

# Converting Colors

$Y_{xy}(46.5204, 0.2372, 0.2604)$

Have a look what the booklet for  
Yxy(46.5204, 0.2372, 0.2604)  
contains.

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# Color

**Yxy(46.4035, 0.2372, 0.2596)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7FBBF1
RGB	127, 187, 241
RGB Percent	50%, 73%, 95%
CMY	0.5020, 0.2667, 0.0549
CMYK	0.47, 0.22, 0.00, 0.05
HSL	208°, 80%, 72%
HSV	208°, 47%, 95%
XYZ	42.3995, 46.4035, 89.9470
YIQ	175.2160, -53.0940, 4.0740

# Conversions

## Conversions Part 2

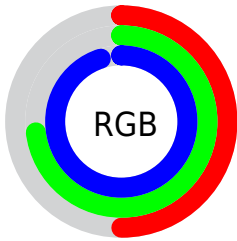
Format	Color
R <sub>Y</sub> B	127, 166, 241
Decimal	8371185
CIE Lab	73.81, -5.06, -32.82
CIE LCh	74, 33.208, 261.243
Yxy	46.4035, 0.2372, 0.2596
Android (android.graphics.Color)	4286561265 (0xFF7FBBF1)
YUV	175.2160, 32.4315, -42.2854
Hunter-Lab	68.1201, -8.1078, -30.6035

# Details

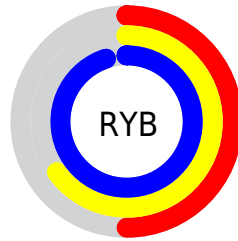
The Yxy color **46.4035, 0.2372, 0.2596** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **53.2815, 0.4125, 0.3881**, and the grayscale version is **42.8371, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.5115, 0.2708, 0.3159**, and **21.8182, 0.2178, 0.2408** is the 20% darker color. If you saturate the color by 10%, you get **40.1180, 0.2223, 0.2416**, and if you desaturate by 10%, it is **53.5200, 0.2530, 0.2767**.

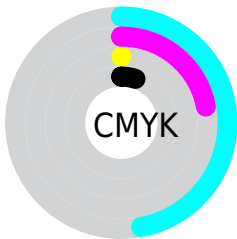
# Distribution



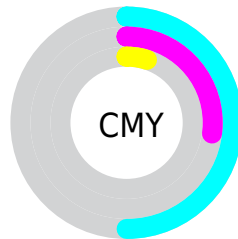
- Red (50%)
- Green (73%)
- Blue (95%)



- Red (50%)
- Yellow (65%)
- Blue (95%)



- Cyan (47%)
- Magenta (22%)
- Yellow (0%)
- Black (5%)



- Cyan (50%)
- Magenta (27%)
- Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.4035, 0.2372, 0.2596 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 46.4035, 0.2372, 0.2596 by changing the saturation by 10% instead.



