

# Converting Colors

$Yxy(46.0813, 0.2417, 0.2583)$

Have a look what the booklet for  
Yxy(46.0813, 0.2417, 0.2583)  
contains.

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# Color

**Yxy(46.1401, 0.2416, 0.2588)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87B9F0
RGB	135, 185, 240
RGB Percent	53%, 73%, 94%
CMY	0.4704, 0.2745, 0.0588
CMYK	0.44, 0.23, 0.00, 0.06
HSL	211°, 78%, 74%
HSV	211°, 44%, 94%
XYZ	43.0736, 46.1401, 89.0711
YIQ	176.3200, -47.4550, 6.5050

# Conversions

## Conversions Part 2

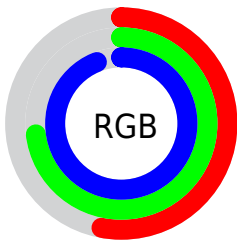
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	135, 169, 240
Decimal	8894960
CIE Lab	73.64, -2.31, -32.50
CIE LCh	74, 32.585, 265.939
Yxy	46.1401, 0.2416, 0.2588
Android (android.graphics.Color)	4287085040 (0xFF87B9F0)
YUV	176.3200, 31.3942, -36.2376
Hunter-Lab	67.9265, -5.6808, -30.1976

# Details

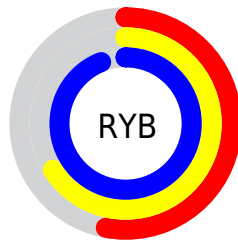
The Yxy color **46.1401, 0.2416, 0.2588** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **57.1244, 0.4003, 0.3893**, and the grayscale version is **43.4489, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.3371, 0.2749, 0.3139**, and **21.6255, 0.2231, 0.2397** is the 20% darker color. If you saturate the color by 10%, you get **39.3378, 0.2256, 0.2391**, and if you desaturate by 10%, it is **53.8602, 0.2582, 0.2774**.

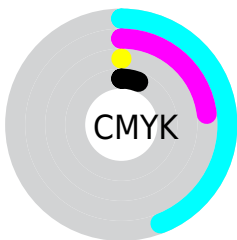
# Distribution



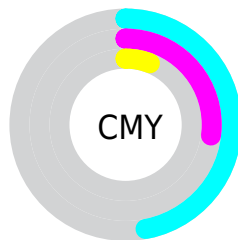
- Red (53%)
- Green (73%)
- Blue (94%)



- Red (53%)
- Yellow (66%)
- Blue (94%)



- Cyan (44%)
- Magenta (23%)
- Yellow (0%)
- Black (6%)



- Cyan (47%)
- Magenta (27%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.1401, 0.2416, 0.2588 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 46.1401, 0.2416, 0.2588 by changing the saturation by 10% instead.



