

# Converting Colors

$Y_{xy}(46.5126, 0.2221, 0.2375)$

Have a look what the booklet for  
Yxy(46.5126, 0.2221, 0.2375)  
contains.

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# Color

**Yxy(46.3381, 0.2246, 0.2434)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72BBFF
RGB	114, 187, 255
RGB Percent	45%, 73%, 100%
CMY	0.5528, 0.2667, 0.0001
CMYK	0.55, 0.27, 0.00, 0.00
HSL	209°, 100%, 72%
HSV	209°, 55%, 100%
XYZ	42.7590, 46.3381, 101.2813
YIQ	172.9250, -65.3360, 5.6720

# Conversions

## Conversions Part 2

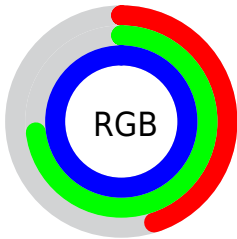
Format	Color
<a href="#">RYB</a>	<a href="#">114, 162, 255</a>
Decimal	<a href="#">7519231</a>
CIELab	<a href="#">73.76, -3.80, -40.47</a>
CIElCh	<a href="#">74, 40.644, 264.640</a>
Yxy	<a href="#">46.3381, 0.2246, 0.2434</a>
Android (android.graphics.Color)	<a href="#">4285709311 (0xFF72BBFF)</a>
YUV	<a href="#">172.9250, 40.4630, -51.6772</a>
Hunter-Lab	<a href="#">68.0721, -7.0027, -40.5644</a>

# Details

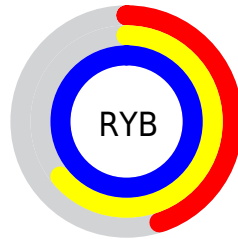
The Yxy color **46.3381, 0.2246, 0.2434** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **55.9293, 0.4344, 0.3983**, and the grayscale version is **41.5675, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.3199, 0.2655, 0.3157**, and **21.7317, 0.2026, 0.2213** is the 20% darker color. If you saturate the color by 10%, you get **39.8649, 0.2106, 0.2245**, and if you desaturate by 10%, it is **53.7379, 0.2399, 0.2617**.

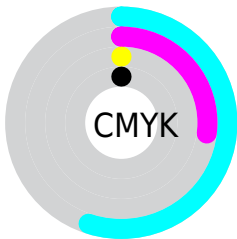
# Distribution



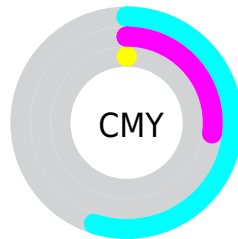
- Red (45%)
- Green (73%)
- Blue (100%)



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



- Cyan (55%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)



- Cyan (55%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.3381, 0.2246, 0.2434 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 46.3381, 0.2246, 0.2434 by changing the saturation by 10% instead.



