

# Converting Colors

$Y_{xy}(44.3209, 0.2062, 0.2418)$

Have a look what the booklet for  
Yxy(44.3209, 0.2062, 0.2418)  
contains.

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# Color

**Yxy(44.4559, 0.2064, 0.2422)**

# Conversions

## Conversions Part 1

Format	Color
Hex	38BDFF
RGB	56, 189, 255
RGB Percent	22%, 74%, 100%
CMY	0.7800, 0.2589, 0.0000
CMYK	0.78, 0.26, 0.00, 0.00
HSL	200°, 100%, 61%
HSV	200°, 78%, 100%
XYZ	37.8848, 44.4559, 101.2097
YIQ	156.7570, -100.4540, -7.6700

# Conversions

## Conversions Part 2

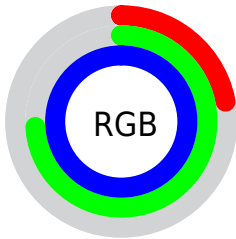
Format	Color
R <sub>YB</sub>	56, 136, 255
Decimal	3718655
CIE <sub>Lab</sub>	72.53, -13.63, -42.55
CIE <sub>LCh</sub>	73, 44.677, 252.231
Y <sub>xy</sub>	44.4559, 0.2064, 0.2422
Android (android.graphics.Color)	4281908735 (0xFF38BDFF)
YUV	156.7570, 48.4338, -88.3639
Hunter-Lab	66.6753, -15.2582, -43.3265

# Details

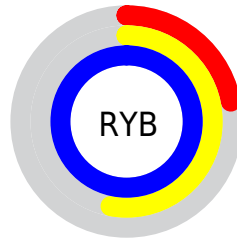
The Yxy color **44.4559, 0.2064, 0.2422** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **35.4928, 0.5293, 0.3839**, and the grayscale version is **33.4271, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.3501, 0.2464, 0.3173**, and **21.6855, 0.1953, 0.2229** is the 20% darker color. If you saturate the color by 10%, you get **40.3623, 0.1991, 0.2294**, and if you desaturate by 10%, it is **49.1359, 0.2158, 0.2551**.

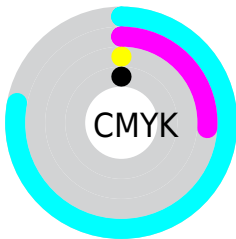
# Distribution



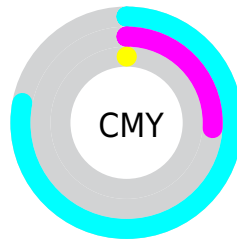
- Red (22%)
- Green (74%)
- Blue (100%)



- Red (22%)
- Yellow (53%)
- Blue (100%)



- Cyan (78%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)




- Cyan (78%)
- Magenta (26%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.4559, 0.2064, 0.2422 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 44.4559, 0.2064, 0.2422 by changing the saturation by 10% instead.





 44.4559, 0.2064,  
0.2422

 44.4559, 0.2064,  
0.2422


364.5654, 0.2569,  
0.2852

 31.0291, 0.1949,  
0.2319


 81.9033, 0.2240,  
0.2575

 20.6210, 0.1807,  
0.2191


 106.6927, 0.2308,  
0.2634

 12.8472, 0.1631,  
0.2027

 136.0384, 0.2367,  
0.2684

 7.3234, 0.1408,  
0.1814

 170.3248, 0.2418,  
0.2727

 3.6652, 0.1124,  
0.1529

209.9363, 0.2463,  
0.2764

 1.4881, 0.0765,  
0.1146

255.2574, 0.2503,

 0.2803, 0.0000,

0.2797

0.0475

306.6723, 0.2538,  
0.2826

■ 0.0000, 0.0000,  
0.0000

■ 44.4559, 0.2064,  
0.2422

■ 44.4559, 0.2064,  
0.2422

■ 40.3623, 0.1991,  
0.2294

■ 49.1359, 0.2158,  
0.2551

■ 36.7839, 0.1938,  
0.2168

■ 54.4555, 0.2271,  
0.2678

■ 36.1099, 0.1929,  
0.2143

■ 60.4605, 0.2400,  
0.2802

■ 67.1914, 0.2542,  
0.2919

■ 74.6848, 0.2692,  
0.3029

■ 82.9745, 0.2847,  
0.3130

■ 92.0919, 0.3003,  
0.3223

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.



