

# Converting Colors

$Y_{xy}(46.8667, 0.2252, 0.2449)$

Have a look what the booklet for  
Yxy(46.8667, 0.2252, 0.2449)  
contains.

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# Color

**Yxy(46.8313, 0.2253, 0.2448)**

# Conversions

## Conversions Part 1

Format	Color
Hex	73BCFF
RGB	115, 188, 255
RGB Percent	45%, 74%, 100%
CMY	0.5491, 0.2627, 0.0000
CMYK	0.55, 0.26, 0.00, 0.00
HSL	209°, 100%, 73%
HSV	209°, 55%, 100%
XYZ	43.1009, 46.8313, 101.3722
YIQ	173.8110, -65.0150, 5.3610

# Conversions

## Conversions Part 2

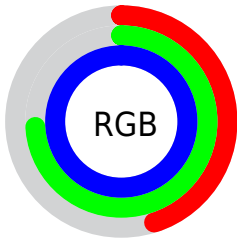
Format	Color
R <sub>Y</sub> B	115, 163, 255
Decimal	7585023
CIE Lab	74.08, -4.15, -39.98
CIE LCh	74, 40.192, 264.078
Yxy	46.8313, 0.2253, 0.2448
Android (android.graphics.Color)	4285775103 (0xFF73BCFF)
YUV	173.8110, 40.0262, -51.5772
Hunter-Lab	68.4334, -7.3352, -39.9244

# Details

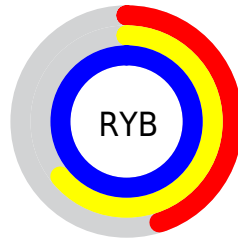
The Yxy color **46.8313, 0.2253, 0.2448** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **55.9429, 0.4337, 0.3973**, and the grayscale version is **42.0406, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.0353, 0.2662, 0.3168**, and **22.0581, 0.2037, 0.2232** is the 20% darker color. If you saturate the color by 10%, you get **40.3424, 0.2113, 0.2261**, and if you desaturate by 10%, it is **54.2422, 0.2406, 0.2629**.

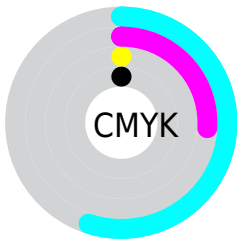
# Distribution



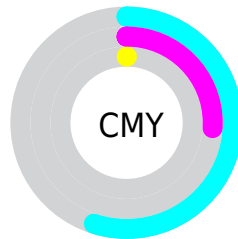
- Red (45%)
- Green (74%)
- Blue (100%)



- Red (45%)
- Yellow (64%)
- Blue (100%)



- Cyan (55%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (55%)
- Magenta (26%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.8313, 0.2253, 0.2448 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 46.8313, 0.2253, 0.2448 by changing the saturation by 10% instead.



