

# Converting Colors

$Y_{xy}(45.3515, 0.2353, 0.2370)$

Have a look what the booklet for  
Yxy(45.3515, 0.2353, 0.2370)  
contains.

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# Color

**Yxy(45.3515, 0.2353, 0.2370)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8BB4FF
RGB	139, 180, 255
RGB Percent	55%, 71%, 100%
CMY	0.4546, 0.2942, 0.0000
CMYK	0.45, 0.29, 0.00, 0.00
HSL	219°, 100%, 77%
HSV	219°, 45%, 100%
XYZ	45.0262, 45.3515, 100.9788
YIQ	176.2910, -48.5110, 14.6330

# Conversions

## Conversions Part 2

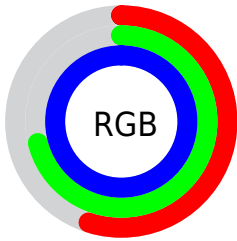
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">139, 169, 255</a>
Decimal	<a href="#">9155839</a>
CIELab	<a href="#">73.12, 5.62, -41.38</a>
CIELCh	<a href="#">73, 41.759, 277.740</a>
Yxy	<a href="#">45.3515, 0.2353, 0.2370</a>
Android (android.graphics.Color)	<a href="#">4287345919 (0xFF8BB4FF)</a>
YUV	<a href="#">176.2910, 38.8035, -32.7042</a>
Hunter-Lab	<a href="#">67.3435, 1.4948, -41.7625</a>

# Details

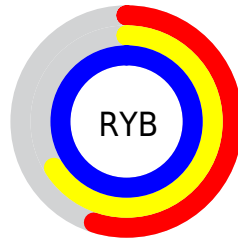
The Yxy color **45.3515, 0.2353, 0.2370** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **71.2568, 0.3981, 0.4055**, and the grayscale version is **43.3966, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.0812, 0.2773, 0.3086**, and **21.2649, 0.2153, 0.2148** is the 20% darker color. If you saturate the color by 10%, you get **37.1374, 0.2178, 0.2122**, and if you desaturate by 10%, it is **54.8738, 0.2532, 0.2606**.

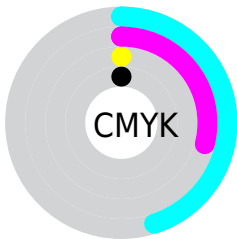
# Distribution



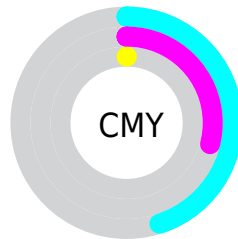
- Red (55%)
- Green (71%)
- Blue (100%)



- Red (55%)
- Yellow (66%)
- Blue (100%)



- Cyan (45%)
- Magenta (29%)
- Yellow (0%)
- Black (0%)



- Cyan (45%)
- Magenta (29%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3515, 0.2353, 0.2370 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 45.3515, 0.2353, 0.2370 by changing the saturation by 10% instead.



