

# Converting Colors

$Y_{xy}(41.5689, 0.2258, 0.2517)$

Have a look what the booklet for  
Yxy(41.5689, 0.2258, 0.2517)  
contains.

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# Color

**Yxy(41.7000, 0.2259, 0.2524)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68B4ED
RGB	104, 180, 237
RGB Percent	41%, 71%, 93%
CMY	0.5918, 0.2941, 0.0706
CMYK	0.56, 0.24, 0.00, 0.07
HSL	206°, 79%, 67%
HSV	206°, 56%, 93%
XYZ	37.3218, 41.7000, 86.1921
YIQ	163.7740, -63.5930, 1.6150

# Conversions

## Conversions Part 2

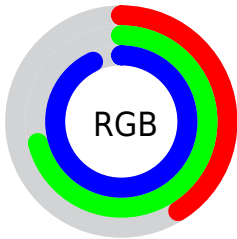
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">104, 152, 237</a>
Decimal	<a href="#">6862061</a>
CIELab	<a href="#">70.66, -7.41, -35.59</a>
CIELCh	<a href="#">71, 36.355, 258.236</a>
Yxy	<a href="#">41.7000, 0.2259, 0.2524</a>
Android (android.graphics.Color)	<a href="#">4285052141 (0xFF68B4ED)</a>
YUV	<a href="#">163.7740, 36.1004, -52.4218</a>
Hunter-Lab	<a href="#">64.5755, -9.8420, -33.9344</a>

# Details

The Yxy color **41.7000, 0.2259, 0.2524** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **44.5231, 0.4411, 0.3913**, and the grayscale version is **36.8695, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.9974, 0.2589, 0.3075**, and **18.8723, 0.2028, 0.2302** is the 20% darker color. If you saturate the color by 10%, you get **36.5215, 0.2128, 0.2358**, and if you desaturate by 10%, it is **47.5809, 0.2404, 0.2685**.

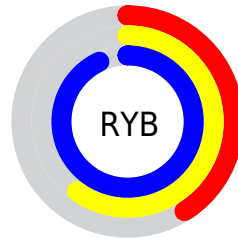
# Distribution



Red (41%)

Green (71%)

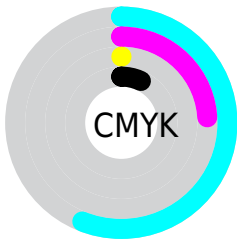
Blue (93%)



Red (41%)

Yellow (60%)

Blue (93%)

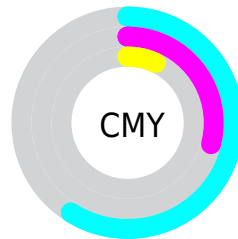


Cyan (56%)

Magenta (24%)

Yellow (0%)

Black (7%)



Cyan (59%)

Magenta (29%)

Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.7000, 0.2259, 0.2524 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 41.7000, 0.2259, 0.2524 by changing the saturation by 10% instead.



