

# Converting Colors

$Y_{xy}(50.9772, 0.2184, 0.1785)$

Have a look what the booklet for  
Yxy(50.9772, 0.2184, 0.1785)  
contains.

<b>Yxy(45.5991, 0.2504, 0.2334)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(45.5991, 0.2504, 0.2334)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6AEFF
RGB	166, 174, 255
RGB Percent	65%, 68%, 100%
CMY	0.3489, 0.3177, 0.0000
CMYK	0.35, 0.32, 0.00, 0.00
HSL	235°, 100%, 83%
HSV	235°, 35%, 100%
XYZ	48.9204, 45.5991, 100.8494
YIQ	180.8420, -30.7690, 23.4950

# Conversions

## Conversions Part 2

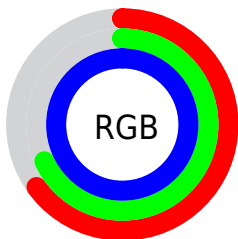
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">166, 173, 255</a>
Decimal	<a href="#">10923775</a>
CIELab	<a href="#">73.28, 15.85, -41.02</a>
CIELCh	<a href="#">73, 43.973, 291.132</a>
Yxy	<a href="#">45.5991, 0.2504, 0.2334</a>
Android (android.graphics.Color)	<a href="#">4289113855 (0xFFA6AEFF)</a>
YUV	<a href="#">180.8420, 36.5599, -13.0164</a>
Hunter-Lab	<a href="#">67.5271, 11.1428, -41.2786</a>

# Details

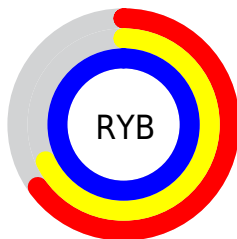
The Yxy color **45.5991, 0.2504, 0.2334** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **90.5670, 0.3679, 0.4093**, and the grayscale version is **45.9328, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.9466, 0.2928, 0.3022**, and **21.3758, 0.2338, 0.2108** is the 20% darker color. If you saturate the color by 10%, you get **34.9012, 0.2296, 0.2004**, and if you desaturate by 10%, it is **58.3948, 0.2703, 0.2645**.

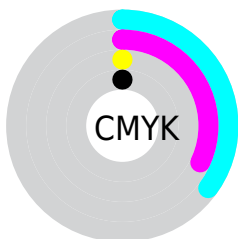
# Distribution



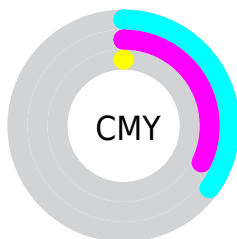
- Red (65%)
- Green (68%)
- Blue (100%)



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



- Cyan (35%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)




- Cyan (35%)
- Magenta (32%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.5991, 0.2504, 0.2334 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 45.5991, 0.2504, 0.2334 by changing the saturation by 10% instead.




 45.5991, 0.2504,  
0.2334


 45.5991, 0.2504,  
0.2334


369.1945, 0.2812,  
0.2784

 31.9296, 0.2430,  
0.2231


 83.6187, 0.2614,  
0.2490

 21.3077, 0.2337,  
0.2105


 108.7376, 0.2656,  
0.2551

 13.3491, 0.2218,  
0.1948


138.4417, 0.2692,  
0.2603

 7.6694, 0.2059,  
0.1746

173.1154, 0.2722,  
0.2649

 3.8841, 0.1842,  
0.1482

213.1432, 0.2749,  
0.2689

 1.6090, 0.1534,  
0.1132

258.9093, 0.2773,

 0.3636, 0.1098,

0.2724

0.0545

310.7983, 0.2793,  
0.2755

0.0000, 0.0000,  
0.0000

45.5991, 0.2504,  
0.2334

45.5991, 0.2504,  
0.2334

34.9012, 0.2296,  
0.2004

58.3948, 0.2703,  
0.2645

26.1880, 0.2089,  
0.1669

73.3913, 0.2887,  
0.2927

19.3370, 0.1897,  
0.1348

90.6859, 0.3053,  
0.3179

14.2117, 0.1732,  
0.1065

100.0000, 0.3127,  
0.3290

10.6567, 0.1609,  
0.0842

■ 8.4881, 0.1535,  
0.0693

■ 7.8244, 0.1513,  
0.0645

# Harmonies

## Analogous

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



45.5991, 0.2147, 0.2383



45.5991, 0.2504, 0.2334



45.5991, 0.3059, 0.2492

# Triad

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



45.5991, 0.2504, 0.2334



45.5991, 0.4362, 0.3729



45.5991, 0.2538, 0.3824

# Complementary

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



45.5991, 0.2504, 0.2334



90.5670, 0.3679, 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.



