

# Converting Colors

$Y_{xy}(47.1704, 0.2248, 0.2880)$

Have a look what the booklet for  
Yxy(47.1704, 0.2248, 0.2880)  
contains.

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# Color

**Yxy(46.9744, 0.2247, 0.2873)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4BC5E3
RGB	75, 197, 227
RGB Percent	29%, 77%, 89%
CMY	0.7053, 0.2275, 0.1099
CMYK	0.67, 0.13, 0.00, 0.11
HSL	192°, 73%, 59%
HSV	192°, 67%, 89%
XYZ	36.7391, 46.9744, 79.7894
YIQ	163.9420, -82.3420, -16.5340

# Conversions

## Conversions Part 2

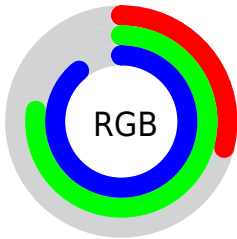
Format	Color
<a href="#">RYB</a>	<a href="#">75, 143, 227</a>
Decimal	<a href="#">4965859</a>
CIELab	<a href="#">74.17, -24.46, -24.84</a>
CIELCh	<a href="#">74, 34.859, 225.447</a>
Yxy	<a href="#">46.9744, 0.2247, 0.2873</a>
Android (android.graphics.Color)	<a href="#">4283155939</a> ( <a href="#">0xFF4BC5E3</a> )
YUV	<a href="#">163.9420, 31.0876, -78.0021</a>
Hunter-Lab	<a href="#">68.5379, -24.2579, -21.0469</a>

# Details

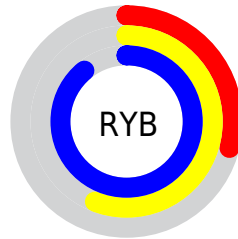
The Yxy color **46.9744, 0.2247, 0.2873** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **26.9697, 0.5077, 0.3602**, and the grayscale version is **36.9932, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.6791, 0.2518, 0.3277**, and **22.6235, 0.2096, 0.2746** is the 20% darker color. If you saturate the color by 10%, you get **44.2105, 0.2170, 0.2801**, and if you desaturate by 10%, it is **50.1288, 0.2343, 0.2945**.

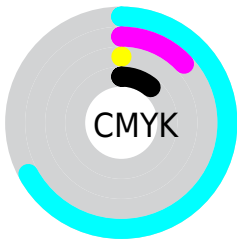
# Distribution



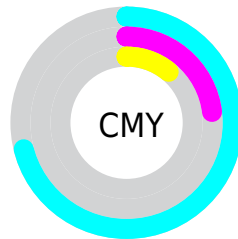
- Red (29%)
- Green (77%)
- Blue (89%)



- Red (29%)
- Yellow (56%)
- Blue (89%)



- Cyan (67%)
- Magenta (13%)
- Yellow (0%)
- Black (11%)



- Cyan (71%)
- Magenta (23%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9744, 0.2247, 0.2873 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 46.9744, 0.2247, 0.2873 by changing the saturation by 10% instead.