■ 41.7000, 0.2259,  
0.2524

■ 41.7000, 0.2259,  
0.2524

■ 353.2378, 0.2683,  
0.2907

■ 28.8665, 0.2158,  
0.2430

■ 77.7454, 0.2410,  
0.2662

■ 18.9798, 0.2032,  
0.2312

■ 101.7260, 0.2467,  
0.2714

■ 11.6557, 0.1871,  
0.2159

■ 130.1911, 0.2517,  
0.2759

■ 6.5097, 0.1660,  
0.1954

■ 163.5251, 0.2559,  
0.2797

■ 3.1574, 0.1376,  
0.1672

■ 202.1124, 0.2596,  
0.2830

■ 1.2145, 0.0990,  
0.1272

■ 246.3373, 0.2629,

■ 0.0735, 0.0000,

0.2859

0.0199

296.5843, 0.2658,  
0.2884

0.0000, 0.0000,  
0.0000

41.7000, 0.2259,  
0.2524

41.7000, 0.2259,  
0.2524

36.5215, 0.2128,  
0.2358

47.5809, 0.2404,  
0.2685

32.0002, 0.2015,  
0.2189

54.1964, 0.2558,  
0.2837

28.0908, 0.1924,  
0.2022

61.5812, 0.2716,  
0.2978

24.7369, 0.1856,  
0.1860


69.7665, 0.2876,  
0.3107

23.5399, 0.1833,  
0.1798

78.7812, 0.3034,  
0.3225

 88.6526, 0.3186,  
0.3330

 96.4538, 0.3236,  
0.3427

 98.8937, 0.3232,  
0.3464

# Harmonies

## Analogous

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



41.7000, 0.2176, 0.2799



41.7000, 0.2259, 0.2524



41.7000, 0.2554, 0.2456

# Triad

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



41.7000, 0.2259, 0.2524



41.7000, 0.4000, 0.3228



41.7000, 0.3161, 0.4169

# Complementary

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



41.7000, 0.2259, 0.2524



44.5231, 0.4411, 0.3913

# 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.



41.7000, 0.3669, 0.4235



41.7000, 0.2259, 0.2524



41.7000, 0.4181, 0.3643

# Square

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



41.7000, 0.2259, 0.2524



41.7000, 0.3560, 0.2851



41.7000, 0.4050, 0.4017



41.7000, 0.2668, 0.3790



# Rectangle

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



41.7000, 0.2259, 0.2524



41.7000, 0.2851, 0.2517



41.7000, 0.4050, 0.4017



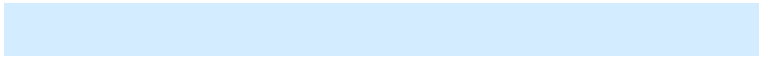
41.7000, 0.3335, 0.4228

# Sweetspot

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



41.7015, 0.2259, 0.2524



81.3916, 0.2860, 0.3095



66.0288, 0.2785, 0.4348



16.9914, 0.2828, 0.3070



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.



41.7015, 0.2259, 0.2524



42.4565, 0.2114, 0.2338



21.3612, 0.2068, 0.1627



15.9772, 0.2981, 0.3186



13.1193, 0.1840, 0.1824



1.2205, 0.1902, 0.2046



# Inverse Universe

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



31.2161, 0.3819, 0.2477



30.9901, 0.4029, 0.2363



73.3488, 0.3992, 0.4533



15.1982, 0.3204, 0.3156



10.8172, 0.4657, 0.2339

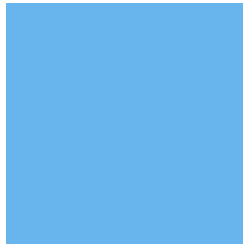


0.8686, 0.4401, 0.2198



# Previews

## White Background



This preview shows how the Yxy color 41.7000, 0.2259, 0.2524 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

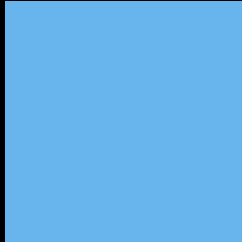
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.7000, 0.2259, 0.2524 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

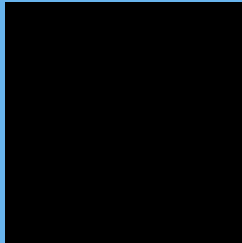
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

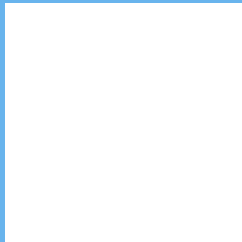
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 41.7000, 0.2259, 0.2524**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.7000, 0.2259, 0.2524.



This preview shows how white text looks on a background with the Yxy color 41.7000, 0.2259, 0.2524.

# 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

41.7000, 0.2259, 0.2524

### Protanopia

41.3752, 0.2574, 0.2534

### Deuteranopia

41.3710, 0.2475, 0.2417



## Tritanopia

41.5557, 0.2382, 0.3052

# Trichromacy



**Original Color**

41.7000, 0.2259, 0.2524

**Protanomaly**

41.3325, 0.2439, 0.2529

**Deuteranomaly**

41.4317, 0.2389, 0.2460

**Tritanomaly**

41.6202, 0.2333, 0.2845

# Monochromacy



**Original Color**

41.7000, 0.2259, 0.2524

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

38.2618, 0.2729, 0.2989

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.7000, 0.2259, 0.2524 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(104, 180, 237)` looks like.

```
.text, #text, p{  
    color:rgb(104, 180, 237)  
}
```

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(104, 180, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 180, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 41.7000, 0.2259, 0.2524 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(104, 180, 237) }
```

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

```
.border{ border-color:rgb(104, 180, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 180, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 180, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 180, 237);  
box-shadow:4px 4px 4px 4px rgb(104, 180,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.7000, 0.2259, 0.2524 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 180, 237) }
```

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

```
.background{ background-color: rgb(104,  
180, 237) }
```

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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