

# Converting Colors

$Yxy(46.9456, 0.2541, 0.2966)$

Have a look what the booklet for  
Yxy(46.9456, 0.2541, 0.2966)  
contains.

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# Color

**Yxy(46.9932, 0.2540, 0.2965)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	83BFD7
RGB	131, 191, 215
RGB Percent	51%, 75%, 84%
CMY	0.4863, 0.2510, 0.1568
CMYK	0.39, 0.11, 0.00, 0.16
HSL	197°, 51%, 68%
HSV	197°, 39%, 84%
XYZ	40.2572, 46.9932, 71.2426
YIQ	175.7960, -43.4640, -5.2560

# Conversions

## Conversions Part 2

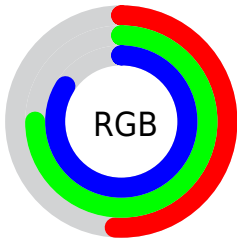
<b>Format</b>	<b>Color</b>
<b>RYB</b>	131, 166, 215
Decimal	8634327
CIELab	74.19, -13.23, -18.14
CIELCh	74, 22.452, 233.883
Yxy	46.9932, 0.2540, 0.2965
Android (android.graphics.Color)	4286824407 (0xFF83BFD7)
YUV	175.7960, 19.3276, -39.2861
Hunter-Lab	68.5516, -15.1403, -13.6314

# Details

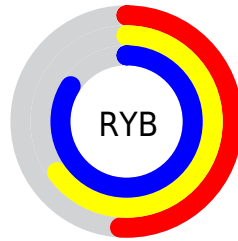
The Yxy color **46.9932, 0.2540, 0.2965** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **39.5324, 0.3980, 0.3588**, and the grayscale version is **43.2202, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.3063, 0.2728, 0.3203**, and **22.2928, 0.2390, 0.2881** is the 20% darker color. If you saturate the color by 10%, you get **42.8287, 0.2406, 0.2866**, and if you desaturate by 10%, it is **51.6300, 0.2684, 0.3058**.

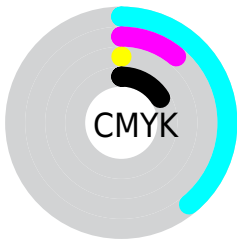
# Distribution



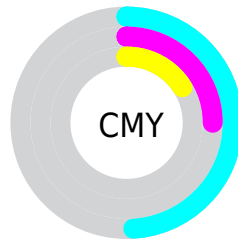
- Red (51%)
- Green (75%)
- Blue (84%)



- Red (51%)
- Yellow (65%)
- Blue (84%)



- Cyan (39%)
- Magenta (11%)
- Yellow (0%)
- Black (16%)



- Cyan (49%)
- Magenta (25%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9932, 0.2540, 0.2965 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 46.9932, 0.2540, 0.2965 by changing the saturation by 10% instead.





