

# Converting Colors

$Y_{xy}(43.7332, 0.2167, 0.2644)$

Have a look what the booklet for  
Yxy(43.7332, 0.2167, 0.2644)  
contains.

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# Color

**Yxy(43.7534, 0.2167, 0.2643)**

# Conversions

## Conversions Part 1

Format	Color
Hex	46BDEC
RGB	70, 189, 236
RGB Percent	27%, 74%, 93%
CMY	0.7248, 0.2589, 0.0745
CMYK	0.70, 0.20, 0.00, 0.07
HSL	197°, 81%, 60%
HSV	197°, 70%, 93%
XYZ	35.8735, 43.7534, 85.9176
YIQ	158.7770, -86.0110, -10.6110

# Conversions

## Conversions Part 2

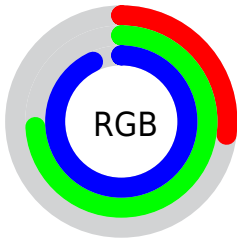
<b>Format</b>	<b>Color</b>
<b>RYB</b>	70, 139, 236
Decimal	4636140
CIELab	72.06, -18.24, -32.98
CIELCh	72, 37.691, 241.050
Yxy	43.7534, 0.2167, 0.2643
Android (android.graphics.Color)	4282826220 (0xFF46BDEC)
YUV	158.7770, 38.0709, -77.8574
Hunter-Lab	66.1464, -18.9493, -30.7094

# Details

The Yxy color **43.7534, 0.2167, 0.2643** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted azure. A complement of this color would be **31.0476, 0.5087, 0.3753**, and the grayscale version is **34.4382, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.8432, 0.2488, 0.3174**, and **20.9036, 0.2023, 0.2481** is the 20% darker color. If you saturate the color by 10%, you get **40.2278, 0.2085, 0.2535**, and if you desaturate by 10%, it is **47.7598, 0.2269, 0.2750**.

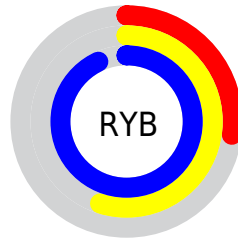
# Distribution



Red (27%)

Green (74%)

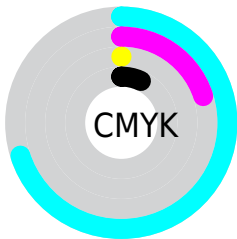
Blue (93%)



Red (27%)

Yellow (55%)

Blue (93%)

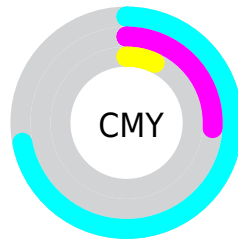


Cyan (70%)

Magenta (20%)

Yellow (0%)

Black (7%)



Cyan (72%)

Magenta (26%)


Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.7534, 0.2167, 0.2643 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 43.7534, 0.2167, 0.2643 by changing the saturation by 10% instead.




 43.7534, 0.2167,  
0.2643


 43.7534, 0.2167,  
0.2643


361.7010, 0.2629,  
0.2973


 30.4767, 0.2059,  
0.2560


 80.8465, 0.2330,  
0.2764


 20.2007, 0.1925,  
0.2455


 105.4318, 0.2393,  
0.2809

 12.5410, 0.1755,  
0.2317


 134.5553, 0.2446,  
0.2847

 7.1133, 0.1535,  
0.2130

 168.6015, 0.2493,  
0.2880

 3.5330, 0.1245,  
0.1865

207.9548, 0.2533,  
0.2908

 1.4159, 0.0861,  
0.1479

252.9995, 0.2569,

 0.2284, 0.0000,

0.2932

0.0598

304.1201, 0.2601,  
0.2954

0.0000, 0.0000,  
0.0000

43.7534, 0.2167,  
0.2643

43.7534, 0.2167,  
0.2643

40.2278, 0.2085,  
0.2535

47.7598, 0.2269,  
0.2750

37.1337, 0.2023,  
0.2427

52.2803, 0.2388,  
0.2854

34.4657, 0.1979,  
0.2324

57.3495, 0.2521,  
0.2954

62.9974, 0.2664,  
0.3048

69.2514, 0.2815,  
0.3135

■ 76.1370, 0.2968,  
0.3216

■ 83.6778, 0.3123,  
0.3288

■ 91.1330, 0.3249,  
0.3354

■ 95.2013, 0.3243,  
0.3418

# Harmonies

## Analogous

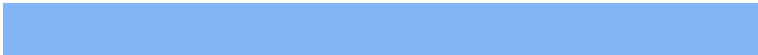
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



