

# Converting Colors

$Y_{xy}(47.9262, 0.2331, 0.2495)$

Have a look what the booklet for  
Yxy(47.9262, 0.2331, 0.2495)  
contains.

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# Color

**Yxy(48.0906, 0.2335, 0.2506)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81BDFC
RGB	129, 189, 252
RGB Percent	51%, 74%, 99%
CMY	0.4945, 0.2587, 0.0118
CMYK	0.49, 0.25, 0.00, 0.01
HSL	211°, 95%, 75%
HSV	211°, 49%, 99%
XYZ	44.8091, 48.0906, 99.0022
YIQ	178.2420, -55.9830, 6.8730

# Conversions

## Conversions Part 2

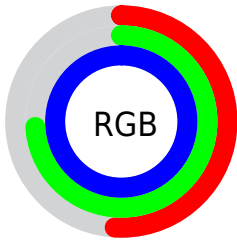
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 169, 252
Decimal	8502780
CIE <sub>Lab</sub>	74.88, -2.59, -37.06
CIE <sub>LCh</sub>	75, 37.154, 266.007
Yxy	48.0906, 0.2335, 0.2506
Android (android.graphics.Color)	4286692860 (0xFF81BDFC)
<b>YUV</b>	178.2420, 36.3627, -43.1852
Hunter-Lab	69.3474, -6.0195, -36.1008

# Details

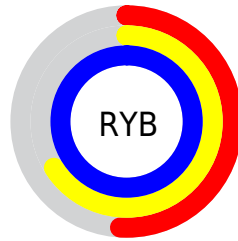
The Yxy color **48.0906, 0.2335, 0.2506** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **59.9201, 0.4144, 0.3947**, and the grayscale version is **44.4731, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0896, 0.2726, 0.3181**, and **22.8137, 0.2136, 0.2308** is the 20% darker color. If you saturate the color by 10%, you get **41.0553, 0.2182, 0.2309**, and if you desaturate by 10%, it is **56.1088, 0.2497, 0.2694**.

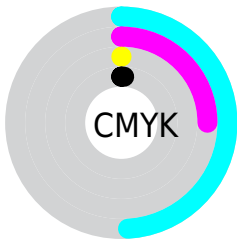
# Distribution



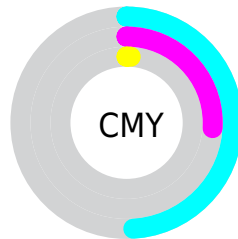
- Red (51%)
- Green (74%)
- Blue (99%)



- Red (51%)
- Yellow (66%)
- Blue (99%)



- Cyan (49%)
- Magenta (25%)
- Yellow (0%)
- Black (1%)



- Cyan (49%)
- Magenta (26%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.0906, 0.2335, 0.2506 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 48.0906, 0.2335, 0.2506 by changing the saturation by 10% instead.



