

# Converting Colors

$Y_{xy}(45.6523, 0.2058, 0.2465)$

Have a look what the booklet for  
Yxy(45.6523, 0.2058, 0.2465)  
contains.

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# Color

**Yxy(45.5001, 0.2056, 0.2461)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EC0FF
RGB	46, 192, 255
RGB Percent	18%, 75%, 100%
CMY	0.8209, 0.2470, 0.0001
CMYK	0.82, 0.25, 0.00, 0.00
HSL	198°, 100%, 59%
HSV	198°, 82%, 100%
XYZ	38.0123, 45.5001, 101.3722
YIQ	155.5280, -107.2390, -11.3590

# Conversions

## Conversions Part 2

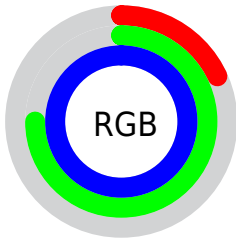
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	46, 132, 255
Decimal	3064063
CIE <sub>Lab</sub>	73.22, -16.19, -41.46
CIE <sub>LCh</sub>	73, 44.511, 248.675
Yxy	45.5001, 0.2056, 0.2461
Android (android.graphics.Color)	4281254143 (0xFF2EC0FF)
YUV	155.5280, 49.0397, -96.0561
Hunter-Lab	67.4538, -17.4538, -41.8858

# Details

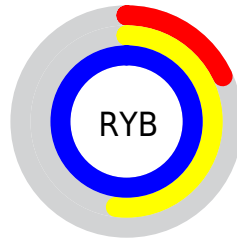
The Yxy color **45.5001, 0.2056, 0.2461** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **32.3091, 0.5498, 0.3767**, and the grayscale version is **32.7972, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.7904, 0.2451, 0.3207**, and **22.5425, 0.1968, 0.2283** is the 20% darker color. If you saturate the color by 10%, you get **41.7976, 0.1996, 0.2346**, and if you desaturate by 10%, it is **49.7313, 0.2137, 0.2577**.

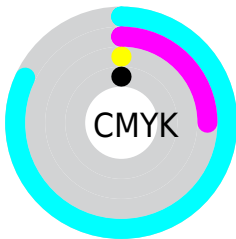
# Distribution



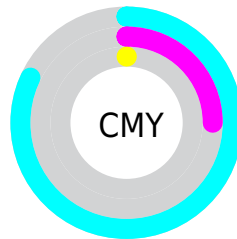
- Red (18%)
- Green (75%)
- Blue (100%)



- Red (18%)
- Yellow (52%)
- Blue (100%)



- Cyan (82%)
- Magenta (25%)
- Yellow (0%)
- Black (0%)



- Cyan (82%)
- Magenta (25%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.5001, 0.2056, 0.2461 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 45.5001, 0.2056, 0.2461 by changing the saturation by 10% instead.



45.5001, 0.2056,  
0.2461

45.5001, 0.2056,  
0.2461

368.7952, 0.2563,  
0.2873

31.8515, 0.1941,  
0.2362

83.4704, 0.2232,  
0.2608

21.2481, 0.1800,  
0.2238

108.5608, 0.2301,  
0.2664

13.3055, 0.1624,  
0.2080

138.2340, 0.2360,  
0.2712

7.6392, 0.1403,  
0.1872

172.8744, 0.2411,  
0.2753

3.8650, 0.1120,  
0.1594

212.8663, 0.2456,  
0.2789

1.5983, 0.0765,  
0.1216

258.5942, 0.2496,

0.3565, 0.0000,

0.2821

0.0593

310.4423, 0.2531,  
0.2848

0.0000, 0.0000,  
0.0000

45.5001, 0.2056,  
0.2461

45.5001, 0.2056,  
0.2461

41.7976, 0.1996,  
0.2346

49.7313, 0.2137,  
0.2577

39.1745, 0.1960,  
0.2257

54.5434, 0.2238,  
0.2692

59.9856, 0.2356,  
0.2804

66.0992, 0.2489,  
0.2912

72.9217, 0.2633,  
0.3014

■ 80.4870, 0.2785,  
0.3109

■ 88.8265, 0.2939,  
0.3196

■ 97.9696, 0.3095,  
0.3275

■ 99.9990, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.5001, 0.2039, 0.2851



