

# Converting Colors

$Yxy(45.3147, 0.2144, 0.2429)$

Have a look what the booklet for  
Yxy(45.3147, 0.2144, 0.2429)  
contains.

<b>Yxy(45.2127, 0.2144, 0.2426)</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(45.2127, 0.2144, 0.2426)**

# Conversions

## Conversions Part 1

Format	Color
Hex	57BCFF
RGB	87, 188, 255
RGB Percent	34%, 74%, 100%
CMY	0.6589, 0.2627, 0.0001
CMYK	0.66, 0.26, 0.00, 0.00
HSL	204°, 100%, 67%
HSV	204°, 66%, 100%
XYZ	39.9571, 45.2127, 101.1974
YIQ	165.4390, -81.7030, -0.5750

# Conversions

## Conversions Part 2

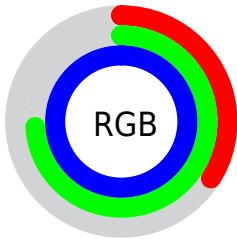
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	87, 150, 255
Decimal	5750015
CIE Lab	73.03, -9.20, -41.68
CIE LCh	73, 42.679, 257.556
Yxy	45.2127, 0.2144, 0.2426
Android (android.graphics.Color)	4283940095 (0xFF57BCFF)
YUV	165.4390, 44.1536, -68.7910
Hunter-Lab	67.2404, -11.5983, -42.1637

# Details

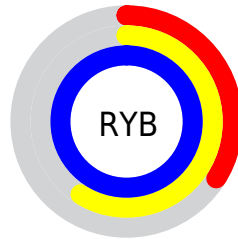
The Yxy color **45.2127, 0.2144, 0.2426** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light muted azure. A complement of this color would be **45.0315, 0.4765, 0.3938**, and the grayscale version is **37.6604, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.5968, 0.2550, 0.3164**, and **21.4052, 0.1948, 0.2211** is the 20% darker color. If you saturate the color by 10%, you get **40.0059, 0.2036, 0.2269**, and if you desaturate by 10%, it is **51.1614, 0.2271, 0.2580**.

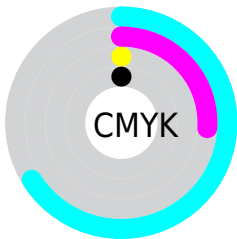
# Distribution



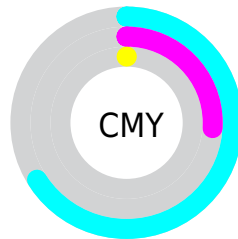
- Red (34%)
- Green (74%)
- Blue (100%)



- Red (34%)
- Yellow (59%)
- Blue (100%)



- Cyan (66%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (66%)
- Magenta (26%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2127, 0.2144, 0.2426 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 45.2127, 0.2144, 0.2426 by changing the saturation by 10% instead.



45.2127, 0.2144,  
0.2426

45.2127, 0.2144,  
0.2426

367.6343, 0.2613,  
0.2850

31.6250, 0.2036,  
0.2325

83.0395, 0.2308,  
0.2577

21.0752, 0.1903,  
0.2200

108.0474, 0.2371,  
0.2634

13.1790, 0.1737,  
0.2041

137.6308, 0.2426,  
0.2683

7.5519, 0.1525,  
0.1833

172.1741, 0.2473,  
0.2726

3.8096, 0.1250,  
0.1556

212.0617, 0.2515,  
0.2763

1.5676, 0.0894,  
0.1182

257.6780, 0.2551,

0.3356, 0.0156,

0.2795

0.0554

309.4074, 0.2584,  
0.2824

0.0000, 0.0000,  
0.0000

45.2127, 0.2144,  
0.2426

45.2127, 0.2144,  
0.2426

40.0059, 0.2036,  
0.2269

51.1614, 0.2271,  
0.2580

35.4822, 0.1949,  
0.2113

57.8945, 0.2412,  
0.2729

31.5771, 0.1884,  
0.1962

65.4557, 0.2563,  
0.2870

30.1120, 0.1861,  
0.1901

73.8833, 0.2720,  
0.3002

83.2131, 0.2879,  
0.3122

■ 93.4783, 0.3036,  
0.3231

99.9977, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.2127, 0.2056, 0.2734



45.2127, 0.2144, 0.2426



45.2127, 0.2467, 0.2351

# Triad

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



45.2127, 0.2144, 0.2426



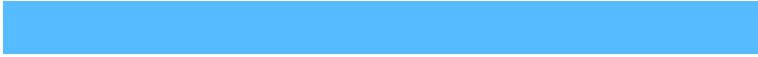
45.2127, 0.4118, 0.3202



45.2127, 0.3170, 0.4312

# Complementary

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



45.2127, 0.2144, 0.2426



45.0315, 0.4765, 0.3938

# 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.



45.2127, 0.3746, 0.4366



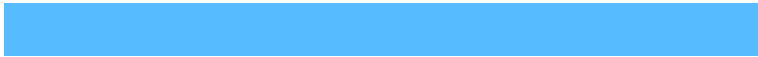
45.2127, 0.2144, 0.2426



45.2127, 0.4329, 0.3666

# Square

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



45.2127, 0.2144, 0.2426



45.2127, 0.3606, 0.2784



45.2127, 0.4180, 0.4096



45.2127, 0.2612, 0.3879



# Rectangle

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



45.2127, 0.2144, 0.2426



45.2127, 0.2798, 0.2418



45.2127, 0.4180, 0.4096



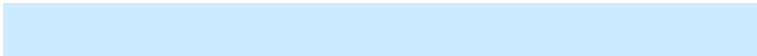
45.2127, 0.3368, 0.4375

# Sweetspot

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



45.2143, 0.2144, 0.2426



79.2867, 0.2813, 0.3074



75.7691, 0.2783, 0.4656



16.4121, 0.2769, 0.3040



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.



45.2143, 0.2144, 0.2426



38.5377, 0.2006, 0.2220



19.6715, 0.1891, 0.1368



19.1953, 0.2979, 0.3193



16.0391, 0.1868, 0.1925



1.7754, 0.1916, 0.2097



# Inverse Universe

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



31.6983, 0.3941, 0.2326



26.9403, 0.4182, 0.2242



81.5677, 0.4152, 0.4654



18.1706, 0.3200, 0.3148



12.3471, 0.4538, 0.2274

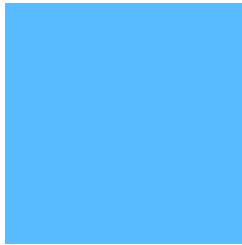


1.2238, 0.4345, 0.2167



# Previews

## White Background



This preview shows how the Yxy color 45.2127, 0.2144, 0.2426 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

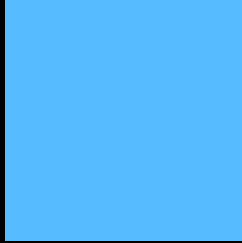
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2127, 0.2144, 0.2426 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

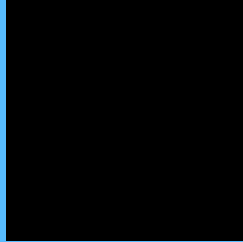
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

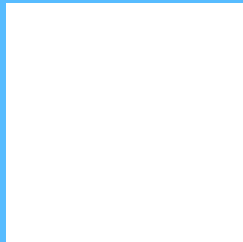
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.2127, 0.2144, 0.2426**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.2127, 0.2144, 0.2426.

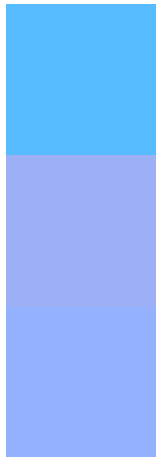


This preview shows how white text looks on a background with the Yxy color 45.2127, 0.2144, 0.2426.

# 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

45.2127, 0.2144, 0.2426

### Protanopia

44.8113, 0.2504, 0.2444

### Deuteranopia

44.9602, 0.2397, 0.2344



## Tritanopia

45.2575, 0.2269, 0.3055

# Trichromacy



**Original Color**

45.2127, 0.2144, 0.2426

**Protanomaly**

44.3876, 0.2343, 0.2422

**Deuteranomaly**

44.7034, 0.2286, 0.2367

**Tritanomaly**

45.0810, 0.2216, 0.2801

# Monochromacy



**Original Color**

45.2127, 0.2144, 0.2426

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

39.2827, 0.2648, 0.2934

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2127, 0.2144, 0.2426 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(87, 188, 255)` looks like.

```
.text, #text, p{  
    color:rgb(87, 188, 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(87, 188, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 188, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2127, 0.2144, 0.2426 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(87, 188, 255) }
```

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

```
.border{ border-color:rgb(87, 188, 255) }
```

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

Here you see how a box with a 4 pixel rgb(87, 188, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 188, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 188, 255);  
box-shadow:4px 4px 4px 4px rgb(87, 188,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2127, 0.2144, 0.2426 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 188, 255) }
```

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

```
.background{ background-color: rgb(87, 188,  
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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