45.5991, 0.3097, 0.4309



45.5991, 0.2504, 0.2334



45.5991, 0.4166, 0.4159

# Square

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



45.5991, 0.2504, 0.2334



45.5991, 0.4190, 0.3253



45.5991, 0.3695, 0.4410



45.5991, 0.2159, 0.3186



# Rectangle

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



45.5991, 0.2504, 0.2334



45.5991, 0.3484, 0.2694



45.5991, 0.3695, 0.4410



45.5991, 0.2710, 0.4019

# Sweetspot

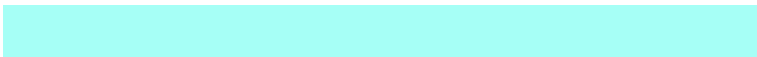
The Sweet Spot groups the original color and five complimentary colors.



45.5994, 0.2504, 0.2334



81.5491, 0.2970, 0.3054



86.2915, 0.2675, 0.3387



16.9405, 0.2947, 0.3018



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.



45.5994, 0.2504, 0.2334



37.7801, 0.2357, 0.2101



47.0111, 0.2747, 0.2308



17.6386, 0.2979, 0.3066



4.1763, 0.1516, 0.0657



0.4910, 0.1549, 0.0776



# Inverse Universe

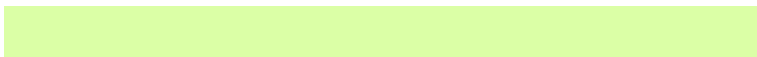
The Inverse Universe completely reimagines the original color for something new.



51.6025, 0.3888, 0.3209



44.8589, 0.4123, 0.3192



89.3993, 0.3413, 0.4238



18.0134, 0.3280, 0.3269



11.1496, 0.6304, 0.3246

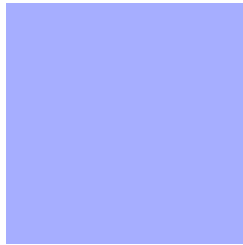


1.0941, 0.6108, 0.3139



# Previews

## White Background



This preview shows how the Yxy color 45.5991, 0.2504, 0.2334 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

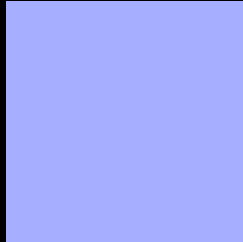
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.5991, 0.2504, 0.2334 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

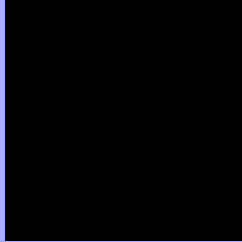
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.5991, 0.2504, 0.2334**

## Background



This preview shows how black text looks on a background with the Yxy color 45.5991, 0.2504, 0.2334.

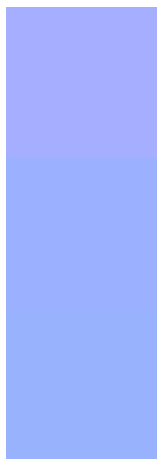


This preview shows how white text looks on a background with the Yxy color 45.5991, 0.2504, 0.2334.

# 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

45.5991, 0.2504, 0.2334

### Protanopia

45.6328, 0.2440, 0.2354

### Deuteranopia

45.7689, 0.2434, 0.2373



## Tritanopia

45.6404, 0.2767, 0.3087

# Trichromacy



## Original Color

45.5991, 0.2504, 0.2334

## Protanomaly

45.6416, 0.2463, 0.2348

## Deuteranomaly

45.8691, 0.2463, 0.2368

## Tritanomaly

45.4842, 0.2668, 0.2787

# Monochromacy



## Original Color

45.5991, 0.2504, 0.2334

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

45.6250, 0.2881, 0.2907

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.5991, 0.2504, 0.2334 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, 174, 255)` looks like.

```
.text, #text, p{  
    color:rgb(166, 174, 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, 174, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 174, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.5991, 0.2504, 0.2334 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, 174, 255) }
```

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

```
.border{ border-color:rgb(166, 174, 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, 174, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 174, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 174, 255);  
box-shadow:4px 4px 4px 4px rgb(166, 174,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.5991, 0.2504, 0.2334 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 174, 255) }
```

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

```
.background{ background-color: rgb(166,  
174, 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