■ 46.8313, 0.2253,  
0.2448

■ 46.8313, 0.2253,  
0.2448

374.1407, 0.2671,  
0.2856

■ 32.9023, 0.2156,  
0.2352

■ 85.4618, 0.2400,  
0.2592

■ 22.0516, 0.2036,  
0.2233

■ 110.9320, 0.2456,  
0.2648

■ 13.8948, 0.1885,  
0.2082

■ 141.0181, 0.2505,  
0.2695

■ 8.0476, 0.1690,  
0.1885

176.1045, 0.2547,  
0.2736

■ 4.1254, 0.1433,  
0.1622

216.5756, 0.2584,  
0.2772

■ 1.7440, 0.1090,  
0.1265

262.8157, 0.2617,

■ 0.4519, 0.0510,

0.2803

0.0703

315.2093, 0.2646,  
0.2831

0.0000, 0.0000,  
0.0000

46.8313, 0.2253,  
0.2448

46.8313, 0.2253,  
0.2448

40.3424, 0.2113,  
0.2261

54.2422, 0.2406,  
0.2629

34.7192, 0.1991,  
0.2071

62.6164, 0.2567,  
0.2799

29.9049, 0.1890,  
0.1884

71.9982, 0.2730,  
0.2957

25.8297, 0.1814,  
0.1705

82.4272, 0.2893,  
0.3101

23.9923, 0.1783,  
0.1618

93.9404, 0.3052,  
0.3231

99.9998, 0.3127,  
0.3290

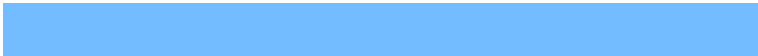
# Harmonies

## Analogous

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



46.8313, 0.2120, 0.2692



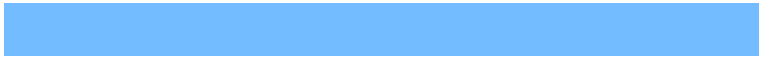
46.8313, 0.2253, 0.2448



46.8313, 0.2603, 0.2419

# Triad

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



46.8313, 0.2253, 0.2448



46.8313, 0.4119, 0.3305



46.8313, 0.3051, 0.4175

# Complementary

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



46.8313, 0.2253, 0.2448



55.9429, 0.4337, 0.3973

# 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.



46.8313, 0.3599, 0.4310



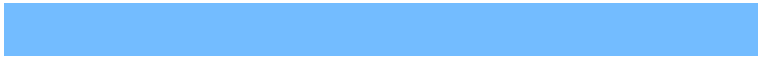
46.8313, 0.2253, 0.2448



46.8313, 0.4245, 0.3742

# Square

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



46.8313, 0.2253, 0.2448



46.8313, 0.3693, 0.2895



46.8313, 0.4043, 0.4120

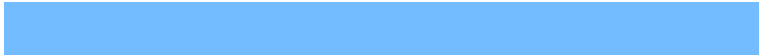


46.8313, 0.2550, 0.3717



# Rectangle

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



46.8313, 0.2253, 0.2448



46.8313, 0.2937, 0.2508



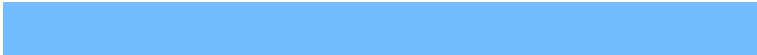
46.8313, 0.4043, 0.4120



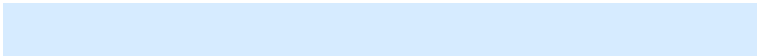
46.8313, 0.3236, 0.4261

# Sweetspot

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



46.8330, 0.2253, 0.2448



81.2374, 0.2875, 0.3086



78.4706, 0.2756, 0.4233



16.9151, 0.2842, 0.3057



0.0000, 0.0000, 0.0000

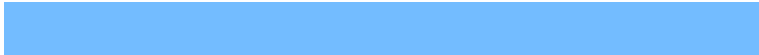


21.4041, 0.3127, 0.3290



# Same Dimension

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



46.8330, 0.2253, 0.2448



39.6877, 0.2098, 0.2240



24.2131, 0.2070, 0.1576



18.9454, 0.2979, 0.3173



12.8379, 0.1791, 0.1646



1.4689, 0.1846, 0.1846



# Inverse Universe

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



37.1487, 0.3883, 0.2555



31.1025, 0.4121, 0.2450



91.0735, 0.3944, 0.4569



18.1453, 0.3212, 0.3167



12.0240, 0.4873, 0.2458

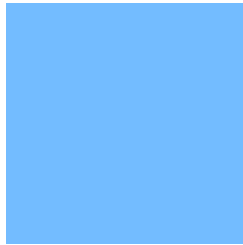


1.1928, 0.4631, 0.2325



# Previews

## White Background



This preview shows how the Yxy color 46.8313, 0.2253, 0.2448 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

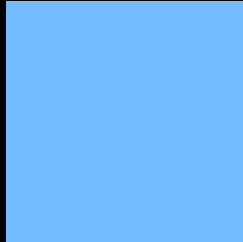
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.8313, 0.2253, 0.2448 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

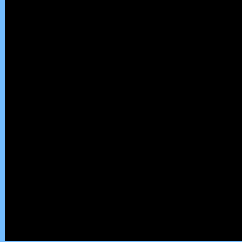
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

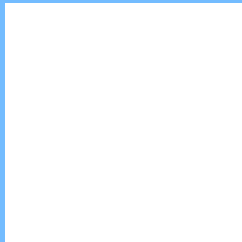
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.8313, 0.2253, 0.2448**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.8313, 0.2253, 0.2448.



This preview shows how white text looks on a background with the Yxy color 46.8313, 0.2253, 0.2448.

# 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

46.8313, 0.2253, 0.2448

### Protanopia

46.5946, 0.2519, 0.2457

### Deuteranopia

46.3302, 0.2437, 0.2377



## Tritanopia

46.8860, 0.2402, 0.3063

# Trichromacy



**Original Color**

46.8313, 0.2253, 0.2448

**Protanomaly**

46.3502, 0.2405, 0.2442

**Deuteranomaly**

46.2513, 0.2363, 0.2397

**Tritanomaly**

46.7446, 0.2343, 0.2816

# Monochromacy



**Original Color**

46.8313, 0.2253, 0.2448

**Achromatopsia**

42.3268, 0.3127, 0.3290

**Achromatomaly**

43.3243, 0.2740, 0.2965

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.8313, 0.2253, 0.2448 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(115, 188, 255)` looks like.

```
.text, #text, p{  
    color:rgb(115, 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(115, 188, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 188, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.8313, 0.2253, 0.2448 is called "border". The border property can be set on classes, ids or directly on the HTML element.

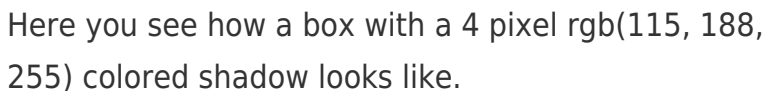
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(115, 188, 255) }
```

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

```
.border{ border-color:rgb(115, 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(115, 188, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 188, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 188, 255);  
box-shadow:4px 4px 4px 4px rgb(115, 188,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.8313, 0.2253, 0.2448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 188, 255) }
```

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

```
.background{ background-color: rgb(115,  
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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