.3061 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(1, 193, 208)` looks like.

```
.text, #text, p{  
    color:rgb(1, 193, 208)  
}
```

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(1, 193, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 193, 208) }
```

## Border

The CSS property to change the border of an element to Yxy 42.6940, 0.2184, 0.3061 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(1, 193, 208) }
```

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

```
.border{ border-color:rgb(1, 193, 208) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 193, 208)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 193, 208); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 193, 208);  
box-shadow:4px 4px 4px 4px rgb(1, 193,  
208) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.6940, 0.2184, 0.3061 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 193, 208) }
```

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

```
.background{ background-color: rgb(1, 193,  
208) }
```

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