

Converting Colors

$Y_{xy}(45.8330, 0.2503, 0.2342)$

Have a look what the booklet for
Yxy(45.8330, 0.2503, 0.2342)
contains.

Yxy(45.9869, 0.2506, 0.2346)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(45.9869, 0.2506, 0.2346)

Conversions

Conversions Part 1

Format	Color
Hex	A6AFFF
RGB	166, 175, 255
RGB Percent	65%, 69%, 100%
CMY	0.3486, 0.3138, 0.0000
CMYK	0.35, 0.31, 0.00, 0.00
HSL	234°, 100%, 83%
HSV	234°, 35%, 100%
XYZ	49.1233, 45.9869, 100.9124
YIQ	181.4290, -31.0440, 22.9720

Conversions

Conversions Part 2

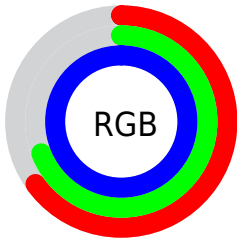
Format	Color
R_{YB}	166, 174, 255
Decimal	10924031
CIE _{Lab}	73.54, 15.32, -40.62
CIE _{LCh}	74, 43.414, 290.662
Yxy	45.9869, 0.2506, 0.2346
Android (android.graphics.Color)	4289114111 (0xFFA6AFFF)
YUV	181.4290, 36.2705, -13.5312
Hunter-Lab	67.8136, 10.6291, -40.7590

Details

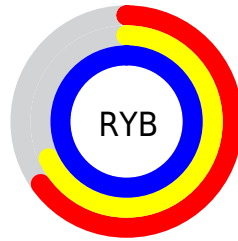
The Yxy color `45.9869, 0.2506, 0.2346` is a light color, and the websafe version is hex `9999FF`. A complement of this color would be `90.0047, 0.3682, 0.4085`, and the grayscale version is `46.2725, 0.3127, 0.3290`.

A 20% lighter version of the original color is `79.5016, 0.2928, 0.3032`, and `21.6226, 0.2341, 0.2124` is the 20% darker color. If you saturate the color by 10%, you get `35.3102, 0.2299, 0.2020`, and if you desaturate by 10%, it is `58.7293, 0.2704, 0.2653`.

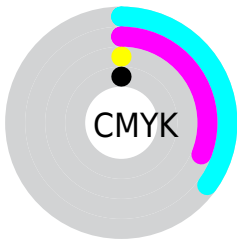
Distribution



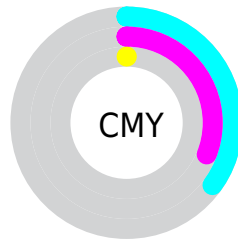
- Red (65%)
- Green (69%)
- Blue (100%)



- Red (65%)
- Yellow (68%)
- Blue (100%)



- Cyan (35%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (35%)
- Magenta (31%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9869, 0.2506, 0.2346 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 45.9869, 0.2506, 0.2346 by changing the saturation by 10% instead.

■ 45.9869, 0.2506,
0.2346

■ 45.9869, 0.2506,
0.2346

■ 370.7560, 0.2812,
0.2790

■ 32.2355, 0.2432,
0.2245

■ 84.1994, 0.2615,
0.2500

■ 21.5414, 0.2340,
0.2120

■ 109.4293, 0.2657,
0.2560

■ 13.5203, 0.2221,
0.1964

■ 139.2541, 0.2693,
0.2612

■ 7.7878, 0.2064,
0.1764

■ 174.0582, 0.2723,
0.2657

■ 3.9595, 0.1849,
0.1502

■ 214.2261, 0.2750,
0.2696

■ 1.6509, 0.1543,
0.1154

■ 260.1421, 0.2773,

■ 0.3916, 0.1110,

0.2731

0.0583

312.1906, 0.2794,
0.2762

0.0000, 0.0000,
0.0000

45.9869, 0.2506,
0.2346

45.9869, 0.2506,
0.2346

35.3102, 0.2299,
0.2020

58.7293, 0.2704,
0.2653

26.5890, 0.2094,
0.1687

73.6376, 0.2887,
0.2932

19.7044, 0.1901,
0.1368

90.8065, 0.3053,
0.3180

14.5237, 0.1737,
0.1084

100.0000, 0.3127,
0.3290

10.8964, 0.1614,
0.0858

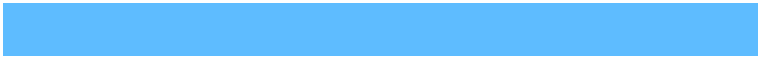
■ 8.6449, 0.1538,
0.0704

■ 7.9349, 0.1515,
0.0653

Harmonies

Analogous

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



45.9869, 0.2157, 0.2398



45.9869, 0.2506, 0.2346



45.9869, 0.3050, 0.2499

Triad

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



45.9869, 0.2506, 0.2346



45.9869, 0.4344, 0.3717



45.9869, 0.2554, 0.3825

Complementary

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



45.9869, 0.2506, 0.2346



90.0047, 0.3682, 0.4085

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.



