

Converting Colors

$Y_{xy}(45.7910, 0.2238, 0.2566)$

Have a look what the booklet for
Yxy(45.7910, 0.2238, 0.2566)
contains.

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Color

Yxy(45.6971, 0.2234, 0.2557)

Conversions

Conversions Part 1

Format	Color
Hex	64BDF5
RGB	100, 189, 245
RGB Percent	39%, 74%, 96%
CMY	0.6082, 0.2588, 0.0393
CMYK	0.59, 0.23, 0.00, 0.04
HSL	203°, 88%, 68%
HSV	203°, 59%, 96%
XYZ	39.9246, 45.6971, 93.0920
YIQ	168.7730, -71.0200, -1.4520

Conversions

Conversions Part 2

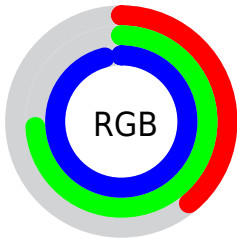
Format	Color
R _{YB}	100, 155, 245
Decimal	6602229
CIE _{Lab}	73.35, -10.66, -35.77
CIE _{LCh}	73, 37.329, 253.400
Y _{xy}	45.6971, 0.2234, 0.2557
Android (android.graphics.Color)	4284792309 (0xFF64BDF5)
Y _{UV}	168.7730, 37.5799, -60.3139
Hunter-Lab	67.5996, -12.8764, -34.3290

Details

The Yxy color **45.6971, 0.2234, 0.2557** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **44.0640, 0.4558, 0.3876**, and the grayscale version is **39.3854, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.1019, 0.2594, 0.3177**, and **21.4419, 0.2010, 0.2355** is the 20% darker color. If you saturate the color by 10%, you get **40.5720, 0.2115, 0.2407**, and if you desaturate by 10%, it is **51.5102, 0.2369, 0.2703**.

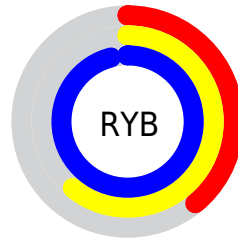
Distribution



Red (39%)

Green (74%)

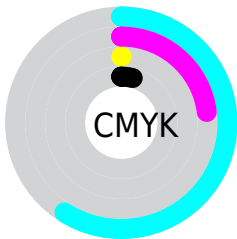
Blue (96%)



Red (39%)

Yellow (61%)

Blue (96%)

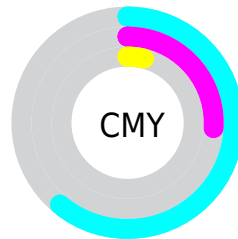


Cyan (59%)

Magenta (23%)

Yellow (0%)

Black (4%)



Cyan (61%)

Magenta (26%)

Yellow (4%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6971, 0.2234, 0.2557 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 45.6971, 0.2234, 0.2557 by changing the saturation by 10% instead.

45.6971, 0.2234,
0.2557

45.6971, 0.2234,
0.2557

369.5895, 0.2663,
0.2921

32.0069, 0.2134,
0.2469

83.7655, 0.2385,
0.2687

21.3667, 0.2010,
0.2358

108.9125, 0.2443,
0.2737

13.3923, 0.1853,
0.2216

138.6471, 0.2493,
0.2779

7.6993, 0.1651,
0.2026

173.3538, 0.2536,
0.2815

3.9031, 0.1382,
0.1766

213.4170, 0.2574,
0.2847

1.6195, 0.1021,
0.1400

259.2211, 0.2607,

0.3707, 0.0186,

0.2875

0.0747

311.1505, 0.2636,
0.2899

0.0000, 0.0000,
0.0000

45.6971, 0.2234,
0.2557

45.6971, 0.2234,
0.2557

40.5720, 0.2115,
0.2407

51.5102, 0.2369,
0.2703

36.0861, 0.2015,
0.2256

58.0453, 0.2515,
0.2841

32.1895, 0.1937,
0.2106

65.3395, 0.2669,
0.2971

28.8061, 0.1879,
0.1961

73.4255, 0.2827,
0.3090

28.5568, 0.1875,
0.1950

82.3335, 0.2984,
0.3199

92.0921, 0.3139,
0.3297

99.3718, 0.3185,
0.3386

Harmonies

Analogous

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



45.6971, 0.2187, 0.2864



45.6971, 0.2234, 0.2557



45.6971, 0.2496, 0.2457

Triad

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



45.6971, 0.2234, 0.2557



45.6971, 0.3940, 0.3164



45.6971, 0.3245, 0.4198

Complementary

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



45.6971, 0.2234, 0.2557



44.0640, 0.4558, 0.3876

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.