 46.9932, 0.2540,  
0.2965


 46.9932, 0.2540,  
0.2965


374.7874, 0.2827,  
0.3131


 33.0303, 0.2471,  
0.2923


 85.7035, 0.2642,  
0.3026

 22.1496, 0.2384,  
0.2868


 111.2196, 0.2681,  
0.3049

 13.9669, 0.2270,  
0.2795


 141.3556, 0.2715,  
0.3068

 8.0976, 0.2118,  
0.2693

176.4959, 0.2743,  
0.3084

 4.1575, 0.1902,  
0.2541

217.0248, 0.2768,  
0.3098

 1.7620, 0.1581,  
0.2294

263.3268, 0.2790,

 0.4634, 0.0451,

0.3111

0.1782

315.7862, 0.2809,  
0.3122

0.0000, 0.0000,  
0.0000

46.9932, 0.2540,  
0.2965

46.9932, 0.2540,  
0.2965

42.8287, 0.2406,  
0.2866

51.6300, 0.2684,  
0.3058

39.1075, 0.2285,  
0.2762

56.7552, 0.2834,  
0.3145

35.8052, 0.2181,  
0.2655

62.3907, 0.2988,  
0.3224

32.8925, 0.2095,  
0.2546

68.5554, 0.3141,  
0.3296

30.3346, 0.2030,  
0.2438

75.2669, 0.3293,  
0.3361

■ 28.0767, 0.1983,  
0.2332

■ 81.5799, 0.3404,  
0.3420

■ 27.8754, 0.1978,  
0.2322

■ 85.0181, 0.3395,  
0.3480

■ 88.5776, 0.3386,  
0.3540

■ 92.2597, 0.3376,  
0.3599

# Harmonies

## Analogous

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



46.9932, 0.2606, 0.3227



46.9932, 0.2540, 0.2965



46.9932, 0.2620, 0.2808

# Triad

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



46.9932, 0.2540, 0.2965



46.9932, 0.3443, 0.3064



46.9932, 0.3409, 0.3850

# Complementary

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



46.9932, 0.2540, 0.2965



39.5324, 0.3980, 0.3588

# 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.



46.9932, 0.3650, 0.3771



46.9932, 0.2540, 0.2965



46.9932, 0.3675, 0.3313

# Square

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



46.9932, 0.2540, 0.2965



46.9932, 0.3131, 0.2873



46.9932, 0.3751, 0.3570



46.9932, 0.3099, 0.3763



# Rectangle

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



46.9932, 0.2540, 0.2965



46.9932, 0.2748, 0.2774



46.9932, 0.3751, 0.3570



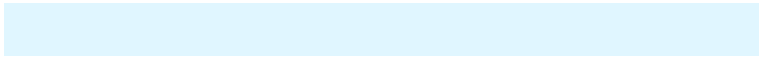
46.9932, 0.3501, 0.3841

# Sweetspot

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



46.9950, 0.2540, 0.2965



89.1986, 0.2941, 0.3201



55.7900, 0.2931, 0.4134



18.8553, 0.2921, 0.3191



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

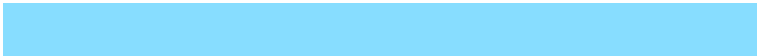


# Same Dimension

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



46.9950, 0.2540, 0.2965



63.9655, 0.2427, 0.2882



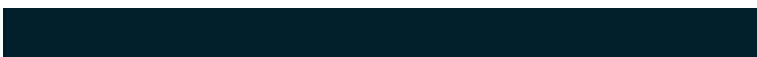
31.2920, 0.2449, 0.2365



13.4802, 0.2982, 0.3222



16.8607, 0.1983, 0.2338



1.1550, 0.2034, 0.2522



# Inverse Universe

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



34.4435, 0.3411, 0.2579



43.8371, 0.3494, 0.2433



55.9315, 0.3785, 0.4068



12.5694, 0.3181, 0.3125



10.0469, 0.4087, 0.2025

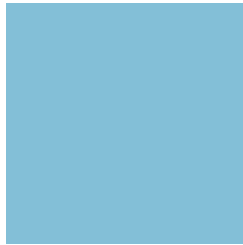


0.6199, 0.3900, 0.1922



# Previews

## White Background



This preview shows how the Yxy color 46.9932, 0.2540, 0.2965 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

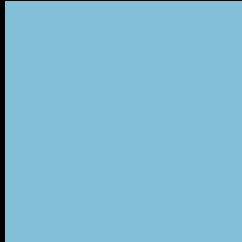
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9932, 0.2540, 0.2965 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 46.9932, 0.2540, 0.2965**

## Background



This preview shows how black text looks on a background with the Yxy color 46.9932, 0.2540, 0.2965.



This preview shows how white text looks on a background with the Yxy color 46.9932, 0.2540, 0.2965.

# 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

46.9932, 0.2540, 0.2965

### Protanopia

46.5437, 0.2890, 0.2934

### Deuteranopia

46.8478, 0.2857, 0.2796



## Tritanopia

46.9205, 0.2570, 0.3069

# Trichromacy



## Original Color

46.9932, 0.2540, 0.2965

## Protanomaly

46.4577, 0.2744, 0.2937

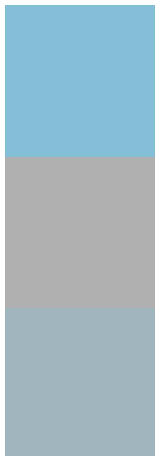
## Deuteranomaly

46.6633, 0.2725, 0.2854

## Tritanomaly

47.1482, 0.2559, 0.3030

# Monochromacy



## Original Color

46.9932, 0.2540, 0.2965

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

44.2390, 0.2886, 0.3167

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9932, 0.2540, 0.2965 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(131, 191, 215)` looks like.

```
.text, #text, p{  
    color:rgb(131, 191, 215)  
}
```

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(131, 191, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 191, 215) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9932, 0.2540, 0.2965 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(131, 191, 215) }
```

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

```
.border{ border-color:rgb(131, 191, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 191, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(131, 191, 215); -webkit-box-shadow:4px 4px 4px 4px rgb(131, 191, 215); box-shadow:4px 4px 4px 4px rgb(131, 191, 215) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9932, 0.2540, 0.2965 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 191, 215) }
```

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

```
.background{ background-color: rgb(131,  
191, 215) }
```

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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