45.9869, 0.3108, 0.4296



45.9869, 0.2506, 0.2346



45.9869, 0.4157, 0.4142

Square

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



45.9869, 0.2506, 0.2346



45.9869, 0.4168, 0.3248



45.9869, 0.3696, 0.4391



45.9869, 0.2177, 0.3198

Rectangle

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



45.9869, 0.2506, 0.2346



45.9869, 0.3469, 0.2696



45.9869, 0.3696, 0.4391



45.9869, 0.2725, 0.4015

Sweetspot

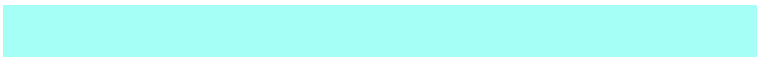
The Sweet Spot groups the original color and five complimentary colors.



45.9873, 0.2506, 0.2346



81.6993, 0.2970, 0.3057



86.2982, 0.2675, 0.3387



16.9765, 0.2947, 0.3021



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.



45.9873, 0.2506, 0.2346



38.1625, 0.2359, 0.2115



47.0374, 0.2747, 0.2309



17.6693, 0.2979, 0.3069



4.2415, 0.1519, 0.0666



0.5055, 0.1555, 0.0796

Inverse Universe

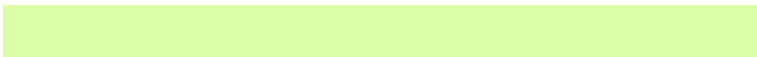
The Inverse Universe completely reimagines the original color for something new.



51.6625, 0.3878, 0.3199



44.8975, 0.4112, 0.3181



89.4051, 0.3412, 0.4237



18.0165, 0.3279, 0.3267



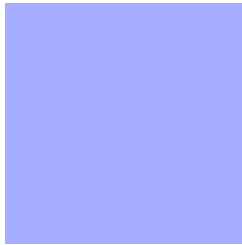
11.1561, 0.6289, 0.3238



1.0956, 0.6076, 0.3121

Previews

White Background



This preview shows how the Yxy color 45.9869, 0.2506, 0.2346 looks on a white background.

Color Contrast Check

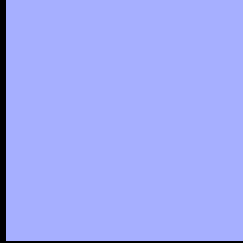
Large Text (above 18pt) WCAG AA × Fail

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 45.9869, 0.2506, 0.2346 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

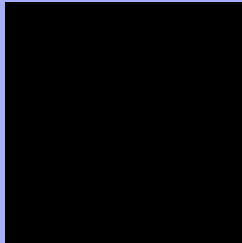
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 45.9869, 0.2506, 0.2346

Background



This preview shows how black text looks on a background with the Yxy color 45.9869, 0.2506, 0.2346.



This preview shows how white text looks on a background with the Yxy color 45.9869, 0.2506, 0.2346.

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

45.9869, 0.2506, 0.2346

Protanopia

46.1287, 0.2448, 0.2368

Deuteranopia

45.8666, 0.2441, 0.2375



Tritanopia

46.1580, 0.2775, 0.3101

Trichromacy



Original Color

45.9869, 0.2506, 0.2346

Protanomaly

46.1379, 0.2471, 0.2361

Deuteranomaly

45.8691, 0.2463, 0.2368

Tritanomaly

45.8923, 0.2669, 0.2800

Monochromacy



Original Color

45.9869, 0.2506, 0.2346

Achromatopsia

46.2077, 0.3127, 0.3290

Achromatomaly

46.0244, 0.2881, 0.2920

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.9869, 0.2506, 0.2346 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(166, 175, 255)` looks like.

```
.text, #text, p{  
    color:rgb(166, 175, 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(166, 175, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 175, 255) }
```

Border

The CSS property to change the border of an element to Yxy 45.9869, 0.2506, 0.2346 is called "border". The border property can be set on classes, ids or directly on the HTML element.

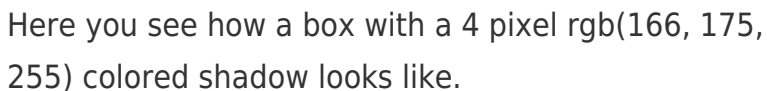
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(166, 175, 255) }
```

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

```
.border{ border-color:rgb(166, 175, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(166, 175, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(166, 175, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(166, 175, 255); box-shadow:4px 4px 4px 4px rgb(166, 175, 255) }
```


Background

The CSS property to change the background color of an element to Yxy 45.9869, 0.2506, 0.2346 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 175, 255) }
```

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

```
.background{ background-color: rgb(166,  
175, 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](#).

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