■ 45.3515, 0.2353,  
0.2370

■ 45.3515, 0.2353,  
0.2370

368.1953, 0.2729,  
0.2810

■ 31.7344, 0.2264,  
0.2268

■ 83.2476, 0.2486,  
0.2524

■ 21.1587, 0.2154,  
0.2142

■ 108.2954, 0.2537,  
0.2584

■ 13.2401, 0.2013,  
0.1984

137.9222, 0.2581,  
0.2635

■ 7.5941, 0.1830,  
0.1779

172.5124, 0.2619,  
0.2679

■ 3.8363, 0.1584,  
0.1510

212.4505, 0.2652,  
0.2718

■ 1.5824, 0.1247,  
0.1150

258.1207, 0.2681,

■ 0.3457, 0.0727,

0.2752

0.0540

309.9075, 0.2706,  
0.2782

0.0000, 0.0000,  
0.0000

45.3515, 0.2353,  
0.2370

45.3515, 0.2353,  
0.2370

37.1374, 0.2178,  
0.2122

54.8738, 0.2532,  
0.2606

30.1627, 0.2015,  
0.1869

65.7582, 0.2710,  
0.2824

24.3590, 0.1871,  
0.1621

78.0615, 0.2881,  
0.3023

19.6474, 0.1754,  
0.1388

91.8354, 0.3043,  
0.3201

15.9356, 0.1669,  
0.1181

99.9993, 0.3127,  
0.3290

■ 14.5318, 0.1638,  
0.1097

# Harmonies

## Analogous

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



45.3515, 0.2109, 0.2518



45.3515, 0.2353, 0.2370



45.3515, 0.2809, 0.2436

# Triad

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



45.3515, 0.2353, 0.2370



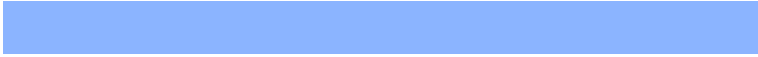
45.3515, 0.4274, 0.3511



45.3515, 0.2791, 0.4036

# Complementary

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



45.3515, 0.2353, 0.2370



71.2568, 0.3981, 0.4055

# 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.



45.3515, 0.3361, 0.4348



45.3515, 0.2353, 0.2370



45.3515, 0.4241, 0.3954

# Square

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



45.3515, 0.2353, 0.2370



45.3515, 0.3956, 0.3062



45.3515, 0.3896, 0.4284



45.3515, 0.2338, 0.3463



# Rectangle

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



45.3515, 0.2353, 0.2370



45.3515, 0.3196, 0.2583



45.3515, 0.3896, 0.4284



45.3515, 0.2975, 0.4180

# Sweetspot

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



45.3532, 0.2353, 0.2370



79.9839, 0.2906, 0.3051



81.7872, 0.2709, 0.3796



16.5154, 0.2870, 0.3010



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.



45.3532, 0.2353, 0.2370



37.4892, 0.2186, 0.2134



32.6293, 0.2366, 0.1896



18.4266, 0.2979, 0.3132



7.8470, 0.1646, 0.1126



0.9605, 0.1709, 0.1351



# Inverse Universe

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



43.0405, 0.3911, 0.2867



36.1540, 0.4172, 0.2790



91.8238, 0.3696, 0.4453



18.0930, 0.3238, 0.3206



11.5201, 0.5572, 0.2843



1.1415, 0.5257, 0.2670



# Previews

## White Background



This preview shows how the Yxy color 45.3515, 0.2353, 0.2370 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

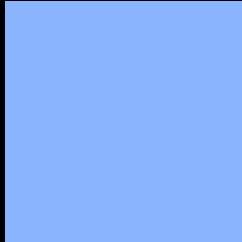
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3515, 0.2353, 0.2370 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

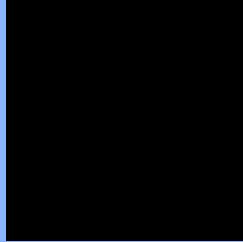
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

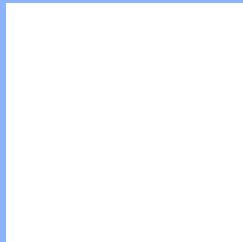
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.3515, 0.2353, 0.2370**

## Background



This preview shows how black text looks on a background with the Yxy color 45.3515, 0.2353, 0.2370.



This preview shows how white text looks on a background with the Yxy color 45.3515, 0.2353, 0.2370.

# 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

45.3515, 0.2353, 0.2370

### Protanopia

45.0475, 0.2453, 0.2371

### Deuteranopia

45.1483, 0.2409, 0.2347



## Tritanopia

45.5947, 0.2559, 0.3080

# Trichromacy



## Original Color

45.3515, 0.2353, 0.2370

## Protanomaly

44.9257, 0.2414, 0.2365

## Deuteranomaly

45.1718, 0.2388, 0.2354

## Tritanomaly

45.1914, 0.2479, 0.2795

# Monochromacy



## Original Color

45.3515, 0.2353, 0.2370

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

43.6386, 0.2800, 0.2920

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3515, 0.2353, 0.2370 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(139, 180, 255)` looks like.

```
.text, #text, p{  
    color:rgb(139, 180, 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(139, 180, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(139, 180, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3515, 0.2353, 0.2370 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(139, 180, 255) }
```

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

```
.border{ border-color:rgb(139, 180, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(139, 180, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(139, 180, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(139, 180, 255);  
box-shadow:4px 4px 4px 4px rgb(139, 180,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3515, 0.2353, 0.2370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(139, 180, 255) }
```

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

```
.background{ background-color: rgb(139,  
180, 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](#).

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