

Converting Colors

$Y_{xy}(45.8104, 0.2237, 0.2475)$

Have a look what the booklet for
Yxy(45.8104, 0.2237, 0.2475)
contains.

Yxy(45.6938, 0.2236, 0.2470)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(45.6938, 0.2236, 0.2470)

Conversions

Conversions Part 1

Format	Color
Hex	6CBBFB
RGB	108, 187, 251
RGB Percent	42%, 73%, 98%
CMY	0.5767, 0.2666, 0.0155
CMYK	0.57, 0.26, 0.00, 0.02
HSL	207°, 95%, 70%
HSV	207°, 57%, 98%
XYZ	41.3649, 45.6938, 97.9364
YIQ	170.6750, -67.6280, 3.1560

Conversions

Conversions Part 2

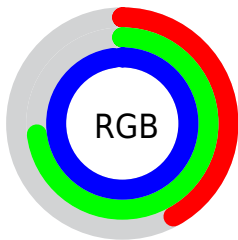
Format	Color
R _Y B	108, 159, 251
Decimal	7126011
CIE Lab	73.35, -6.21, -39.01
CIE LCh	73, 39.504, 260.963
Yxy	45.6938, 0.2236, 0.2470
Android (android.graphics.Color)	4285316091 (0xFF6CBBFB)
YUV	170.6750, 39.6002, -54.9660
Hunter-Lab	67.5972, -9.0651, -38.5827

Details

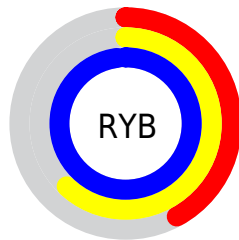
The Yxy color **45.6938, 0.2236, 0.2470** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **51.0871, 0.4426, 0.3950**, and the grayscale version is **40.3701, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6460, 0.2625, 0.3156**, and **21.3573, 0.2016, 0.2258** is the 20% darker color. If you saturate the color by 10%, you get **39.7616, 0.2104, 0.2295**, and if you desaturate by 10%, it is **52.4549, 0.2382, 0.2640**.

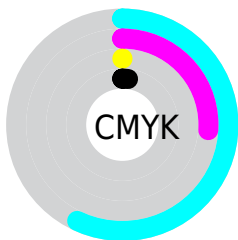
Distribution



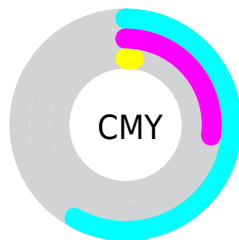
- Red (42%)
- Green (73%)
- Blue (98%)



- Red (42%)
- Yellow (62%)
- Blue (98%)



- Cyan (57%)
- Magenta (26%)
- Yellow (0%)
- Black (2%)



- Cyan (58%)
- Magenta (27%)
- Yellow (2%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6938, 0.2236, 0.2470 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 45.6938, 0.2236, 0.2470 by changing the saturation by 10% instead.

■ 45.6938, 0.2236,
0.2470

■ 45.6938, 0.2236,
0.2470

■ 369.5763, 0.2664,
0.2871

■ 32.0043, 0.2136,
0.2375

■ 83.7606, 0.2386,
0.2612

■ 21.3648, 0.2013,
0.2256

■ 108.9066, 0.2444,
0.2667

■ 13.3909, 0.1858,
0.2104

■ 138.6402, 0.2494,
0.2714

■ 7.6983, 0.1657,
0.1905

■ 173.3458, 0.2537,
0.2754

■ 3.9025, 0.1392,
0.1638

■ 213.4078, 0.2575,
0.2789

■ 1.6192, 0.1039,
0.1271

■ 259.2106, 0.2608,

■ 0.3705, 0.0350,

0.2820

0.0647

311.1387, 0.2637,
0.2847

■ 0.0000, 0.0000,
0.0000

■ 45.6938, 0.2236,
0.2470

■ 45.6938, 0.2236,
0.2470

■ 39.7616, 0.2104,
0.2295

■ 52.4549, 0.2382,
0.2640

■ 34.6049, 0.1990,
0.2118

■ 60.0836, 0.2538,
0.2800

■ 30.1694, 0.1899,
0.1944

■ 68.6212, 0.2699,
0.2950

■ 26.3859, 0.1831,
0.1776

■ 78.1048, 0.2860,
0.3087

■ 25.3511, 0.1813,
0.1728

■ 88.5686, 0.3019,
0.3211

99.3652, 0.3150,
0.3322

99.7474, 0.3150,
0.3328

Harmonies

Analogous

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



45.6938, 0.2128, 0.2736



45.6938, 0.2236, 0.2470



45.6938, 0.2563, 0.2420

Triad

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



45.6938, 0.2236, 0.2470



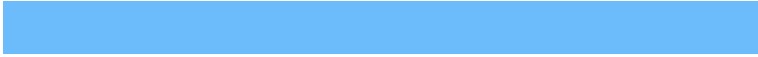
45.6938, 0.4078, 0.3261



45.6938, 0.3109, 0.4197

Complementary

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



45.6938, 0.2236, 0.2470



51.0871, 0.4426, 0.3950

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.