43.7534, 0.2212, 0.3039



43.7534, 0.2167, 0.2643



43.7534, 0.2346, 0.2455

# Triad

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



43.7534, 0.2167, 0.2643



43.7534, 0.3784, 0.2997



43.7534, 0.3464, 0.4268

# Complementary

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



43.7534, 0.2167, 0.2643



31.0476, 0.5087, 0.3753

# 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.



43.7534, 0.3926, 0.4153



43.7534, 0.2167, 0.2643



43.7534, 0.4136, 0.3406

# Square

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



43.7534, 0.2167, 0.2643



43.7534, 0.3254, 0.2666



43.7534, 0.4182, 0.3822



43.7534, 0.2935, 0.4056



# Rectangle

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



43.7534, 0.2167, 0.2643



43.7534, 0.2581, 0.2445



43.7534, 0.4182, 0.3822



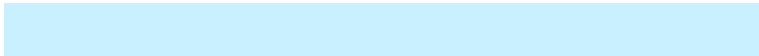
43.7534, 0.3633, 0.4262

# Sweetspot

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



43.7550, 0.2167, 0.2643



81.9118, 0.2802, 0.3128



62.5930, 0.2851, 0.4990



17.0778, 0.2760, 0.3105



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

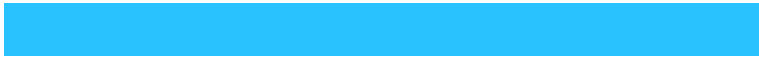


# Same Dimension

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



43.7550, 0.2167, 0.2643



46.3883, 0.2057, 0.2491



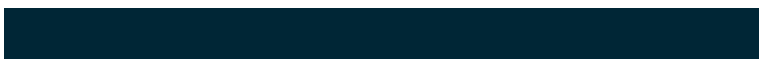
17.6953, 0.1871, 0.1449



16.3581, 0.2981, 0.3222



19.2273, 0.1984, 0.2342



1.6719, 0.2025, 0.2489



# Inverse Universe

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



25.9103, 0.3750, 0.2113



26.7390, 0.3919, 0.2023



59.6239, 0.4325, 0.4574



15.2367, 0.3181, 0.3123



11.4338, 0.4083, 0.2023

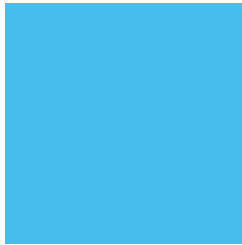


0.9142, 0.3934, 0.1941



# Previews

## White Background



This preview shows how the Yxy color 43.7534, 0.2167, 0.2643 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

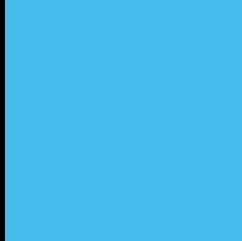
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 43.7534, 0.2167, 0.2643 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

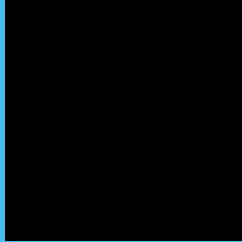
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

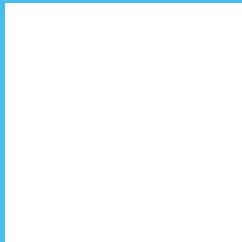
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 43.7534, 0.2167, 0.2643**

## Background



This preview shows how black text looks on a background with the Yxy color 43.7534, 0.2167, 0.2643.



This preview shows how white text looks on a background with the Yxy color 43.7534, 0.2167, 0.2643.

# 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

43.7534, 0.2167, 0.2643

### Protanopia

43.0048, 0.2654, 0.2627

### Deuteranopia

43.2463, 0.2521, 0.2456



## Tritanopia

43.9171, 0.2249, 0.3066

# Trichromacy



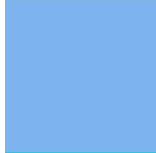
## Original Color

43.7534, 0.2167, 0.2643



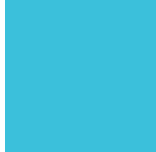
## Protanomaly

42.5645, 0.2425, 0.2625



## Deuteranomaly

42.8322, 0.2351, 0.2508



## Tritanomaly

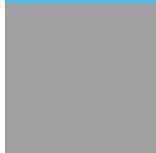
43.7436, 0.2216, 0.2899

# Monochromacy



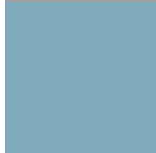
## Original Color

43.7534, 0.2167, 0.2643



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

36.8493, 0.2644, 0.3036

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.7534, 0.2167, 0.2643 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(70, 189, 236)` looks like.

```
.text, #text, p{  
    color:rgb(70, 189, 236)  
}
```

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(70, 189, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 189, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 43.7534, 0.2167, 0.2643 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(70, 189, 236) }
```

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

```
.border{ border-color:rgb(70, 189, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 189, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 189, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 189, 236);  
box-shadow:4px 4px 4px 4px rgb(70, 189,  
236) }
```



# Background

The CSS property to change the background color of an element to Yxy 43.7534, 0.2167, 0.2643 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 189, 236) }
```

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

```
.background{ background-color: rgb(70, 189,  
236) }
```

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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