44.4559, 0.2017, 0.2785



44.4559, 0.2064, 0.2422



44.4559, 0.2358, 0.2305

# Triad

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



44.4559, 0.2064, 0.2422



44.4559, 0.4093, 0.3111



44.4559, 0.3279, 0.4412

# Complementary

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



44.4559, 0.2064, 0.2422



35.4928, 0.5293, 0.3839

# 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.



44.4559, 0.3870, 0.4390



44.4559, 0.2064, 0.2422



44.4559, 0.4381, 0.3592

# Square

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



44.4559, 0.2064, 0.2422



44.4559, 0.3515, 0.2694



44.4559, 0.4285, 0.4057



44.4559, 0.2679, 0.4018



# Rectangle

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



44.4559, 0.2064, 0.2422



44.4559, 0.2679, 0.2351



44.4559, 0.4285, 0.4057



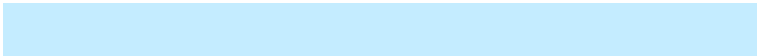
44.4559, 0.3486, 0.4450

# Sweetspot

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



44.4560, 0.2064, 0.2422



78.7268, 0.2769, 0.3080



73.6978, 0.2829, 0.5118



16.2212, 0.2713, 0.3043



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

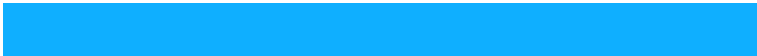


# Same Dimension

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



44.4560, 0.2064, 0.2422



38.1602, 0.1957, 0.2218



15.8169, 0.1735, 0.1165



19.4060, 0.2980, 0.3209



19.1538, 0.1935, 0.2164



2.0657, 0.1974, 0.2307



# Inverse Universe

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



27.7723, 0.3976, 0.2130



24.7231, 0.4209, 0.2115



71.9677, 0.4383, 0.4696



18.1918, 0.3189, 0.3132



12.6615, 0.4271, 0.2126

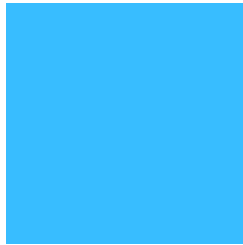


1.2531, 0.4119, 0.2042



# Previews

## White Background



This preview shows how the Yxy color 44.4559, 0.2064, 0.2422 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

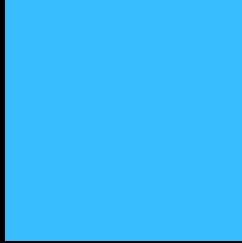
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.4559, 0.2064, 0.2422 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

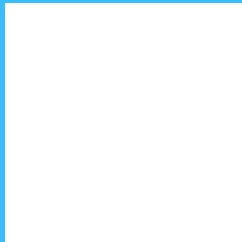
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 44.4559, 0.2064, 0.2422**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.4559, 0.2064, 0.2422.

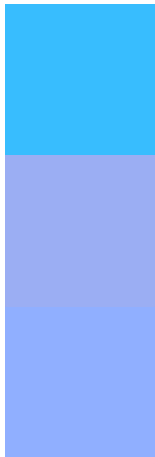


This preview shows how white text looks on a background with the Yxy color 44.4559, 0.2064, 0.2422.

# 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

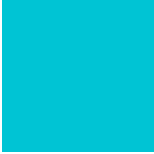
44.4559, 0.2064, 0.2422

### Protanopia

43.8111, 0.2505, 0.2438

### Deuteranopia

43.8092, 0.2370, 0.2313



## **Tritanopia**

44.2333, 0.2181, 0.3050

# Trichromacy



## Original Color

44.4559, 0.2064, 0.2422



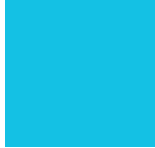
## Protanomaly

42.9487, 0.2287, 0.2416



## Deuteranomaly

43.3073, 0.2217, 0.2339



## Tritanomaly

43.8901, 0.2120, 0.2789

# Monochromacy



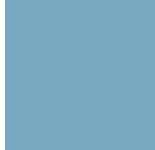
## Original Color

44.4559, 0.2064, 0.2422



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

36.2193, 0.2554, 0.2931

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.4559, 0.2064, 0.2422 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(56, 189, 255)` looks like.

```
.text, #text, p{  
    color:rgb(56, 189, 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(56, 189, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 189, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 44.4559, 0.2064, 0.2422 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(56, 189, 255) }
```

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

```
.border{ border-color:rgb(56, 189, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(56, 189, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 189, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 189, 255);  
box-shadow:4px 4px 4px 4px rgb(56, 189,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.4559, 0.2064, 0.2422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 189, 255) }
```

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

```
.background{ background-color: rgb(56, 189,  
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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