

# Converting Colors

$Y_{xy}(44.4092, 0.2175, 0.2075)$

Have a look what the booklet for  
Yxy(44.4092, 0.2175, 0.2075)  
contains.

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# Color

**Yxy(42.7827, 0.2279, 0.2303)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7FB0FF
RGB	127, 176, 255
RGB Percent	50%, 69%, 100%
CMY	0.5017, 0.3099, 0.0000
CMYK	0.50, 0.31, 0.00, 0.00
HSL	217°, 100%, 75%
HSV	217°, 50%, 100%
XYZ	42.3369, 42.7827, 100.6499
YIQ	170.3550, -54.5630, 14.1810

# Conversions

## Conversions Part 2

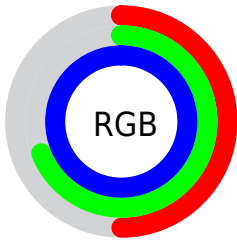
Format	Color
R <sub>Y</sub> B	127, 162, 255
Decimal	8368383
CIE Lab	71.41, 5.10, -44.12
CIE LCh	71, 44.418, 276.591
Yxy	42.7827, 0.2279, 0.2303
Android (android.graphics.Color)	4286558463 (0xFF7FB0FF)
YUV	170.3550, 41.7300, -38.0223
Hunter-Lab	65.4085, 1.0726, -45.4489

# Details

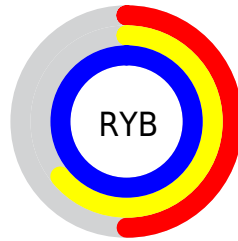
The Yxy color **42.7827, 0.2279, 0.2303** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **66.9748, 0.4105, 0.4093**, and the grayscale version is **40.1992, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.6861, 0.2700, 0.3026**, and **19.6508, 0.2058, 0.2058** is the 20% darker color. If you saturate the color by 10%, you get **35.2440, 0.2113, 0.2063**, and if you desaturate by 10%, it is **51.5339, 0.2454, 0.2534**.

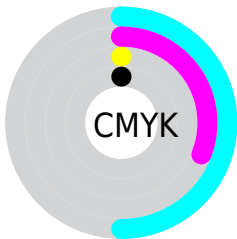
# Distribution



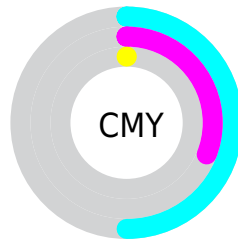
- Red (50%)
- Green (69%)
- Blue (100%)



- Red (50%)
- Yellow (64%)
- Blue (100%)



- Cyan (50%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (50%)
- Magenta (31%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.7827, 0.2279, 0.2303 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 42.7827, 0.2279, 0.2303 by changing the saturation by 10% instead.





 42.7827, 0.2279,  
0.2303

 42.7827, 0.2279,  
0.2303


357.7174, 0.2693,  
0.2777

 29.7147, 0.2181,  
0.2193


 79.3828, 0.2426,  
0.2469

 19.6221, 0.2060,  
0.2057


 103.6837, 0.2482,  
0.2534

 12.1207, 0.1906,  
0.1886


 132.4977, 0.2530,  
0.2589

 6.8259, 0.1706,  
0.1667

166.2091, 0.2571,  
0.2637

 3.3535, 0.1440,  
0.1380

205.2024, 0.2607,  
0.2678

 1.3189, 0.1084,  
0.1005

249.8619, 0.2639,

 0.1558, 0.0456,

0.2715

0.0261

300.5721, 0.2668,  
0.2748

0.0000, 0.0000,  
0.0000

42.7827, 0.2279,  
0.2303

42.7827, 0.2279,  
0.2303

35.2440, 0.2113,  
0.2063

51.5339, 0.2454,  
0.2534

28.8544, 0.1961,  
0.1821

61.5542, 0.2630,  
0.2750

23.5449, 0.1833,  
0.1586

72.8970, 0.2803,  
0.2949

19.2359, 0.1732,  
0.1368

85.6123, 0.2968,  
0.3128

15.8640, 0.1661,  
0.1177

99.7473, 0.3125,  
0.3287

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.