45.6938, 0.3649, 0.4294



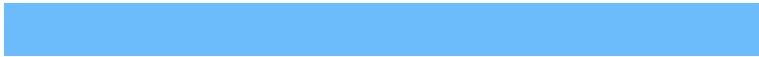
45.6938, 0.2236, 0.2470



45.6938, 0.4238, 0.3695

Square

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



45.6938, 0.2236, 0.2470



45.6938, 0.3632, 0.2861



45.6938, 0.4069, 0.4081



45.6938, 0.2601, 0.3770

Rectangle

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



45.6938, 0.2236, 0.2470



45.6938, 0.2883, 0.2496



45.6938, 0.4069, 0.4081



45.6938, 0.3293, 0.4270

Sweetspot

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



45.6954, 0.2236, 0.2470



80.9284, 0.2860, 0.3087



75.1017, 0.2771, 0.4341



16.8819, 0.2828, 0.3060



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.



45.6954, 0.2236, 0.2470



40.6053, 0.2091, 0.2276



22.9838, 0.2040, 0.1562



18.2334, 0.2980, 0.3181



13.6165, 0.1821, 0.1755



1.4728, 0.1876, 0.1953

Inverse Universe

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



34.8149, 0.3871, 0.2490



30.4254, 0.4092, 0.2385



84.8026, 0.3994, 0.4571



17.3858, 0.3207, 0.3160



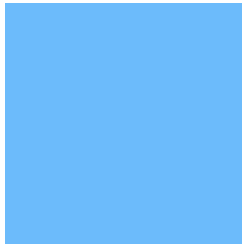
11.7855, 0.4740, 0.2385



1.1129, 0.4506, 0.2256

Previews

White Background



This preview shows how the Yxy color 45.6938, 0.2236, 0.2470 looks on a white background.

Color Contrast Check

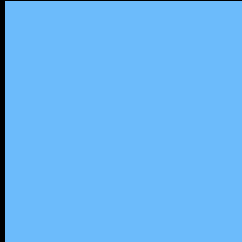
Large Text (above 18pt) WCAG AA × Fail

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 45.6938, 0.2236, 0.2470 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

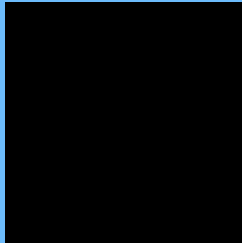
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

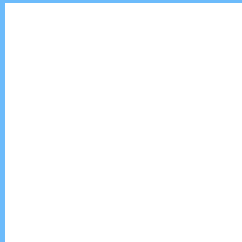
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 45.6938, 0.2236, 0.2470

Background



This preview shows how black text looks on a background with the Yxy color 45.6938, 0.2236, 0.2470.



This preview shows how white text looks on a background with the Yxy color 45.6938, 0.2236, 0.2470.

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

45.6938, 0.2236, 0.2470

Protanopia

45.3889, 0.2537, 0.2482

Deuteranopia

45.2115, 0.2432, 0.2369



Tritanopia

45.9587, 0.2379, 0.3074

Trichromacy



Original Color

45.6938, 0.2236, 0.2470

Protanomaly

45.3643, 0.2411, 0.2477

Deuteranomaly

45.3103, 0.2353, 0.2409

Tritanomaly

45.7322, 0.2324, 0.2835

Monochromacy



Original Color

45.6938, 0.2236, 0.2470

Achromatopsia

40.7240, 0.3127, 0.3290

Achromatomaly

41.9103, 0.2721, 0.2973

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.6938, 0.2236, 0.2470 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(108, 187, 251)` looks like.

```
.text, #text, p{  
    color:rgb(108, 187, 251)  
}
```

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(108, 187, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(108, 187, 251) }
```

Border

The CSS property to change the border of an element to Yxy 45.6938, 0.2236, 0.2470 is called "border". The border property can be set on classes, ids or directly on the HTML element.

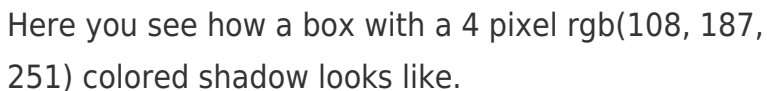
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(108, 187, 251) }
```

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

```
.border{ border-color:rgb(108, 187, 251) }
```

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



Here you see how a box with a 4 pixel `rgb(108, 187, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(108, 187, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(108, 187, 251);  
box-shadow:4px 4px 4px 4px rgb(108, 187,  
251) }
```


Background

The CSS property to change the background color of an element to Yxy 45.6938, 0.2236, 0.2470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(108, 187, 251) }
```

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

```
.background{ background-color: rgb(108,  
187, 251) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor