

# Converting Colors

$Y_{xy}(44.9040, 0.2232, 0.2390)$

Have a look what the booklet for  
Yxy(44.9040, 0.2232, 0.2390)  
contains.

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# Color

**Yxy(45.0117, 0.2233, 0.2393)**

# Conversions

## Conversions Part 1

Format	Color
Hex	71B8FF
RGB	113, 184, 255
RGB Percent	44%, 72%, 100%
CMY	0.5568, 0.2784, 0.0000
CMYK	0.56, 0.28, 0.00, 0.00
HSL	210°, 100%, 72%
HSV	210°, 56%, 100%
XYZ	42.0021, 45.0117, 101.0835
YIQ	170.8650, -65.1070, 7.0290

# Conversions

## Conversions Part 2

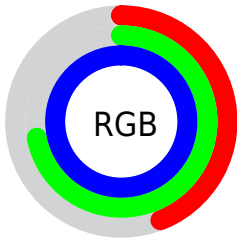
Format	Color
R <sub>YB</sub>	113, 160, 255
Decimal	7452927
CIE <sub>Lab</sub>	72.90, -2.34, -41.83
CIE <sub>LCh</sub>	73, 41.896, 266.794
Yxy	45.0117, 0.2233, 0.2393
Android (android.graphics.Color)	4285643007 (0xFF71B8FF)
YUV	170.8650, 41.4786, -50.7476
Hunter-Lab	67.0908, -5.6590, -42.3668

# Details

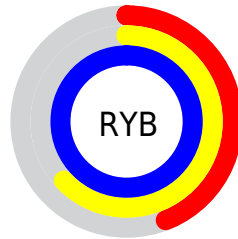
The Yxy color **45.0117, 0.2233, 0.2393** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **56.7426, 0.4338, 0.4011**, and the grayscale version is **40.4691, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4244, 0.2646, 0.3123**, and **20.8907, 0.2009, 0.2159** is the 20% darker color. If you saturate the color by 10%, you get **38.4911, 0.2091, 0.2197**, and if you desaturate by 10%, it is **52.4878, 0.2388, 0.2583**.

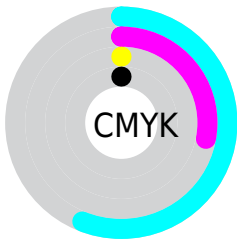
# Distribution



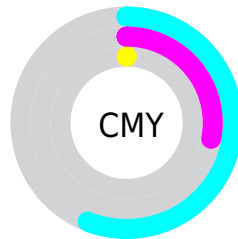
- Red (44%)
- Green (72%)
- Blue (100%)



- Red (44%)
- Yellow (63%)
- Blue (100%)



- Cyan (56%)
- Magenta (28%)
- Yellow (0%)
- Black (0%)




- Cyan (56%)
- Magenta (28%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0117, 0.2233, 0.2393 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 45.0117, 0.2233, 0.2393 by changing the saturation by 10% instead.





