

# Converting Colors

$Y_{xy}(46.1372, 0.2259, 0.2423)$

Have a look what the booklet for  
Yxy(46.1372, 0.2259, 0.2423)  
contains.

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# Color

**Yxy(46.1894, 0.2261, 0.2424)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76BAFF
RGB	118, 186, 255
RGB Percent	46%, 73%, 100%
CMY	0.5372, 0.2706, 0.0000
CMYK	0.54, 0.27, 0.00, 0.00
HSL	210°, 100%, 73%
HSV	210°, 54%, 100%
XYZ	43.0834, 46.1894, 101.2775
YIQ	173.5340, -62.6770, 7.0430

# Conversions

## Conversions Part 2

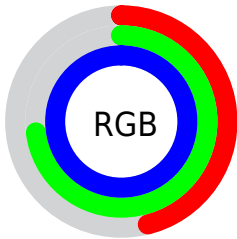
Format	Color
R <sub>Y</sub> B	118, 163, 255
Decimal	7781119
CIE Lab	73.67, -2.42, -40.63
CIE LCh	74, 40.702, 266.597
Yxy	46.1894, 0.2261, 0.2424
Android (android.graphics.Color)	4285971199 (0xFF76BAFF)
YUV	173.5340, 40.1627, -48.7033
Hunter-Lab	67.9628, -5.7789, -40.7795

# Details

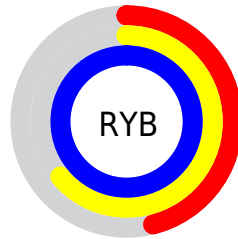
The Yxy color **46.1894, 0.2261, 0.2424** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **58.1096, 0.4282, 0.3995**, and the grayscale version is **41.8904, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.0714, 0.2669, 0.3146**, and **21.6365, 0.2045, 0.2201** is the 20% darker color. If you saturate the color by 10%, you get **39.4681, 0.2115, 0.2227**, and if you desaturate by 10%, it is **53.8789, 0.2419, 0.2614**.

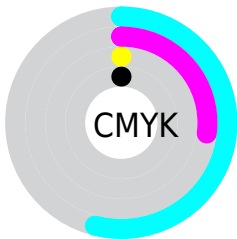
# Distribution



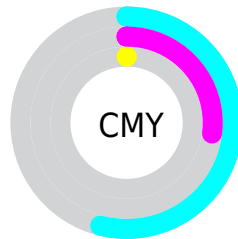
- Red (46%)
- Green (73%)
- Blue (100%)



- Red (46%)
- Yellow (64%)
- Blue (100%)



- Cyan (54%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)



- Cyan (54%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.1894, 0.2261, 0.2424 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 46.1894, 0.2261, 0.2424 by changing the saturation by 10% instead.



