

# Converting Colors

$Y_{xy}(39.2540, 0.2065, 0.2232)$

Have a look what the booklet for  
Yxy(39.2540, 0.2065, 0.2232)  
contains.

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# Color

**Yxy(39.4577, 0.2068, 0.2239)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DAFFF
RGB	77, 175, 255
RGB Percent	30%, 69%, 100%
CMY	0.6980, 0.3137, 0.0000
CMYK	0.70, 0.31, 0.00, 0.00
HSL	207°, 100%, 65%
HSV	207°, 70%, 100%
XYZ	36.4442, 39.4577, 100.3272
YIQ	154.8180, -84.0880, 4.1040

# Conversions

## Conversions Part 2

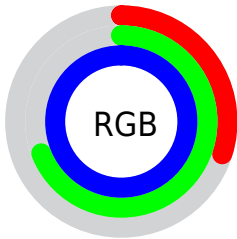
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	77, 140, 255
Decimal	5091327
CIE Lab	69.08, -3.49, -47.93
CIE LCh	69, 48.052, 265.840
Yxy	39.4577, 0.2068, 0.2239
Android (android.graphics.Color)	4283281407 (0xFF4DAFFF)
YUV	154.8180, 49.3897, -68.2464
Hunter-Lab	62.8154, -6.3649, -50.7259

# Details

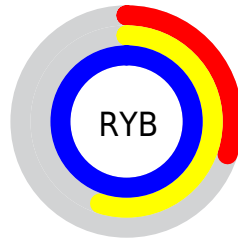
The Yxy color **39.4577, 0.2068, 0.2239** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **45.9145, 0.4812, 0.4043**, and the grayscale version is **32.5000, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.7429, 0.2487, 0.2998**, and **18.2431, 0.1887, 0.1993** is the 20% darker color. If you saturate the color by 10%, you get **34.3221, 0.1960, 0.2062**, and if you desaturate by 10%, it is **45.3863, 0.2196, 0.2416**.

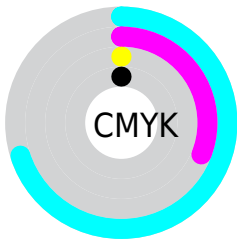
# Distribution



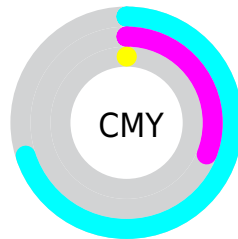
- Red (30%)
- Green (69%)
- Blue (100%)



- Red (30%)
- Yellow (55%)
- Blue (100%)



- Cyan (70%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (70%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.4577, 0.2068, 0.2239 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 39.4577, 0.2068, 0.2239 by changing the saturation by 10% instead.





 39.4577, 0.2068,  
0.2239


 39.4577, 0.2068,  
0.2239


343.8325, 0.2581,  
0.2754

 27.1160, 0.1949,  
0.2118


 74.3370, 0.2248,  
0.2421


 17.6603, 0.1802,  
0.1968


 97.6434, 0.2318,  
0.2491

 10.7064, 0.1618,  
0.1780


 125.3734, 0.2378,  
0.2551

 5.8698, 0.1385,  
0.1538

 157.9115, 0.2430,  
0.2603

 2.7661, 0.1087,  
0.1226

195.6421, 0.2475,  
0.2648

 1.0109, 0.0714,  
0.0829

238.9495, 0.2514,

 0.0000, 0.0000,

0.2687

0.0000

288.2182, 0.2550,  
0.2722

■ 39.4577, 0.2068,  
0.2239

■ 39.4577, 0.2068,  
0.2239

■ 34.3221, 0.1960,  
0.2062

■ 45.3863, 0.2196,  
0.2416

■ 29.9202, 0.1875,  
0.1888

■ 52.1620, 0.2339,  
0.2589

■ 26.1588, 0.1812,  
0.1722

■ 59.8310, 0.2493,  
0.2753

■ 26.0881, 0.1811,  
0.1719

■ 68.4357, 0.2653,  
0.2907

■ 78.0154, 0.2815,  
0.3048

■ 88.6065, 0.2975,  
0.3177

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.