■ 48.0906, 0.2335,  
0.2506

■ 48.0906, 0.2335,  
0.2506

379.1511, 0.2715,  
0.2885

■ 33.8986, 0.2246,  
0.2417

■ 87.3393, 0.2469,  
0.2640

■ 22.8157, 0.2136,  
0.2306

■ 113.1648, 0.2520,  
0.2691

■ 14.4575, 0.1997,  
0.2164

■ 143.6369, 0.2564,  
0.2735

■ 8.4396, 0.1816,  
0.1980

179.1401, 0.2603,  
0.2773

■ 4.3775, 0.1574,  
0.1731

220.0588, 0.2636,  
0.2807

■ 1.8869, 0.1243,  
0.1387

266.7772, 0.2665,

■ 0.5405, 0.0715,

0.2836

0.0858

319.6799, 0.2692,  
0.2862

0.0000, 0.0000,  
0.0000

48.0906, 0.2335,  
0.2506

48.0906, 0.2335,  
0.2506

41.0553, 0.2182,  
0.2309

56.1088, 0.2497,  
0.2694

34.9484, 0.2043,  
0.2107

65.1496, 0.2663,  
0.2869

29.7167, 0.1924,  
0.1905

75.2566, 0.2829,  
0.3029

25.2972, 0.1830,  
0.1710

86.4687, 0.2990,  
0.3174

21.6035, 0.1759,  
0.1528

98.8229, 0.3145,  
0.3304

■ 21.2106, 0.1752,  
0.1507

99.8073, 0.3145,  
0.3319

# Harmonies

## Analogous

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



48.0906, 0.2198, 0.2723



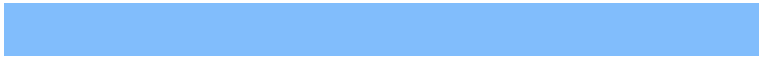
48.0906, 0.2335, 0.2506



48.0906, 0.2673, 0.2489

# Triad

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



48.0906, 0.2335, 0.2506



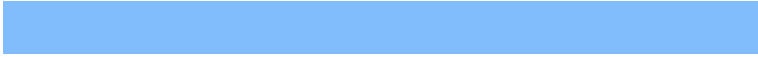
48.0906, 0.4052, 0.3335



48.0906, 0.3029, 0.4075

# Complementary

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



48.0906, 0.2335, 0.2506



59.9201, 0.4144, 0.3947

# 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.



48.0906, 0.3535, 0.4224



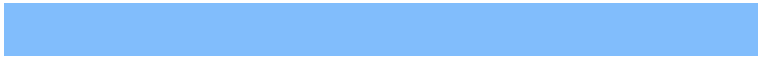
48.0906, 0.2335, 0.2506



48.0906, 0.4150, 0.3739

# Square

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



48.0906, 0.2335, 0.2506



48.0906, 0.3677, 0.2950



48.0906, 0.3950, 0.4075

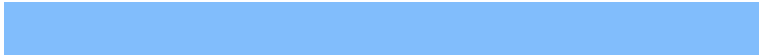


48.0906, 0.2573, 0.3648



# Rectangle

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



48.0906, 0.2335, 0.2506



48.0906, 0.2987, 0.2578



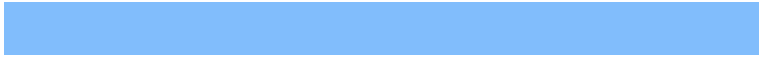
48.0906, 0.3950, 0.4075



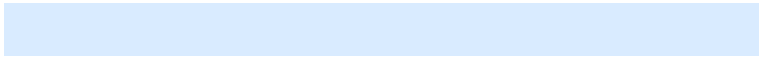
48.0906, 0.3199, 0.4161

# Sweetspot

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



48.0924, 0.2335, 0.2506



81.5975, 0.2891, 0.3087



78.0087, 0.2764, 0.4054



16.9567, 0.2857, 0.3055



0.0000, 0.0000, 0.0000

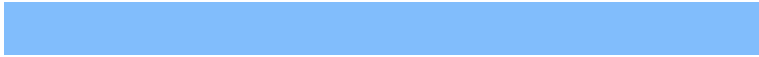


21.4041, 0.3127, 0.3290

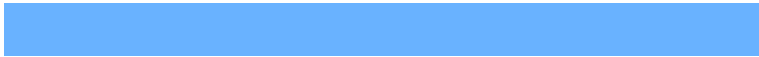


# Same Dimension

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



48.0924, 0.2335, 0.2506



42.0490, 0.2179, 0.2305



27.3655, 0.2189, 0.1739



18.0427, 0.2980, 0.3165



11.3435, 0.1760, 0.1537



1.2621, 0.1821, 0.1756



# Inverse Universe

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



40.0454, 0.3809, 0.2668



34.4873, 0.4030, 0.2560



91.8861, 0.3847, 0.4480



17.3665, 0.3217, 0.3175



11.5560, 0.5012, 0.2534



1.0916, 0.4739, 0.2384



# Previews

## White Background



This preview shows how the Yxy color 48.0906, 0.2335, 0.2506 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

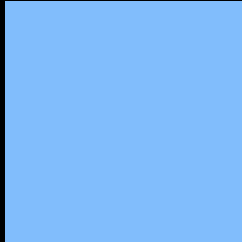
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.0906, 0.2335, 0.2506 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

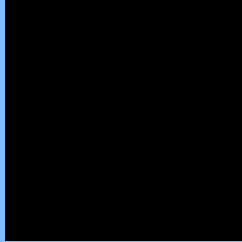
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

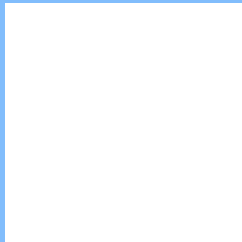
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.0906, 0.2335, 0.2506**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.0906, 0.2335, 0.2506.



This preview shows how white text looks on a background with the Yxy color 48.0906, 0.2335, 0.2506.

# 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

48.0906, 0.2335, 0.2506

### Protanopia

47.7009, 0.2559, 0.2508

### Deuteranopia

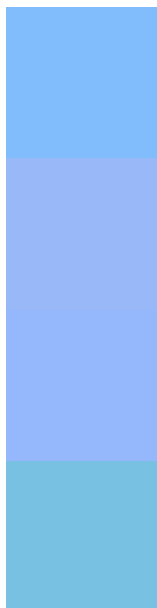
47.7806, 0.2489, 0.2422



## Tritanopia

47.9463, 0.2485, 0.3068

# Trichromacy



## Original Color

48.0906, 0.2335, 0.2506

## Protanomaly

47.7337, 0.2471, 0.2508

## Deuteranomaly

47.7624, 0.2428, 0.2453

## Tritanomaly

47.7509, 0.2425, 0.2837

# Monochromacy



## Original Color

48.0906, 0.2335, 0.2506

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

45.3373, 0.2782, 0.2985

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.0906, 0.2335, 0.2506 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(129, 189, 252)` looks like.

```
.text, #text, p{  
    color:rgb(129, 189, 252)  
}
```

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(129, 189, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 189, 252) }
```

## Border

The CSS property to change the border of an element to Yxy 48.0906, 0.2335, 0.2506 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(129, 189, 252) }
```

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

```
.border{ border-color:rgb(129, 189, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 189, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 189, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 189, 252);  
box-shadow:4px 4px 4px 4px rgb(129, 189,  
252) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.0906, 0.2335, 0.2506 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 189, 252) }
```

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

```
.background{ background-color: rgb(129,  
189, 252) }
```

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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