■ 46.4035, 0.2372,  
0.2596

■ 46.4035, 0.2372,  
0.2596

372.4285, 0.2737,  
0.2937

■ 32.5643, 0.2286,  
0.2514

■ 84.8225, 0.2501,  
0.2718

■ 21.7929, 0.2178,  
0.2411

■ 110.1712, 0.2551,  
0.2764

■ 13.7048, 0.2040,  
0.2278

■ 140.1252, 0.2593,  
0.2804

■ 7.9157, 0.1859,  
0.2101

175.0689, 0.2630,  
0.2838

■ 4.0410, 0.1613,  
0.1857

215.3867, 0.2662,  
0.2868

■ 1.6965, 0.1270,  
0.1507

261.4629, 0.2690,

■ 0.4214, 0.0579,

0.2894

0.0880

313.6821, 0.2715,  
0.2917

0.0000, 0.0000,  
0.0000

46.4035, 0.2372,  
0.2596

46.4035, 0.2372,  
0.2596

40.1180, 0.2223,  
0.2416

53.5200, 0.2530,  
0.2767

34.6175, 0.2087,  
0.2230

61.4999, 0.2693,  
0.2925

29.8579, 0.1970,  
0.2043

70.3796, 0.2855,  
0.3071

25.7869, 0.1876,  
0.1860

80.1918, 0.3014,  
0.3203

22.3387, 0.1806,  
0.1685

90.9671, 0.3168,  
0.3320

■ 21.4918, 0.1789,  
0.1640

■ 99.1314, 0.3209,  
0.3425

# Harmonies

## Analogous

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



46.4035, 0.2277, 0.2827



46.4035, 0.2372, 0.2596



46.4035, 0.2656, 0.2549

# Triad

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



46.4035, 0.2372, 0.2596



46.4035, 0.3923, 0.3277



46.4035, 0.3115, 0.4034

# Complementary

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



46.4035, 0.2372, 0.2596



53.2815, 0.4125, 0.3881

# 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.



46.4035, 0.3569, 0.4128



46.4035, 0.2372, 0.2596



46.4035, 0.4057, 0.3649

# Square

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



46.4035, 0.2372, 0.2596



46.4035, 0.3556, 0.2931



46.4035, 0.3920, 0.3967



46.4035, 0.2684, 0.3684



# Rectangle

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



46.4035, 0.2372, 0.2596



46.4035, 0.2930, 0.2614



46.4035, 0.3920, 0.3967



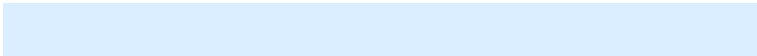
46.4035, 0.3270, 0.4097

# Sweetspot

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



46.4052, 0.2372, 0.2596



83.5283, 0.2908, 0.3116



70.7307, 0.2792, 0.4075



17.3759, 0.2873, 0.3086



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.



46.4052, 0.2372, 0.2596



45.6949, 0.2224, 0.2419



27.0403, 0.2234, 0.1846



16.6058, 0.2980, 0.3175



11.9261, 0.1797, 0.1667



1.1913, 0.1860, 0.1896



# Inverse Universe

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



37.4674, 0.3727, 0.2643



35.8882, 0.3917, 0.2526



80.9233, 0.3842, 0.4413



15.8979, 0.3211, 0.3166



10.9973, 0.4847, 0.2444

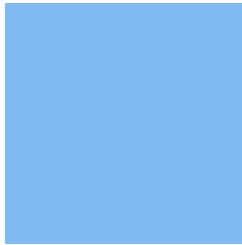


0.9350, 0.4572, 0.2292



# Previews

## White Background



This preview shows how the Yxy color 46.4035, 0.2372, 0.2596 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

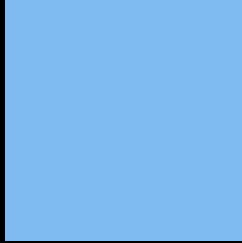
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.4035, 0.2372, 0.2596 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

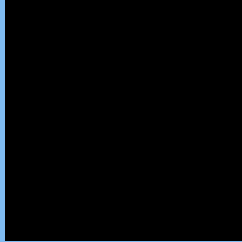
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

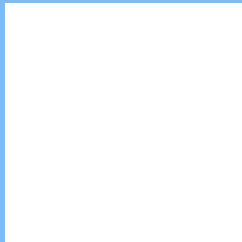
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.4035, 0.2372, 0.2596**

## Background



This preview shows how black text looks on a background with the Yxy color 46.4035, 0.2372, 0.2596.



This preview shows how white text looks on a background with the Yxy color 46.4035, 0.2372, 0.2596.

# 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

46.4035, 0.2372, 0.2596

### Protanopia

46.3453, 0.2628, 0.2600

### Deuteranopia

46.0984, 0.2558, 0.2498



## **Tritanopia**

46.4759, 0.2504, 0.3079

# Trichromacy



## Original Color

46.4035, 0.2372, 0.2596

## Protanomaly

46.2457, 0.2528, 0.2600

## Deuteranomaly

45.9426, 0.2486, 0.2530

## Tritanomaly

46.4939, 0.2456, 0.2896

# Monochromacy



## Original Color

46.4035, 0.2372, 0.2596

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

43.6328, 0.2805, 0.3020

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.4035, 0.2372, 0.2596 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(127, 187, 241)` looks like.

```
.text, #text, p{  
    color:rgb(127, 187, 241)  
}
```

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(127, 187, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 187, 241) }
```

## Border

The CSS property to change the border of an element to Yxy 46.4035, 0.2372, 0.2596 is called "border". The border property can be set on classes, ids or directly on the HTML element.

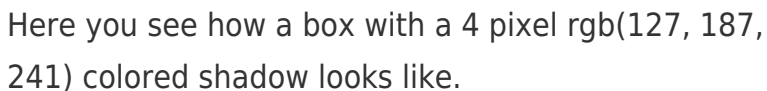
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(127, 187, 241) }
```

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

```
.border{ border-color:rgb(127, 187, 241) }
```

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



Here you see how a box with a 4 pixel `rgb(127, 187, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 187, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 187, 241);  
box-shadow:4px 4px 4px 4px rgb(127, 187,  
241) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.4035, 0.2372, 0.2596 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 187, 241) }
```

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

```
.background{ background-color: rgb(127,  
187, 241) }
```

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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