46.1894, 0.2261,  
0.2424

46.1894, 0.2261,  
0.2424

371.5696, 0.2677,  
0.2843

32.3953, 0.2164,  
0.2326

84.5024, 0.2407,  
0.2572

21.6636, 0.2045,  
0.2204

109.7901, 0.2464,  
0.2629

13.6099, 0.1894,  
0.2049

139.6777, 0.2512,  
0.2677

7.8499, 0.1698,  
0.1849

174.5498, 0.2554,  
0.2719

3.9990, 0.1441,  
0.1582

214.7906, 0.2590,  
0.2756

1.6730, 0.1096,  
0.1221

260.7845, 0.2623,

0.4061, 0.0513,

0.2789

0.0638

312.9161, 0.2651,  
0.2817

0.0000, 0.0000,  
0.0000

46.1894, 0.2261,  
0.2424

46.1894, 0.2261,  
0.2424

39.4681, 0.2115,  
0.2227

53.8789, 0.2419,  
0.2614

33.6634, 0.1987,  
0.2028

62.5852, 0.2583,  
0.2793

28.7154, 0.1881,  
0.1831

72.3520, 0.2748,  
0.2958

24.5538, 0.1799,  
0.1644

83.2202, 0.2912,  
0.3108

22.2870, 0.1759,  
0.1532

95.2282, 0.3070,  
0.3243

100.0000, 0.3127,  
0.3290

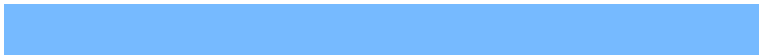
# Harmonies

## Analogous

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



46.1894, 0.2107, 0.2652



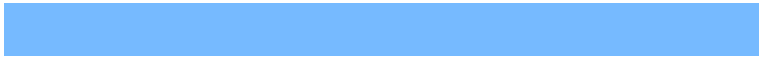
46.1894, 0.2261, 0.2424



46.1894, 0.2633, 0.2413

# Triad

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



46.1894, 0.2261, 0.2424



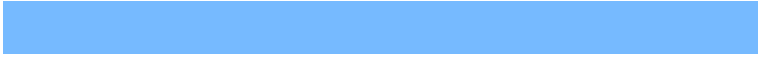
46.1894, 0.4161, 0.3342



46.1894, 0.3003, 0.4163

# Complementary

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



46.1894, 0.2261, 0.2424



58.1096, 0.4282, 0.3995

# 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.



46.1894, 0.3561, 0.4331



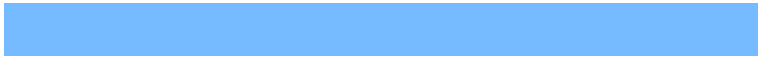
46.1894, 0.2261, 0.2424



46.1894, 0.4259, 0.3784

# Square

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



46.1894, 0.2261, 0.2424



46.1894, 0.3747, 0.2921



46.1894, 0.4027, 0.4159

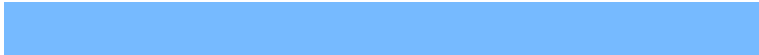


46.1894, 0.2504, 0.3677



# Rectangle

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



46.1894, 0.2261, 0.2424



46.1894, 0.2980, 0.2513



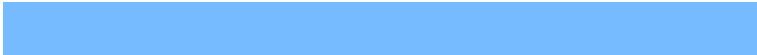
46.1894, 0.4027, 0.4159



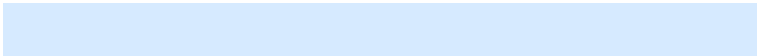
46.1894, 0.3190, 0.4261

# Sweetspot

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



46.1891, 0.2261, 0.2424



80.6488, 0.2875, 0.3075



78.9381, 0.2740, 0.4148



16.7750, 0.2841, 0.3045



0.0000, 0.0000, 0.0000

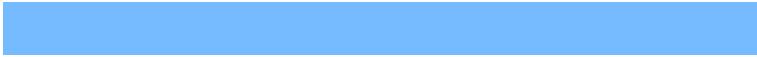


21.4041, 0.3127, 0.3290



# Same Dimension

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



46.1891, 0.2261, 0.2424



39.2965, 0.2112, 0.2222



24.0288, 0.2083, 0.1564



18.8671, 0.2979, 0.3167



11.9435, 0.1767, 0.1561



1.3811, 0.1825, 0.1768



# Inverse Universe

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



37.7623, 0.3899, 0.2602



31.8892, 0.4130, 0.2505



94.0880, 0.3907, 0.4580



18.1374, 0.3216, 0.3173



11.9337, 0.4980, 0.2517

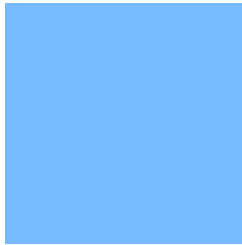


1.1840, 0.4724, 0.2376



# Previews

## White Background



This preview shows how the Yxy color 46.1894, 0.2261, 0.2424 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

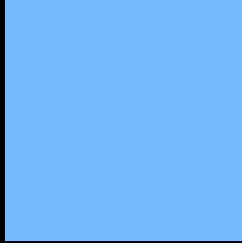
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.1894, 0.2261, 0.2424 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

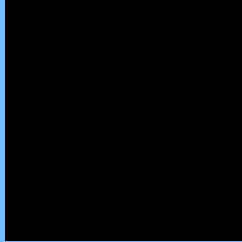
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

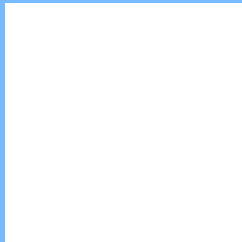
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.1894, 0.2261, 0.2424**

## Background



This preview shows how black text looks on a background with the Yxy color 46.1894, 0.2261, 0.2424.



This preview shows how white text looks on a background with the Yxy color 46.1894, 0.2261, 0.2424.

# 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

46.1894, 0.2261, 0.2424

### Protanopia

45.9890, 0.2504, 0.2442

### Deuteranopia

45.7362, 0.2423, 0.2362



## Tritanopia

46.0615, 0.2420, 0.3062

# Trichromacy



## Original Color

46.1894, 0.2261, 0.2424

## Protanomaly

45.9421, 0.2403, 0.2429

## Deuteranomaly

45.8432, 0.2360, 0.2384

## Tritanomaly

45.9407, 0.2361, 0.2814

# Monochromacy



## Original Color

46.1894, 0.2261, 0.2424

## Achromatopsia

42.3268, 0.3127, 0.3290

## Achromatomaly

43.0226, 0.2746, 0.2952

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.1894, 0.2261, 0.2424 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(118, 186, 255)` looks like.

```
.text, #text, p{  
    color:rgb(118, 186, 255)  
}
```

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(118, 186, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 186, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.1894, 0.2261, 0.2424 is called "border". The border property can be set on classes, ids or directly on the HTML element.

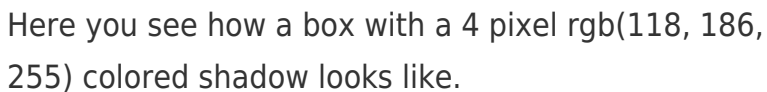
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(118, 186, 255) }
```

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

```
.border{ border-color:rgb(118, 186, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(118, 186, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(118, 186, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(118, 186, 255); box-shadow:4px 4px 4px 4px rgb(118, 186, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.1894, 0.2261, 0.2424 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 186, 255) }
```

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

```
.background{ background-color: rgb(118,  
186, 255) }
```

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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