

# Converting Colors

$Yxy(46.2836, 0.2201, 0.2445)$

Have a look what the booklet for  
Yxy(46.2836, 0.2201, 0.2445)  
contains.

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# Color

**Yxy(46.4400, 0.2201, 0.2450)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66BDFF
RGB	102, 189, 255
RGB Percent	40%, 74%, 100%
CMY	0.6004, 0.2588, 0.0000
CMYK	0.60, 0.26, 0.00, 0.00
HSL	206°, 100%, 70%
HSV	206°, 60%, 100%
XYZ	41.7202, 46.4400, 101.3908
YIQ	170.5110, -73.0380, 2.0820

# Conversions

## Conversions Part 2

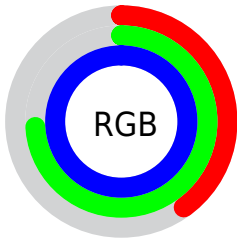
Format	Color
R <sub>Y</sub> B	102, 157, 255
Decimal	6733311
CIE Lab	73.83, -7.21, -40.42
CIE LCh	74, 41.061, 259.889
Yxy	46.4400, 0.2201, 0.2450
Android (android.graphics.Color)	4284923391 (0xFF66BDFF)
YUV	170.5110, 41.6531, -60.0841
Hunter-Lab	68.1469, -9.9777, -40.5105

# Details

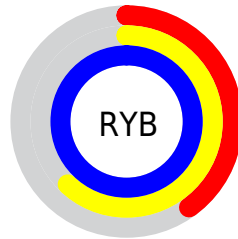
The Yxy color **46.4400, 0.2201, 0.2450** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **50.1773, 0.4537, 0.3952**, and the grayscale version is **40.2695, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.4173, 0.2608, 0.3178**, and **21.8450, 0.1975, 0.2234** is the 20% darker color. If you saturate the color by 10%, you get **40.6235, 0.2077, 0.2281**, and if you desaturate by 10%, it is **53.0730, 0.2341, 0.2615**.

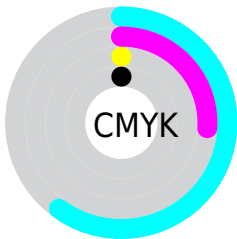
# Distribution



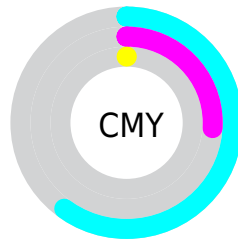
- Red (40%)
- Green (74%)
- Blue (100%)



- Red (40%)
- Yellow (62%)
- Blue (100%)



- Cyan (60%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (60%)
- Magenta (26%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.4400, 0.2201, 0.2450 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 46.4400, 0.2201, 0.2450 by changing the saturation by 10% instead.



■ 46.4400, 0.2201,  
0.2450

■ 46.4400, 0.2201,  
0.2450

372.5748, 0.2643,  
0.2860

■ 32.5932, 0.2099,  
0.2353

■ 84.8771, 0.2356,  
0.2595

■ 21.8150, 0.1973,  
0.2233

■ 110.2362, 0.2416,  
0.2651

■ 13.7210, 0.1815,  
0.2079

■ 140.2015, 0.2467,  
0.2698

■ 7.9269, 0.1613,  
0.1880

175.1574, 0.2512,  
0.2740

■ 4.0482, 0.1348,  
0.1613

215.4882, 0.2551,  
0.2775

■ 1.7006, 0.0999,  
0.1250

261.5785, 0.2585,

■ 0.4240, 0.0360,

0.2807

0.0673

313.8126, 0.2616,  
0.2835

0.0000, 0.0000,  
0.0000

46.4400, 0.2201,  
0.2450

46.4400, 0.2201,  
0.2450

40.6235, 0.2077,  
0.2281

53.0730, 0.2341,  
0.2615

35.5715, 0.1972,  
0.2111

60.5677, 0.2493,  
0.2773

31.2240, 0.1890,  
0.1944

68.9658, 0.2651,  
0.2920

27.5020, 0.1829,  
0.1784

78.3054, 0.2811,  
0.3055

88.6224, 0.2971,  
0.3179

99.9502, 0.3127,  
0.3290

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.



