

# Converting Colors

$Yxy(47.8159, 0.2315, 0.2462)$

Have a look what the booklet for  
Yxy(47.8159, 0.2315, 0.2462)  
contains.

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# Color

**Yxy(47.7756, 0.2314, 0.2460)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80BCFF
RGB	128, 188, 255
RGB Percent	50%, 74%, 100%
CMY	0.4980, 0.2628, 0.0000
CMYK	0.50, 0.26, 0.00, 0.00
HSL	212°, 100%, 75%
HSV	212°, 50%, 100%
XYZ	44.9401, 47.7756, 101.4940
YIQ	177.6980, -57.2670, 8.1170

# Conversions

## Conversions Part 2

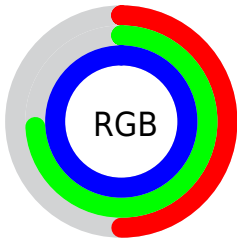
Format	Color
R <sub>Y</sub> B	128, 169, 255
Decimal	8436991
CIE Lab	74.68, -1.35, -39.02
CIE LCh	75, 39.043, 268.017
Yxy	47.7756, 0.2314, 0.2460
Android (android.graphics.Color)	4286627071 (0xFF80BCFF)
YUV	177.6980, 38.1099, -43.5851
Hunter-Lab	69.1199, -4.9033, -38.6761

# Details

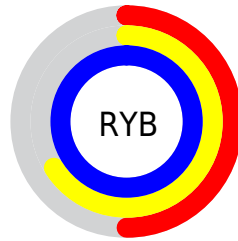
The Yxy color **47.7756, 0.2314, 0.2460** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **61.8518, 0.4159, 0.3979**, and the grayscale version is **44.1701, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3605, 0.2719, 0.3170**, and **22.6341, 0.2112, 0.2251** is the 20% darker color. If you saturate the color by 10%, you get **40.5568, 0.2160, 0.2256**, and if you desaturate by 10%, it is **56.0253, 0.2478, 0.2656**.

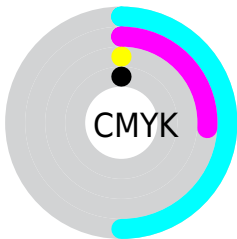
# Distribution



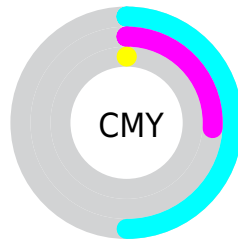
- Red (50%)
- Green (74%)
- Blue (100%)



- Red (50%)
- Yellow (66%)
- Blue (100%)



- Cyan (50%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (50%)
- Magenta (26%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.7756, 0.2314, 0.2460 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 47.7756, 0.2314, 0.2460 by changing the saturation by 10% instead.