42.7827, 0.2029, 0.2466



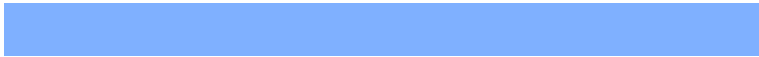
42.7827, 0.2279, 0.2303



42.7827, 0.2758, 0.2367

# Triad

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



42.7827, 0.2279, 0.2303



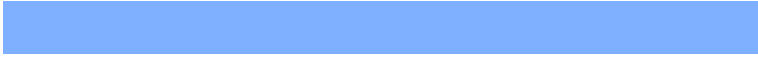
42.7827, 0.4364, 0.3501



42.7827, 0.2782, 0.4126

# Complementary

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



42.7827, 0.2279, 0.2303



66.9748, 0.4105, 0.4093

# 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.



42.7827, 0.3398, 0.4448



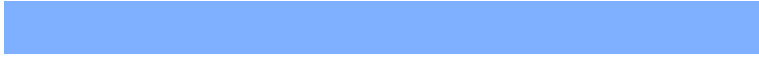
42.7827, 0.2279, 0.2303



42.7827, 0.4339, 0.3979

# Square

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



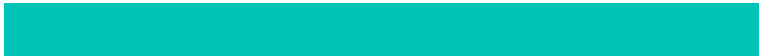
42.7827, 0.2279, 0.2303



42.7827, 0.4007, 0.3024



42.7827, 0.3971, 0.4352



42.7827, 0.2289, 0.3500



# Rectangle

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



42.7827, 0.2279, 0.2303



42.7827, 0.3173, 0.2519



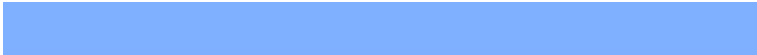
42.7827, 0.3971, 0.4352



42.7827, 0.2981, 0.4280

# Sweetspot

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



42.7830, 0.2279, 0.2303



79.2963, 0.2889, 0.3044



80.4914, 0.2687, 0.3886



16.4046, 0.2854, 0.3006



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

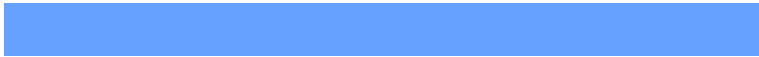


# Same Dimension

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



42.7830, 0.2279, 0.2303



35.3623, 0.2115, 0.2067



28.1661, 0.2257, 0.1727



18.5163, 0.2979, 0.3139



8.5552, 0.1669, 0.1208



1.0363, 0.1731, 0.1432



# Inverse Universe

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



39.5901, 0.3991, 0.2788



33.3186, 0.4263, 0.2712



91.5923, 0.3760, 0.4558



18.1020, 0.3234, 0.3199



11.5916, 0.5455, 0.2779



1.1492, 0.5148, 0.2610



# Previews

## White Background



This preview shows how the Yxy color 42.7827, 0.2279, 0.2303 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

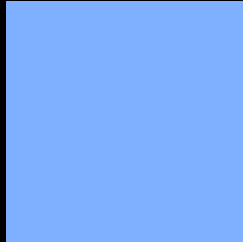
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.7827, 0.2279, 0.2303 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

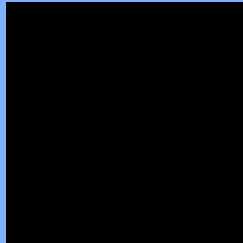
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

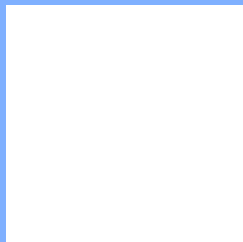
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.7827, 0.2279, 0.2303**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.7827, 0.2279, 0.2303.



This preview shows how white text looks on a background with the Yxy color 42.7827, 0.2279, 0.2303.

# 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

42.7827, 0.2279, 0.2303

### Protanopia

42.3868, 0.2406, 0.2307

### Deuteranopia

42.6826, 0.2342, 0.2282



## Tritanopia

42.6499, 0.2487, 0.3072

# Trichromacy



**Original Color**

42.7827, 0.2279, 0.2303

**Protanomaly**

42.4909, 0.2357, 0.2311

**Deuteranomaly**

42.6430, 0.2317, 0.2288

**Tritanomaly**

42.3894, 0.2401, 0.2752

# Monochromacy



**Original Color**

42.7827, 0.2279, 0.2303

**Achromatopsia**

40.1978, 0.3127, 0.3290

**Achromatomaly**

40.5921, 0.2753, 0.2894

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.7827, 0.2279, 0.2303 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(127, 176, 255)` looks like.

```
.text, #text, p{  
    color:rgb(127, 176, 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(127, 176, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 176, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.7827, 0.2279, 0.2303 is called "border". The border property can be set on classes, ids or directly on the HTML element.

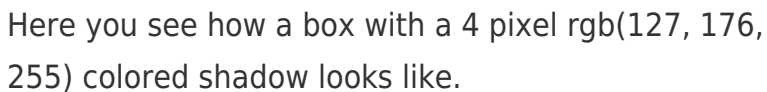
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(127, 176, 255) }
```

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

```
.border{ border-color:rgb(127, 176, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(127, 176, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(127, 176, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(127, 176, 255); box-shadow:4px 4px 4px 4px rgb(127, 176, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.7827, 0.2279, 0.2303 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 176, 255) }
```

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

```
.background{ background-color: rgb(127,  
176, 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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