■ 46.1401, 0.2416,  
0.2588

■ 46.1401, 0.2416,  
0.2588

■ 371.3716, 0.2762,  
0.2932

■ 32.3564, 0.2334,  
0.2506

■ 84.4286, 0.2539,  
0.2711

■ 21.6339, 0.2231,  
0.2402

■ 109.7022, 0.2586,  
0.2757

■ 13.5881, 0.2099,  
0.2269

■ 139.5746, 0.2626,  
0.2797

■ 7.8348, 0.1925,  
0.2092

■ 174.4301, 0.2660,  
0.2832

■ 3.9894, 0.1686,  
0.1848

■ 214.6532, 0.2691,  
0.2861

■ 1.6676, 0.1349,  
0.1500

■ 260.6282, 0.2717,

■ 0.4026, 0.0693,

0.2888

0.0855

312.7395, 0.2741,  
0.2911

0.0000, 0.0000,  
0.0000

46.1401, 0.2416,  
0.2588

46.1401, 0.2416,  
0.2588

39.3378, 0.2256,  
0.2391

53.8602, 0.2582,  
0.2774

33.4055, 0.2108,  
0.2186

62.5320, 0.2748,  
0.2945

28.2982, 0.1976,  
0.1979

72.1939, 0.2912,  
0.3101

23.9631, 0.1867,  
0.1777

82.8804, 0.3070,  
0.3242

20.3380, 0.1783,  
0.1584

94.6151, 0.3220,  
0.3367

■ 18.3750, 0.1742,  
0.1470

■ 99.0711, 0.3214,  
0.3434

# Harmonies

## Analogous

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



46.1401, 0.2292, 0.2788



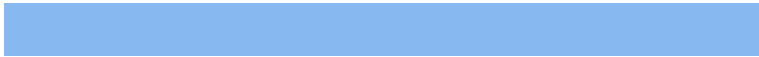
46.1401, 0.2416, 0.2588



46.1401, 0.2722, 0.2569

# Triad

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



46.1401, 0.2416, 0.2588



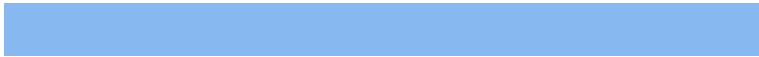
46.1401, 0.3948, 0.3336



46.1401, 0.3045, 0.3981

# Complementary

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



46.1401, 0.2416, 0.2588



57.1244, 0.4003, 0.3893

# 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.



46.1401, 0.3496, 0.4118



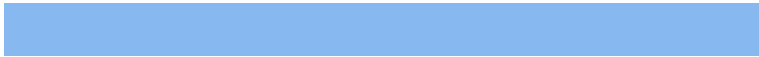
46.1401, 0.2416, 0.2588



46.1401, 0.4037, 0.3699

# Square

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



46.1401, 0.2416, 0.2588



46.1401, 0.3616, 0.2986



46.1401, 0.3865, 0.3994



46.1401, 0.2635, 0.3609



# Rectangle

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



46.1401, 0.2416, 0.2588



46.1401, 0.3004, 0.2649



46.1401, 0.3865, 0.3994



46.1401, 0.3197, 0.4057

# Sweetspot

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



46.1418, 0.2416, 0.2588



83.6577, 0.2923, 0.3112



71.1596, 0.2784, 0.3933



17.3554, 0.2887, 0.3079



0.0000, 0.0000, 0.0000

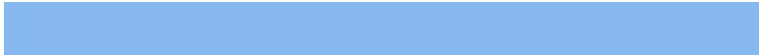


21.4041, 0.3127, 0.3290

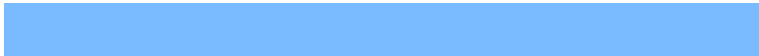


# Same Dimension

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



46.1418, 0.2416, 0.2588



46.2969, 0.2281, 0.2422



28.9338, 0.2315, 0.1931



16.4697, 0.2980, 0.3163



10.3216, 0.1750, 0.1499



1.0566, 0.1818, 0.1744



# Inverse Universe

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



39.3688, 0.3721, 0.2745



38.8017, 0.3894, 0.2648



82.2896, 0.3765, 0.4371



15.8841, 0.3219, 0.3178



10.8353, 0.5060, 0.2561

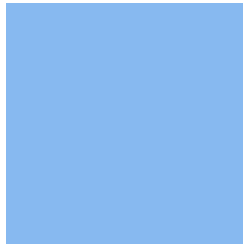


0.9214, 0.4753, 0.2392



# Previews

## White Background



This preview shows how the Yxy color 46.1401, 0.2416, 0.2588 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

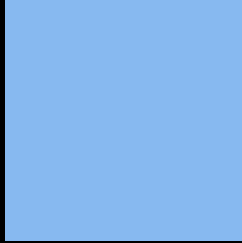
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.1401, 0.2416, 0.2588 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

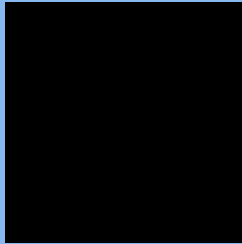
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

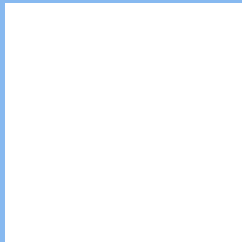
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.1401, 0.2416, 0.2588**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.1401, 0.2416, 0.2588.



This preview shows how white text looks on a background with the Yxy color 46.1401, 0.2416, 0.2588.

# 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

46.1401, 0.2416, 0.2588

### Protanopia

45.8383, 0.2619, 0.2586

### Deuteranopia

46.1441, 0.2571, 0.2510



## Tritanopia

46.1535, 0.2562, 0.3081

# Trichromacy



## Original Color

46.1401, 0.2416, 0.2588

## Protanomaly

46.0322, 0.2539, 0.2589

## Deuteranomaly

46.1709, 0.2510, 0.2545

## Tritanomaly

46.1243, 0.2507, 0.2898

# Monochromacy



## Original Color

46.1401, 0.2416, 0.2588

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

43.9408, 0.2828, 0.3022

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.1401, 0.2416, 0.2588 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(135, 185, 240)` looks like.

```
.text, #text, p{  
    color:rgb(135, 185, 240)  
}
```

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(135, 185, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 185, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 46.1401, 0.2416, 0.2588 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(135, 185, 240) }
```

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

```
.border{ border-color:rgb(135, 185, 240) }
```

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

Here you see how a box with a 4 pixel rgb(135, 185, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 185, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 185, 240);  
box-shadow:4px 4px 4px 4px rgb(135, 185,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.1401, 0.2416, 0.2588 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 185, 240) }
```

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

```
.background{ background-color: rgb(135,  
185, 240) }
```

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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