 45.0117, 0.2233,  
0.2393

 45.0117, 0.2233,  
0.2393


366.8209, 0.2663,  
0.2828


 31.4666, 0.2133,  
0.2291


 82.7380, 0.2384,  
0.2546

 20.9544, 0.2009,  
0.2165


 107.6880, 0.2443,  
0.2605

 13.0907, 0.1853,  
0.2004


 137.2084, 0.2493,  
0.2656

 7.4910, 0.1651,  
0.1797

171.6837, 0.2536,  
0.2700

 3.7710, 0.1386,  
0.1522

211.4982, 0.2574,  
0.2738

 1.5463, 0.1035,  
0.1153

257.0363, 0.2607,

 0.3210, 0.0401,

0.2771

0.0520

308.6824, 0.2637,  
0.2801

0.0000, 0.0000,  
0.0000

45.0117, 0.2233,  
0.2393

45.0117, 0.2233,  
0.2393

38.4911, 0.2091,  
0.2197

52.4878, 0.2388,  
0.2583

32.8682, 0.1967,  
0.1998

60.9634, 0.2551,  
0.2763

28.0835, 0.1866,  
0.1805

70.4842, 0.2716,  
0.2929

24.0643, 0.1790,  
0.1621

81.0914, 0.2880,  
0.3082

22.5232, 0.1762,  
0.1545

92.8238, 0.3040,  
0.3219

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.0117, 0.2073, 0.2625



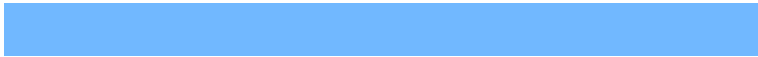
45.0117, 0.2233, 0.2393



45.0117, 0.2618, 0.2384

# Triad

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



45.0117, 0.2233, 0.2393



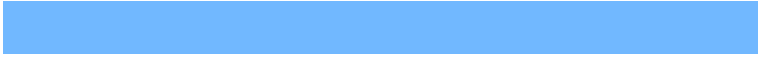
45.0117, 0.4202, 0.3344



45.0117, 0.2992, 0.4198

# Complementary

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



45.0117, 0.2233, 0.2393



56.7426, 0.4338, 0.4011

# 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.



45.0117, 0.3571, 0.4372



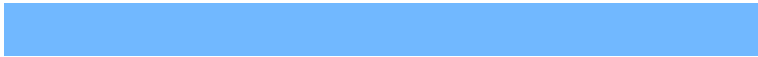
45.0117, 0.2233, 0.2393



45.0117, 0.4301, 0.3800

# Square

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



45.0117, 0.2233, 0.2393



45.0117, 0.3774, 0.2910



45.0117, 0.4056, 0.4190

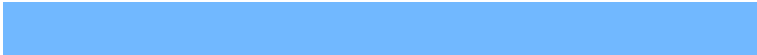


45.0117, 0.2478, 0.3688



# Rectangle

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



45.0117, 0.2233, 0.2393



45.0117, 0.2977, 0.2489



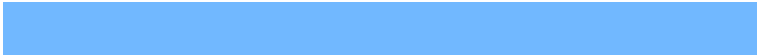
45.0117, 0.4056, 0.4190



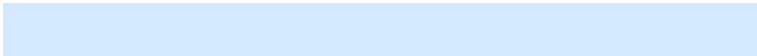
45.0117, 0.3186, 0.4300

# Sweetspot

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



45.0131, 0.2233, 0.2393



79.6252, 0.2859, 0.3062



78.4933, 0.2732, 0.4186



16.5742, 0.2826, 0.3033



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.



45.0131, 0.2233, 0.2393



37.6973, 0.2073, 0.2170



22.5472, 0.2042, 0.1497



18.8782, 0.2979, 0.3168



12.0675, 0.1771, 0.1573



1.3934, 0.1828, 0.1779



# Inverse Universe

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



36.5357, 0.3935, 0.2577



30.5097, 0.4194, 0.2478



93.9727, 0.3930, 0.4618



18.1386, 0.3215, 0.3172



11.9462, 0.4965, 0.2509



1.1852, 0.4710, 0.2368



# Previews

## White Background



This preview shows how the Yxy color 45.0117, 0.2233, 0.2393 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

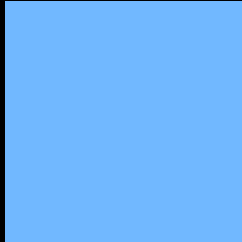
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.0117, 0.2233, 0.2393 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

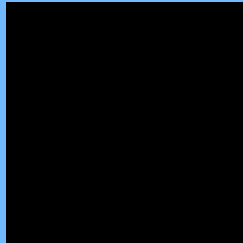
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

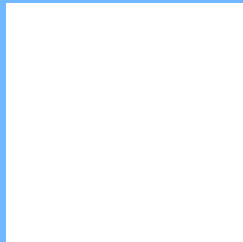
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.0117, 0.2233, 0.2393**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.0117, 0.2233, 0.2393.



This preview shows how white text looks on a background with the Yxy color 45.0117, 0.2233, 0.2393.

# 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

45.0117, 0.2233, 0.2393

### Protanopia

44.8959, 0.2481, 0.2412

### Deuteranopia

44.9602, 0.2397, 0.2344



## Tritanopia

45.1269, 0.2396, 0.3073

# Trichromacy



## Original Color

45.0117, 0.2233, 0.2393

## Protanomaly

44.7807, 0.2375, 0.2399

## Deuteranomaly

45.0134, 0.2331, 0.2365

## Tritanomaly

45.0879, 0.2335, 0.2809

# Monochromacy



## Original Color

45.0117, 0.2233, 0.2393

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

41.7990, 0.2721, 0.2934

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0117, 0.2233, 0.2393 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(113, 184, 255)` looks like.

```
.text, #text, p{  
    color:rgb(113, 184, 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(113, 184, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 184, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0117, 0.2233, 0.2393 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(113, 184, 255) }
```

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

```
.border{ border-color:rgb(113, 184, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(113, 184, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 184, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 184, 255);  
box-shadow:4px 4px 4px 4px rgb(113, 184,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0117, 0.2233, 0.2393 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 184, 255) }
```

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

```
.background{ background-color: rgb(113,  
184, 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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