

# Converting Colors

$Yxy(48.7644, 0.2169, 0.2077)$

Have a look what the booklet for  
Yxy(48.7644, 0.2169, 0.2077)  
contains.

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# Color

**Yxy(46.3263, 0.2319, 0.2412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83B8FF
RGB	131, 184, 255
RGB Percent	51%, 72%, 100%
CMY	0.4866, 0.2784, 0.0000
CMYK	0.49, 0.28, 0.00, 0.00
HSL	214°, 100%, 76%
HSV	214°, 49%, 100%
XYZ	44.5401, 46.3263, 101.1995
YIQ	176.2470, -54.3790, 10.8450

# Conversions

## Conversions Part 2

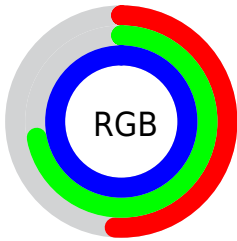
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	131, 168, 255
Decimal	8632575
CIE <sub>Lab</sub>	73.76, 1.48, -40.43
CIE <sub>LCh</sub>	74, 40.455, 272.101
Yxy	46.3263, 0.2319, 0.2412
Android (android.graphics.Color)	4286822655 (0xFF83B8FF)
YUV	176.2470, 38.8252, -39.6816
Hunter-Lab	68.0634, -2.3022, -40.5104

# Details

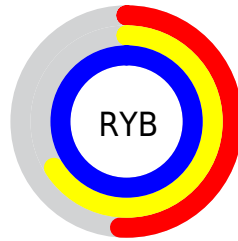
The Yxy color **46.3263, 0.2319, 0.2412** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **65.0882, 0.4100, 0.4017**, and the grayscale version is **43.3589, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.3590, 0.2732, 0.3127**, and **21.6875, 0.2116, 0.2187** is the 20% darker color. If you saturate the color by 10%, you get **38.7860, 0.2157, 0.2191**, and if you desaturate by 10%, it is **54.9957, 0.2489, 0.2623**.

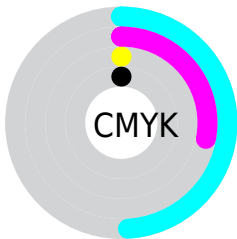
# Distribution



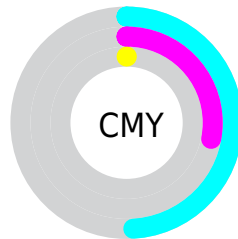
- Red (51%)
- Green (72%)
- Blue (100%)



- Red (51%)
- Yellow (66%)
- Blue (100%)



- Cyan (49%)
- Magenta (28%)
- Yellow (0%)
- Black (0%)



- Cyan (49%)
- Magenta (28%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.3263, 0.2319, 0.2412 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 46.3263, 0.2319, 0.2412 by changing the saturation by 10% instead.