45.5001, 0.2056, 0.2461



45.5001, 0.2319, 0.2316

# Triad

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



45.5001, 0.2056, 0.2461



45.5001, 0.4025, 0.3060



45.5001, 0.3352, 0.4417

# Complementary

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



45.5001, 0.2056, 0.2461



32.3091, 0.5498, 0.3767

# 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.



45.5001, 0.3924, 0.4352



45.5001, 0.2056, 0.2461



45.5001, 0.4353, 0.3533

# Square

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



45.5001, 0.2056, 0.2461



45.5001, 0.3435, 0.2658



45.5001, 0.4302, 0.4000



45.5001, 0.2749, 0.4073



# Rectangle

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



45.5001, 0.2056, 0.2461



45.5001, 0.2621, 0.2345



45.5001, 0.4302, 0.4000



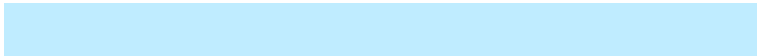
45.5001, 0.3554, 0.4438

# Sweetspot

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



45.5017, 0.2056, 0.2461



78.2189, 0.2740, 0.3082



73.1754, 0.2846, 0.5260



16.1712, 0.2687, 0.3049



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

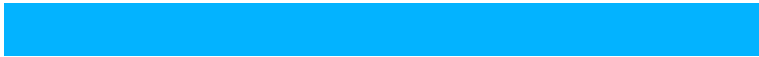


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.5017, 0.2056, 0.2461



39.5032, 0.1965, 0.2268



14.6944, 0.1693, 0.1100



19.5048, 0.2980, 0.3217



20.7467, 0.1966, 0.2276



2.2118, 0.2002, 0.2405



# Inverse Universe

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



26.9917, 0.3945, 0.2059



24.5727, 0.4159, 0.2068



69.1006, 0.4456, 0.4698



18.2018, 0.3184, 0.3125



12.8224, 0.4152, 0.2061

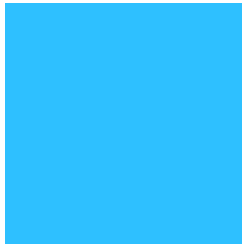


1.2678, 0.4018, 0.1987



# Previews

## White Background



This preview shows how the Yxy color 45.5001, 0.2056, 0.2461 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

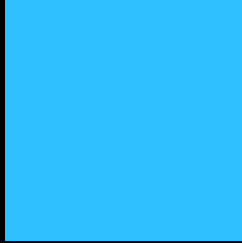
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.5001, 0.2056, 0.2461 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

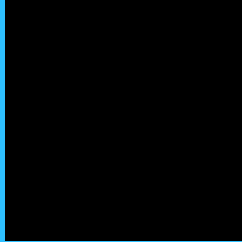
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

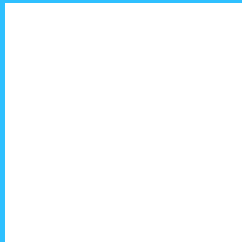
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.5001, 0.2056, 0.2461**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.5001, 0.2056, 0.2461.



This preview shows how white text looks on a background with the Yxy color 45.5001, 0.2056, 0.2461.

# 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

45.5001, 0.2056, 0.2461

### Protanopia

44.8324, 0.2534, 0.2478

### Deuteranopia

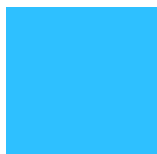
44.9602, 0.2397, 0.2344



## Tritanopia

45.2432, 0.2181, 0.3052

# Trichromacy



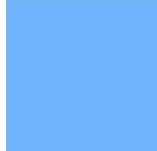
## Original Color

45.5001, 0.2056, 0.2461



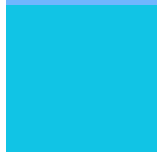
## Protanomaly

44.0228, 0.2285, 0.2455



## Deuteranomaly

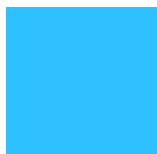
44.0554, 0.2218, 0.2364



## Tritanomaly

45.2562, 0.2126, 0.2821

# Monochromacy



## Original Color

45.5001, 0.2056, 0.2461



## Achromatopsia

32.7778, 0.3127, 0.3290



## Achromatomaly

35.4117, 0.2531, 0.2941

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.5001, 0.2056, 0.2461 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(46, 192, 255)` looks like.

```
.text, #text, p{  
  color:rgb(46, 192, 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(46, 192, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 192, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.5001, 0.2056, 0.2461 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(46, 192, 255) }
```

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

```
.border{ border-color:rgb(46, 192, 255) }
```

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

Here you see how a box with a 4 pixel rgb(46, 192, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 192, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 192, 255);  
box-shadow:4px 4px 4px 4px rgb(46, 192,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.5001, 0.2056, 0.2461 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 192, 255) }
```

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

```
.background{ background-color: rgb(46, 192,  
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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