45.6971, 0.3740, 0.4212



45.6971, 0.2234, 0.2557



45.6971, 0.4169, 0.3576

Square

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



45.6971, 0.2234, 0.2557



45.6971, 0.3474, 0.2800



45.6971, 0.4087, 0.3961



45.6971, 0.2742, 0.3865

Rectangle

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



45.6971, 0.2234, 0.2557



45.6971, 0.2775, 0.2498



45.6971, 0.4087, 0.3961



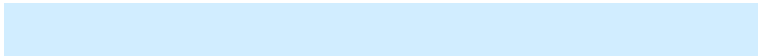
45.6971, 0.3418, 0.4239

Sweetspot

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



45.6987, 0.2234, 0.2557



81.5278, 0.2845, 0.3104



70.3857, 0.2798, 0.4490



16.8713, 0.2799, 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.



45.6987, 0.2234, 0.2557



43.4363, 0.2094, 0.2378



21.9793, 0.2016, 0.1579



17.6215, 0.2980, 0.3196



15.6623, 0.1882, 0.1973



1.5753, 0.1932, 0.2156

Inverse Universe

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



32.1816, 0.3800, 0.2380



29.6602, 0.4003, 0.2263



75.8495, 0.4063, 0.4551



16.6536, 0.3197, 0.3146



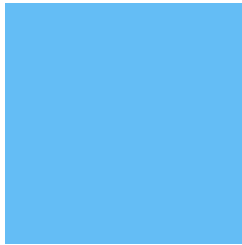
11.6805, 0.4483, 0.2243



1.0467, 0.4280, 0.2131

Previews

White Background



This preview shows how the Yxy color 45.6971, 0.2234, 0.2557 looks on a white background.

Color Contrast Check

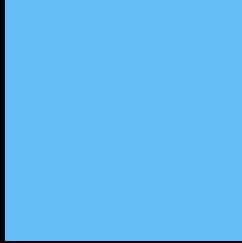
Large Text (above 18pt) WCAG AA × Fail

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 45.6971, 0.2234, 0.2557 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

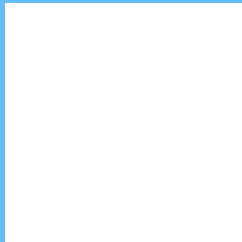
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 45.6971, 0.2234, 0.2557

Background



This preview shows how black text looks on a background with the Yxy color 45.6971, 0.2234, 0.2557.



This preview shows how white text looks on a background with the Yxy color 45.6971, 0.2234, 0.2557.

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

45.6971, 0.2234, 0.2557

Protanopia

45.2869, 0.2598, 0.2560

Deuteranopia

45.3897, 0.2489, 0.2426



Tritanopia

45.6647, 0.2346, 0.3059

Trichromacy



Original Color

45.6971, 0.2234, 0.2557

Protanomaly

44.8552, 0.2441, 0.2551

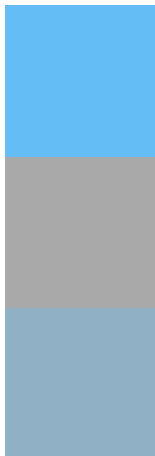
Deuteranomaly

44.9974, 0.2377, 0.2461

Tritanomaly

45.6413, 0.2303, 0.2872

Monochromacy



Original Color

45.6971, 0.2234, 0.2557

Achromatopsia

39.6755, 0.3127, 0.3290

Achromatomaly

41.0112, 0.2710, 0.2996

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.6971, 0.2234, 0.2557 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(100, 189, 245)` looks like.

```
.text, #text, p{  
    color:rgb(100, 189, 245)  
}
```

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(100, 189, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 189, 245) }
```

Border

The CSS property to change the border of an element to Yxy 45.6971, 0.2234, 0.2557 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(100, 189, 245) }
```

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

```
.border{ border-color:rgb(100, 189, 245) }
```

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

Here you see how a box with a 4 pixel rgb(100, 189, 245) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 189, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 189, 245);  
box-shadow:4px 4px 4px 4px rgb(100, 189,  
245) }
```


Background

The CSS property to change the background color of an element to Yxy 45.6971, 0.2234, 0.2557 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 189, 245) }
```

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

```
.background{ background-color: rgb(100,  
189, 245) }
```

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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