46.4400, 0.2098, 0.2730



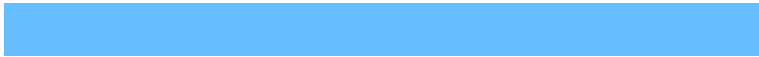
46.4400, 0.2201, 0.2450



46.4400, 0.2529, 0.2392

# Triad

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



46.4400, 0.2201, 0.2450



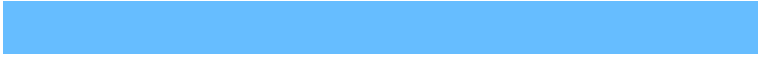
46.4400, 0.4099, 0.3242



46.4400, 0.3127, 0.4240

# Complementary

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



46.4400, 0.2201, 0.2450



50.1773, 0.4537, 0.3952

# 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.



46.4400, 0.3682, 0.4325



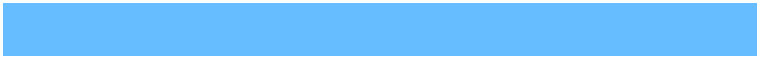
46.4400, 0.2201, 0.2450



46.4400, 0.4275, 0.3689

# Square

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



46.4400, 0.2201, 0.2450



46.4400, 0.3629, 0.2834



46.4400, 0.4110, 0.4092



46.4400, 0.2600, 0.3807



# Rectangle

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



46.4400, 0.2201, 0.2450



46.4400, 0.2855, 0.2466



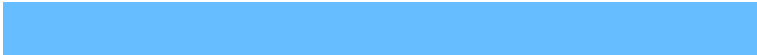
46.4400, 0.4110, 0.4092



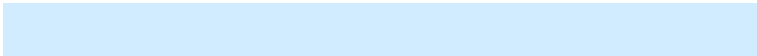
46.4400, 0.3317, 0.4311

# Sweetspot

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



46.4402, 0.2201, 0.2450



80.3317, 0.2844, 0.3082



77.0802, 0.2772, 0.4444



16.5789, 0.2798, 0.3044



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.



46.4402, 0.2201, 0.2450



39.5759, 0.2054, 0.2247



22.2207, 0.1985, 0.1490



19.0936, 0.2979, 0.3185



14.6729, 0.1836, 0.1811



1.6458, 0.1887, 0.1994



# Inverse Universe

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



34.4165, 0.3900, 0.2433



28.9471, 0.4135, 0.2331



85.8650, 0.4047, 0.4605



18.1603, 0.3205, 0.3156



12.2092, 0.4673, 0.2348

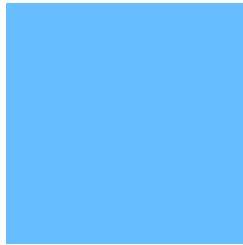


1.2107, 0.4459, 0.2230



# Previews

## White Background



This preview shows how the Yxy color 46.4400, 0.2201, 0.2450 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

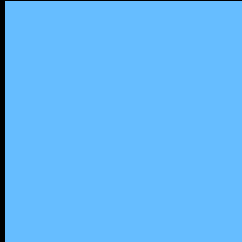
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.4400, 0.2201, 0.2450 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

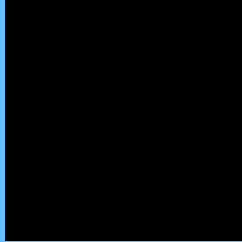
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

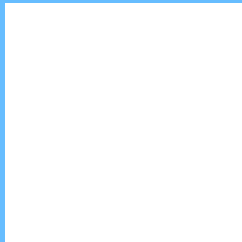
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.4400, 0.2201, 0.2450**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.4400, 0.2201, 0.2450.

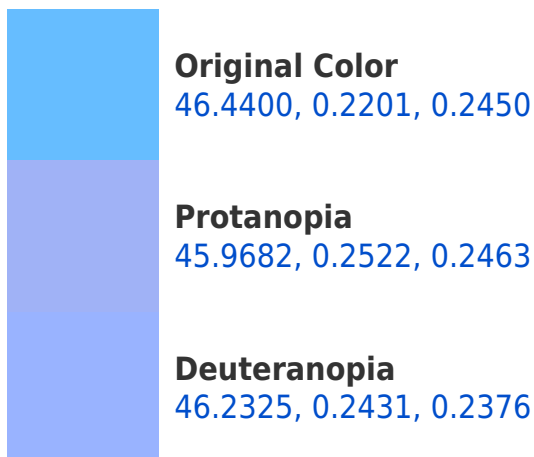


This preview shows how white text looks on a background with the Yxy color 46.4400, 0.2201, 0.2450.

# 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





## Tritanopia

46.5756, 0.2336, 0.3060

# Trichromacy



**Original Color**

46.4400, 0.2201, 0.2450

**Protanomaly**

45.7844, 0.2386, 0.2457

**Deuteranomaly**

46.1553, 0.2333, 0.2402

**Tritanomaly**

46.3587, 0.2284, 0.2823

# Monochromacy



**Original Color**

46.4400, 0.2201, 0.2450

**Achromatopsia**

40.1978, 0.3127, 0.3290

**Achromatomaly**

41.6811, 0.2692, 0.2958

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.4400, 0.2201, 0.2450 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(102, 189, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 189, 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(102, 189, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 189, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.4400, 0.2201, 0.2450 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(102, 189, 255) }
```

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

```
.border{ border-color:rgb(102, 189, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 189, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 189, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 189, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 189,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.4400, 0.2201, 0.2450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 189, 255) }
```

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

```
.background{ background-color: rgb(102,  
189, 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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