39.4577, 0.1893, 0.2505



39.4577, 0.2068, 0.2239



39.4577, 0.2503, 0.2229

# Triad

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



39.4577, 0.2068, 0.2239



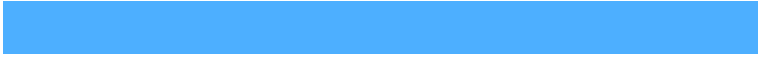
39.4577, 0.4406, 0.3318



39.4577, 0.2974, 0.4414

# Complementary

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



39.4577, 0.2068, 0.2239



45.9145, 0.4812, 0.4043

# 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.



39.4577, 0.3657, 0.4590



39.4577, 0.2068, 0.2239



39.4577, 0.4527, 0.3849

# Square

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



39.4577, 0.2068, 0.2239



39.4577, 0.3879, 0.2823



39.4577, 0.4233, 0.4329



39.4577, 0.2367, 0.3792



# Rectangle

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



39.4577, 0.2068, 0.2239



39.4577, 0.2920, 0.2346



39.4577, 0.4233, 0.4329



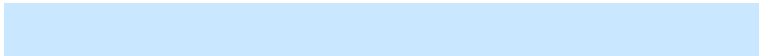
39.4577, 0.3202, 0.4530

# Sweetspot

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



39.4571, 0.2068, 0.2239



76.8128, 0.2795, 0.3032



75.4360, 0.2741, 0.4630



15.8607, 0.2751, 0.2994



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.



39.4571, 0.2068, 0.2239



32.3878, 0.1922, 0.1988



15.9225, 0.1801, 0.1162



19.0357, 0.2979, 0.3180



13.9343, 0.1818, 0.1746



1.5750, 0.1871, 0.1936



# Inverse Universe

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



29.6643, 0.4135, 0.2376



25.3256, 0.4444, 0.2332



85.9774, 0.4141, 0.4768



18.1545, 0.3207, 0.3160



12.1346, 0.4750, 0.2391



1.2035, 0.4526, 0.2267



# Previews

## White Background



This preview shows how the Yxy color 39.4577, 0.2068, 0.2239 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

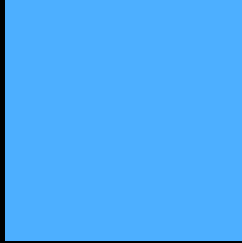
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.4577, 0.2068, 0.2239 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

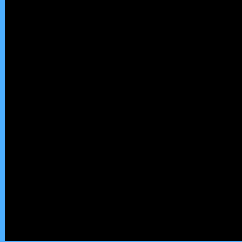
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

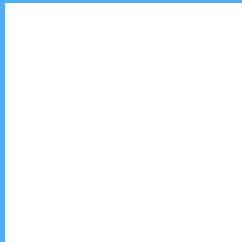
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 39.4577, 0.2068, 0.2239**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.4577, 0.2068, 0.2239.



This preview shows how white text looks on a background with the Yxy color 39.4577, 0.2068, 0.2239.

# 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

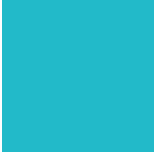
39.4577, 0.2068, 0.2239

### Protanopia

39.1395, 0.2369, 0.2267

### Deuteranopia

39.1425, 0.2240, 0.2182



## **Tritanopia**

39.6749, 0.2215, 0.3056

# Trichromacy



## Original Color

39.4577, 0.2068, 0.2239

## Protanomaly

38.9974, 0.2236, 0.2258

## Deuteranomaly

39.0953, 0.2166, 0.2200

## Tritanomaly

39.3545, 0.2147, 0.2718

# Monochromacy



## Original Color

39.4577, 0.2068, 0.2239

## Achromatopsia

32.7778, 0.3127, 0.3290

## Achromatomaly

34.1143, 0.2602, 0.2856

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.4577, 0.2068, 0.2239 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(77, 175, 255)` looks like.

```
.text, #text, p{  
    color:rgb(77, 175, 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(77, 175, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 175, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 39.4577, 0.2068, 0.2239 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(77, 175, 255) }
```

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

```
.border{ border-color:rgb(77, 175, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 175, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 175, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 175, 255);  
box-shadow:4px 4px 4px 4px rgb(77, 175,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.4577, 0.2068, 0.2239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 175, 255) }
```

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

```
.background{ background-color: rgb(77, 175,  
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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