■ 47.7756, 0.2314,  
0.2460

■ 47.7756, 0.2314,  
0.2460

377.9020, 0.2704,  
0.2860

■ 33.6492, 0.2223,  
0.2367

■ 86.8702, 0.2451,  
0.2601

■ 22.6242, 0.2111,  
0.2251

■ 112.6072, 0.2504,  
0.2655

■ 14.3163, 0.1969,  
0.2104

■ 142.9832, 0.2549,  
0.2701

■ 8.3410, 0.1784,  
0.1913

178.3826, 0.2588,  
0.2742

■ 4.3139, 0.1539,  
0.1658

219.1898, 0.2623,  
0.2777

■ 1.8507, 0.1207,  
0.1310

265.7891, 0.2653,

■ 0.5185, 0.0692,

0.2808

0.0780

318.5651, 0.2680,  
0.2835

0.0000, 0.0000,  
0.0000

47.7756, 0.2314,  
0.2460

47.7756, 0.2314,  
0.2460

40.5568, 0.2160,  
0.2256

56.0253, 0.2478,  
0.2656

34.3191, 0.2021,  
0.2047

65.3565, 0.2645,  
0.2838

29.0028, 0.1902,  
0.1840

75.8129, 0.2812,  
0.3005

24.5403, 0.1808,  
0.1642

87.4361, 0.2974,  
0.3157

20.8321, 0.1738,  
0.1457

100.0000, 0.3127,  
0.3290

■ 20.7645, 0.1737,  
0.1453

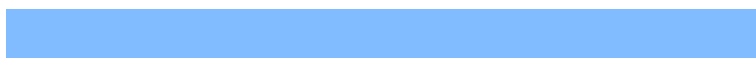
# Harmonies

## Analogous

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



47.7756, 0.2156, 0.2670



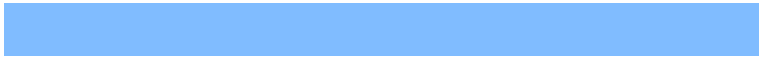
47.7756, 0.2314, 0.2460



47.7756, 0.2680, 0.2457

# Triad

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



47.7756, 0.2314, 0.2460



47.7756, 0.4119, 0.3363



47.7756, 0.2987, 0.4098

# Complementary

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



47.7756, 0.2314, 0.2460



61.8518, 0.4159, 0.3979

# 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.



47.7756, 0.3518, 0.4276



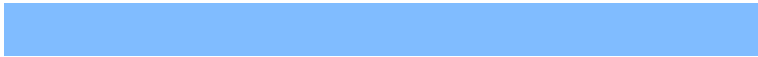
47.7756, 0.2314, 0.2460



47.7756, 0.4198, 0.3784

# Square

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



47.7756, 0.2314, 0.2460



47.7756, 0.3739, 0.2957



47.7756, 0.3968, 0.4131

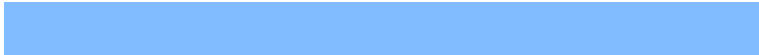


47.7756, 0.2517, 0.3631



# Rectangle

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



47.7756, 0.2314, 0.2460



47.7756, 0.3014, 0.2558



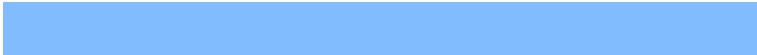
47.7756, 0.3968, 0.4131



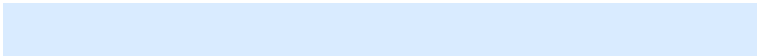
47.7756, 0.3164, 0.4196

# Sweetspot

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



47.7747, 0.2314, 0.2460



81.2467, 0.2891, 0.3080



79.9874, 0.2749, 0.4045



16.8724, 0.2856, 0.3048



0.0000, 0.0000, 0.0000

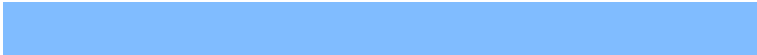


21.4041, 0.3127, 0.3290

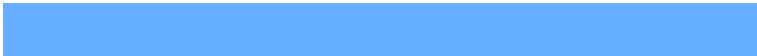


# Same Dimension

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



47.7747, 0.2314, 0.2460



40.4243, 0.2157, 0.2252



27.4147, 0.2181, 0.1708



18.7930, 0.2979, 0.3161



11.1436, 0.1745, 0.1483



1.3017, 0.1804, 0.1695



# Inverse Universe

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



40.3301, 0.3852, 0.2677



33.8296, 0.4084, 0.2575



93.9394, 0.3845, 0.4508



18.1300, 0.3220, 0.3178



11.8529, 0.5082, 0.2573



1.1760, 0.4812, 0.2425



# Previews

## White Background



This preview shows how the Yxy color 47.7756, 0.2314, 0.2460 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

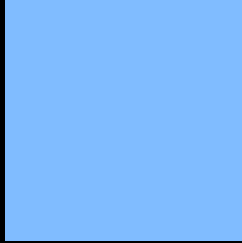
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.7756, 0.2314, 0.2460 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

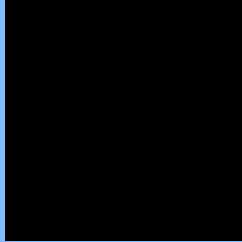
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

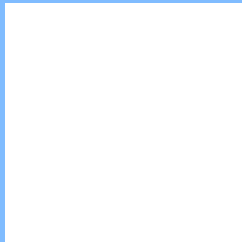
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.7756, 0.2314, 0.2460**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.7756, 0.2314, 0.2460.



This preview shows how white text looks on a background with the Yxy color 47.7756, 0.2314, 0.2460.

# 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

47.7756, 0.2314, 0.2460

### Protanopia

47.6738, 0.2529, 0.2475

### Deuteranopia

47.5368, 0.2465, 0.2408



## Tritanopia

47.8107, 0.2474, 0.3068

# Trichromacy



**Original Color**

47.7756, 0.2314, 0.2460

**Protanomaly**

47.7300, 0.2444, 0.2475

**Deuteranomaly**

47.7040, 0.2406, 0.2431

**Tritanomaly**

47.6633, 0.2410, 0.2824

# Monochromacy



**Original Color**

47.7756, 0.2314, 0.2460

**Achromatopsia**

44.5201, 0.3127, 0.3290

**Achromatomaly**

45.3857, 0.2775, 0.2973

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.7756, 0.2314, 0.2460 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(128, 188, 255)` looks like.

```
.text, #text, p{  
    color:rgb(128, 188, 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(128, 188, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 188, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 47.7756, 0.2314, 0.2460 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(128, 188, 255) }
```

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

```
.border{ border-color:rgb(128, 188, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 188, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 188, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 188, 255);  
box-shadow:4px 4px 4px 4px rgb(128, 188,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.7756, 0.2314, 0.2460 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 188, 255) }
```

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

```
.background{ background-color: rgb(128,  
188, 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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