 46.9744, 0.2247,  
0.2873

 46.9744, 0.2247,  
0.2873


374.7123, 0.2669,  
0.3091


 33.0154, 0.2148,  
0.2817


 85.6754, 0.2396,  
0.2954

 22.1383, 0.2025,  
0.2744


 111.1862, 0.2453,  
0.2984

 13.9585, 0.1868,  
0.2646


 141.3164, 0.2502,  
0.3009

 8.0918, 0.1664,  
0.2509

 176.4505, 0.2544,  
0.3030

 4.1538, 0.1389,  
0.2308

216.9727, 0.2582,  
0.3049

 1.7599, 0.1013,  
0.1992

263.2674, 0.2614,

 0.4620, 0.0000,

0.3065

0.1381

315.7192, 0.2643,  
0.3079

■ 0.0000, 0.0000,  
0.0000

■ 46.9744, 0.2247,  
0.2873

■ 46.9744, 0.2247,  
0.2873

■ 44.2105, 0.2170,  
0.2801

■ 50.1288, 0.2343,  
0.2945

■ 41.7949, 0.2114,  
0.2728

■ 53.7003, 0.2455,  
0.3014

■ 39.6819, 0.2075,  
0.2657


■ 57.7185, 0.2583,  
0.3081


■ 39.0620, 0.2065,  
0.2635


■ 62.2089, 0.2722,  
0.3144

■ 67.1948, 0.2869,  
0.3202

 72.6975, 0.3021,  
0.3256

 78.7375, 0.3175,  
0.3305

 85.0029, 0.3317,  
0.3349

 87.5716, 0.3312,  
0.3393

# Harmonies

## Analogous

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



46.9744, 0.2399, 0.3311



46.9744, 0.2247, 0.2873



46.9744, 0.2305, 0.2597

# Triad

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



46.9744, 0.2247, 0.2873



46.9744, 0.3483, 0.2854



46.9744, 0.3670, 0.4152

# Complementary

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



46.9744, 0.2247, 0.2873



26.9697, 0.5077, 0.3602

# 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.



46.9744, 0.4003, 0.3939



46.9744, 0.2247, 0.2873



46.9744, 0.3902, 0.3201

# Square

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



46.9744, 0.2247, 0.2873



46.9744, 0.2987, 0.2609



46.9744, 0.4095, 0.3588



46.9744, 0.3207, 0.4113



# Rectangle

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



46.9744, 0.2247, 0.2873



46.9744, 0.2457, 0.2520



46.9744, 0.4095, 0.3588



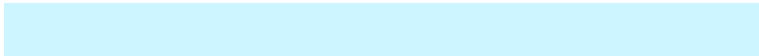
46.9744, 0.3802, 0.4104

# Sweetspot

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



46.9761, 0.2247, 0.2873



85.3178, 0.2820, 0.3184



57.4091, 0.2920, 0.5107



17.8671, 0.2779, 0.3167



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.



46.9761, 0.2247, 0.2873



56.3754, 0.2148, 0.2774



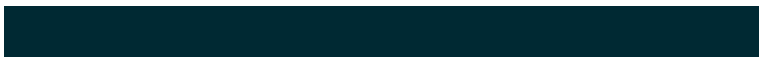
21.2702, 0.1980, 0.1763



15.8272, 0.2981, 0.3242



22.9525, 0.2068, 0.2645



1.8198, 0.2097, 0.2750



# Inverse Universe

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



25.4115, 0.3540, 0.2032



28.5189, 0.3646, 0.1903



49.0389, 0.4393, 0.4392



14.5639, 0.3168, 0.3103



11.5148, 0.3780, 0.1856

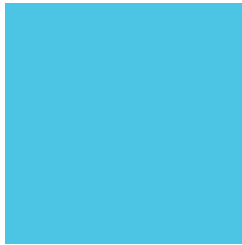


0.8634, 0.3681, 0.1802



# Previews

## White Background



This preview shows how the Yxy color 46.9744, 0.2247, 0.2873 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

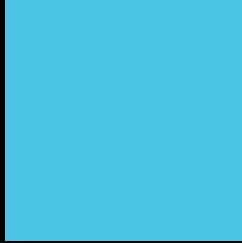
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9744, 0.2247, 0.2873 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 46.9744, 0.2247, 0.2873**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9744, 0.2247, 0.2873.

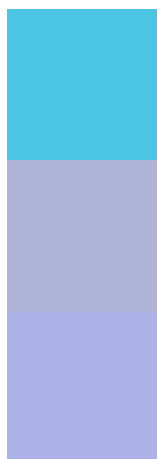


This preview shows how white text looks on a background with the Yxy color 46.9744, 0.2247, 0.2873.

# 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

46.9744, 0.2247, 0.2873

### Protanopia

46.1452, 0.2816, 0.2835

### Deuteranopia

46.3810, 0.2694, 0.2638



## Tritanopia

46.9821, 0.2284, 0.3059

# Trichromacy



## Original Color

46.9744, 0.2247, 0.2873

## Protanomaly

45.6356, 0.2549, 0.2850

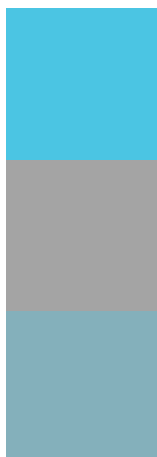
## Deuteranomaly

45.7295, 0.2480, 0.2703

## Tritanomaly

46.8422, 0.2272, 0.2991

# Monochromacy



## Original Color

46.9744, 0.2247, 0.2873

## Achromatopsia

37.1238, 0.3127, 0.3290

## Achromatomaly

39.5441, 0.2691, 0.3128

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9744, 0.2247, 0.2873 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(75, 197, 227)` looks like.

```
.text, #text, p{  
    color:rgb(75, 197, 227)  
}
```

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(75, 197, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 197, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9744, 0.2247, 0.2873 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(75, 197, 227) }
```

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

```
.border{ border-color:rgb(75, 197, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 197, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 197, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 197, 227);  
box-shadow:4px 4px 4px 4px rgb(75, 197,  
227) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9744, 0.2247, 0.2873 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 197, 227) }
```

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

```
.background{ background-color: rgb(75, 197,  
227) }
```

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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