■ 46.3381, 0.2246,  
0.2434

■ 46.3381, 0.2246,  
0.2434

■ 372.1663, 0.2668,  
0.2849

■ 32.5127, 0.2148,  
0.2337

■ 84.7248, 0.2394,  
0.2581

■ 21.7534, 0.2027,  
0.2215

■ 110.0548, 0.2451,  
0.2637

■ 13.6758, 0.1874,  
0.2062

■ 139.9886, 0.2501,  
0.2685

■ 7.8955, 0.1677,  
0.1862

■ 174.9104, 0.2543,  
0.2727

■ 4.0282, 0.1418,  
0.1596

■ 215.2047, 0.2580,  
0.2763

■ 1.6893, 0.1073,  
0.1235

■ 261.2558, 0.2613,

■ 0.4167, 0.0477,

0.2795

0.0655

313.4482, 0.2642,  
0.2824

0.0000, 0.0000,  
0.0000

46.3381, 0.2246,  
0.2434

46.3381, 0.2246,  
0.2434

39.8649, 0.2106,  
0.2245

53.7379, 0.2399,  
0.2617

34.2615, 0.1984,  
0.2054

62.1060, 0.2560,  
0.2789

29.4705, 0.1884,  
0.1866

71.4871, 0.2724,  
0.2949

25.4212, 0.1808,  
0.1686

81.9210, 0.2887,  
0.3095

23.7246, 0.1779,  
0.1605

93.4453, 0.3046,  
0.3226

99.9988, 0.3127,  
0.3290

# Harmonies

## Analogous

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



46.3381, 0.2108, 0.2676



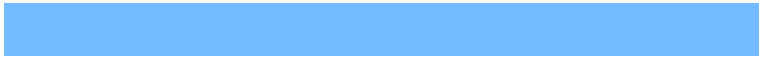
46.3381, 0.2246, 0.2434



46.3381, 0.2604, 0.2409

# Triad

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



46.3381, 0.2246, 0.2434



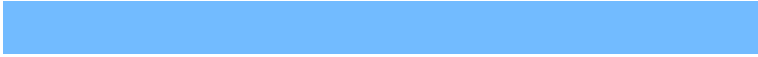
46.3381, 0.4140, 0.3313



46.3381, 0.3039, 0.4183

# Complementary

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



46.3381, 0.2246, 0.2434



55.9293, 0.4344, 0.3983

# 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.



46.3381, 0.3595, 0.4326



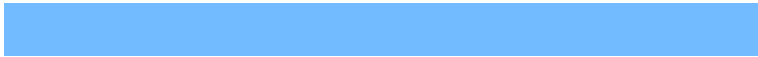
46.3381, 0.2246, 0.2434



46.3381, 0.4261, 0.3755

# Square

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



46.3381, 0.2246, 0.2434



46.3381, 0.3711, 0.2897



46.3381, 0.4049, 0.4137

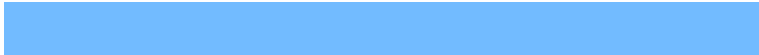


46.3381, 0.2534, 0.3713



# Rectangle

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



46.3381, 0.2246, 0.2434



46.3381, 0.2944, 0.2502



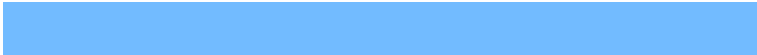
46.3381, 0.4049, 0.4137



46.3381, 0.3226, 0.4272

# Sweetspot

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



46.3398, 0.2246, 0.2434



80.0641, 0.2859, 0.3071



78.3743, 0.2755, 0.4241



16.6778, 0.2826, 0.3042



0.0000, 0.0000, 0.0000

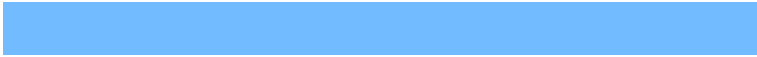


21.4041, 0.3127, 0.3290



# Same Dimension

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



46.3398, 0.2246, 0.2434



39.4400, 0.2096, 0.2231



23.9259, 0.2062, 0.1564



18.9335, 0.2979, 0.3172



12.6994, 0.1787, 0.1633



1.4553, 0.1843, 0.1834



# Inverse Universe

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



36.8848, 0.3897, 0.2556



31.0775, 0.4129, 0.2456



91.0188, 0.3949, 0.4576



18.1441, 0.3213, 0.3168



12.0100, 0.4889, 0.2467

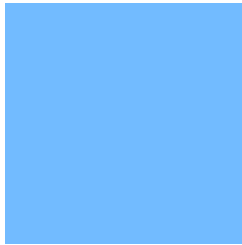


1.1915, 0.4645, 0.2332



# Previews

## White Background



This preview shows how the Yxy color 46.3381, 0.2246, 0.2434 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

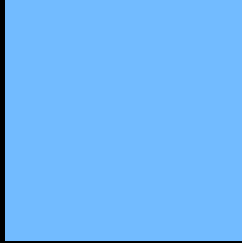
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.3381, 0.2246, 0.2434 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

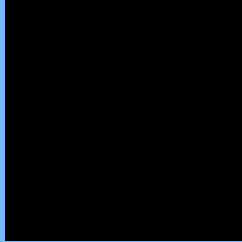
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

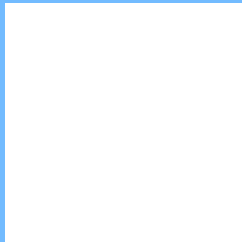
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.3381, 0.2246, 0.2434**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.3381, 0.2246, 0.2434.

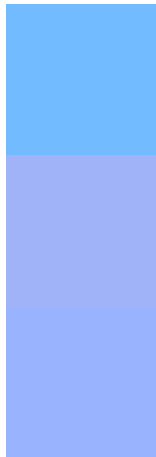


This preview shows how white text looks on a background with the Yxy color 46.3381, 0.2246, 0.2434.

# 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

46.3381, 0.2246, 0.2434

### Protanopia

46.0917, 0.2510, 0.2443

### Deuteranopia

46.2325, 0.2431, 0.2376



## Tritanopia

46.2747, 0.2395, 0.3062

# Trichromacy



## Original Color

46.3381, 0.2246, 0.2434

## Protanomaly

45.8524, 0.2397, 0.2428

## Deuteranomaly

46.1649, 0.2357, 0.2396

## Tritanomaly

46.1289, 0.2336, 0.2813

# Monochromacy



## Original Color

46.3381, 0.2246, 0.2434

## Achromatopsia

41.7885, 0.3127, 0.3290

## Achromatomaly

42.8280, 0.2732, 0.2951

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  46.3381, 0.2246, 0.2434 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(114, 187, 255)` looks like.

```
.text, #text, p{  
    color:rgb(114, 187, 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(114, 187, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 187, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.3381, 0.2246, 0.2434 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(114, 187, 255) }
```

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

```
.border{ border-color:rgb(114, 187, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 187, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 187, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 187, 255);  
box-shadow:4px 4px 4px 4px rgb(114, 187,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.3381, 0.2246, 0.2434 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 187, 255) }
```

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

```
.background{ background-color: rgb(114,  
187, 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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