■ 46.3263, 0.2319,  
0.2412

■ 46.3263, 0.2319,  
0.2412

372.1189, 0.2709,  
0.2834

■ 32.5034, 0.2228,  
0.2314

■ 84.7071, 0.2456,  
0.2560

■ 21.7463, 0.2115,  
0.2192

■ 110.0338, 0.2509,  
0.2617

■ 13.6706, 0.1971,  
0.2038

■ 139.9639, 0.2555,  
0.2666

■ 7.8919, 0.1784,  
0.1839

174.8818, 0.2594,  
0.2709

■ 4.0259, 0.1536,  
0.1575

215.1718, 0.2628,  
0.2746

■ 1.6880, 0.1199,  
0.1218

261.2184, 0.2658,

■ 0.4159, 0.0667,

0.2779

0.0643

313.4060, 0.2685,  
0.2808

0.0000, 0.0000,  
0.0000

46.3263, 0.2319,  
0.2412

46.3263, 0.2319,  
0.2412

38.7860, 0.2157,  
0.2191

54.9957, 0.2489,  
0.2623

32.3135, 0.2009,  
0.1965

64.8409, 0.2660,  
0.2820

26.8481, 0.1882,  
0.1742

75.9114, 0.2830,  
0.3001

22.3182, 0.1781,  
0.1530

88.2525, 0.2993,  
0.3163

18.6298, 0.1707,  
0.1337

99.9999, 0.3127,  
0.3290

■ 18.1851, 0.1698,  
0.1312

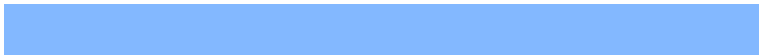
# Harmonies

## Analogous

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



46.3263, 0.2124, 0.2598



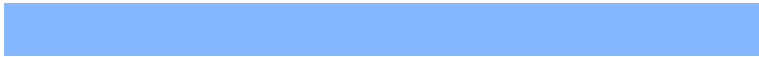
46.3263, 0.2319, 0.2412



46.3263, 0.2725, 0.2438

# Triad

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



46.3263, 0.2319, 0.2412



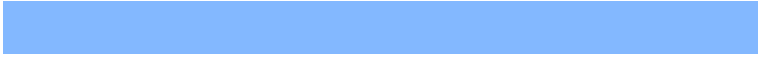
46.3263, 0.4197, 0.3423



46.3263, 0.2904, 0.4087

# Complementary

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



46.3263, 0.2319, 0.2412



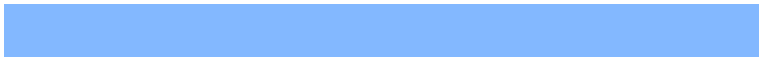
65.0882, 0.4100, 0.4017

# 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.



46.3263, 0.3459, 0.4321



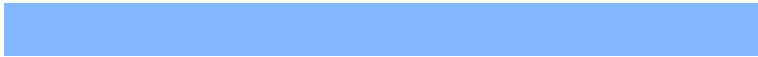
46.3263, 0.2319, 0.2412



46.3263, 0.4232, 0.3858

# Square

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



46.3263, 0.2319, 0.2412



46.3263, 0.3836, 0.2995



46.3263, 0.3950, 0.4204

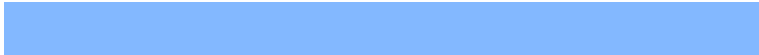


46.3263, 0.2435, 0.3568



# Rectangle

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



46.3263, 0.2319, 0.2412



46.3263, 0.3085, 0.2559



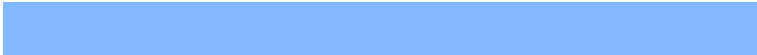
46.3263, 0.3950, 0.4204



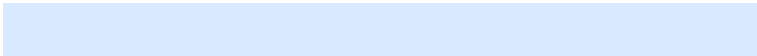
46.3263, 0.3087, 0.4205

# Sweetspot

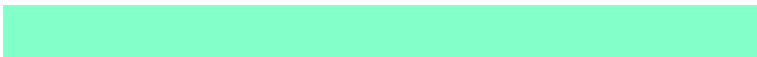
The Sweet Spot groups the original color and five complimentary colors.



46.3280, 0.2319, 0.2412



80.2791, 0.2890, 0.3062



80.5653, 0.2726, 0.3944



16.6402, 0.2855, 0.3027



0.0000, 0.0000, 0.0000

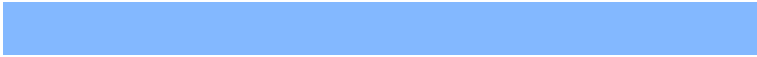


21.4041, 0.3127, 0.3290

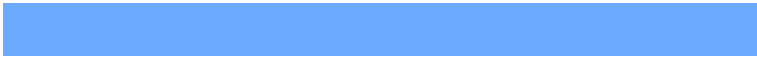


# Same Dimension

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



46.3280, 0.2319, 0.2412



39.2504, 0.2167, 0.2205



28.9357, 0.2246, 0.1764



18.6560, 0.2979, 0.3150



9.7844, 0.1706, 0.1342



1.1642, 0.1768, 0.1563



# Inverse Universe

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



40.9317, 0.3889, 0.2745



34.7136, 0.4119, 0.2658



92.8796, 0.3787, 0.4503



18.1161, 0.3227, 0.3189



11.7157, 0.5269, 0.2676

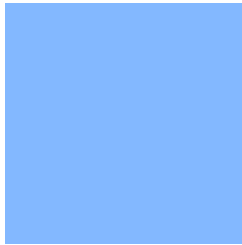


1.1621, 0.4978, 0.2516



# Previews

## White Background



This preview shows how the Yxy color 46.3263, 0.2319, 0.2412 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

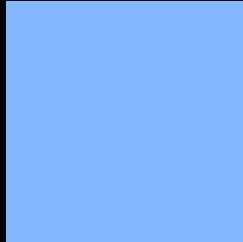
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.3263, 0.2319, 0.2412 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

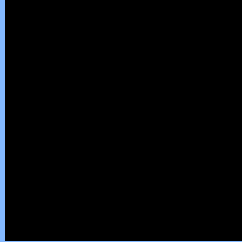
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

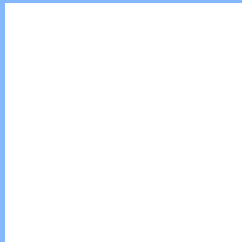
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.3263, 0.2319, 0.2412**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.3263, 0.2319, 0.2412.



This preview shows how white text looks on a background with the Yxy color 46.3263, 0.2319, 0.2412.

# 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

46.3263, 0.2319, 0.2412

### Protanopia

46.1138, 0.2493, 0.2422

### Deuteranopia

46.2325, 0.2431, 0.2376



## Tritanopia

46.4070, 0.2499, 0.3079

# Trichromacy



**Original Color**

46.3263, 0.2319, 0.2412

**Protanomaly**

46.0604, 0.2425, 0.2413

**Deuteranomaly**

46.2875, 0.2388, 0.2390

**Tritanomaly**

46.3281, 0.2428, 0.2820

# Monochromacy



**Original Color**

46.3263, 0.2319, 0.2412

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

44.1216, 0.2779, 0.2945

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.3263, 0.2319, 0.2412 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, 184, 255)` looks like.

```
.text, #text, p{  
    color:rgb(131, 184, 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(131, 184, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 184, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.3263, 0.2319, 0.2412 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, 184, 255) }
```

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

```
.border{ border-color:rgb(131, 184, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 184, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 184, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 184, 255);  
box-shadow:4px 4px 4px 4px rgb(131, 184,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.3263, 0.2319, 0.2412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 184, 255) }
```

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

```
.background{ background-color: rgb(131,  
184, 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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