

# Converting Colors

$Yxy(37.7424, 0.2020, 0.2186)$

Have a look what the booklet for  
Yxy(37.7424, 0.2020, 0.2186)  
contains.

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# Color

**Yxy(37.8150, 0.2021, 0.2188)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40ACFF
RGB	64, 172, 255
RGB Percent	25%, 67%, 100%
CMY	0.7482, 0.3256, 0.0000
CMYK	0.75, 0.33, 0.00, 0.00
HSL	206°, 100%, 63%
HSV	206°, 75%, 100%
XYZ	34.9288, 37.8150, 100.0853
YIQ	149.1700, -91.0110, 2.9170

# Conversions

## Conversions Part 2

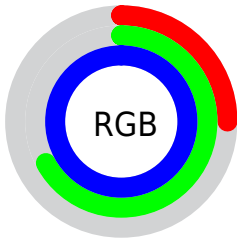
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	64, 133, 255
Decimal	4238591
CIE Lab	67.88, -3.43, -49.83
CIE LCh	68, 49.952, 266.062
Yxy	37.8150, 0.2021, 0.2188
Android (android.graphics.Color)	4282428671 (0xFF40ACFF)
YUV	149.1700, 52.1742, -74.6941
Hunter-Lab	61.4939, -6.2257, -53.4526

# Details

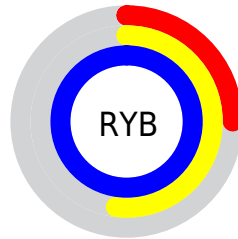
The Yxy color **37.8150, 0.2021, 0.2188** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **42.5675, 0.4988, 0.4034**, and the grayscale version is **29.9566, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.3091, 0.2440, 0.2959**, and **17.5102, 0.1872, 0.1938** is the 20% darker color. If you saturate the color by 10%, you get **33.0955, 0.1927, 0.2018**, and if you desaturate by 10%, it is **43.2772, 0.2137, 0.2360**.

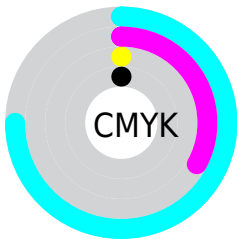
# Distribution



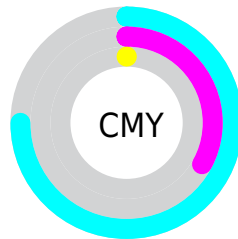
- Red (25%)
- Green (67%)
- Blue (100%)



- Red (25%)
- Yellow (52%)
- Blue (100%)



- Cyan (75%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)




- Cyan (75%)
- Magenta (33%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.8150, 0.2021, 0.2188 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 37.8150, 0.2021, 0.2188 by changing the saturation by 10% instead.





 37.8150, 0.2021,  
0.2188

 37.8150, 0.2021,  
0.2188


336.8257, 0.2558,  
0.2729

 25.8391, 0.1896,  
0.2061

 71.8245, 0.2210,  
0.2379

 16.7033, 0.1743,  
0.1904


 94.6269, 0.2283,  
0.2453

 10.0232, 0.1552,  
0.1707


 121.8070, 0.2345,  
0.2516

 5.4143, 0.1310,  
0.1456

 153.7491, 0.2400,  
0.2570

 2.4924, 0.1004,  
0.1135

190.8376, 0.2447,  
0.2618

 0.8728, 0.0628,  
0.0735

233.4569, 0.2488,

 0.0000, 0.0000,

0.2659

0.0000

281.9915, 0.2525,  
0.2696

■ 37.8150, 0.2021,  
0.2188

■ 37.8150, 0.2021,  
0.2188

■ 33.0955, 0.1927,  
0.2018

■ 43.2772, 0.2137,  
0.2360

■ 29.0532, 0.1855,  
0.1853

■ 49.5385, 0.2271,  
0.2530

■ 27.1812, 0.1825,  
0.1770

■ 56.6469, 0.2418,  
0.2693

■ 64.6461, 0.2574,  
0.2846

■ 73.5759, 0.2734,  
0.2989

■ 83.4735, 0.2895,  
0.3120

■ 94.3736, 0.3053,  
0.3238

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.



37.8150, 0.1837, 0.2460



37.8150, 0.2021, 0.2188



37.8150, 0.2475, 0.2182

# Triad

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



37.8150, 0.2021, 0.2188



37.8150, 0.4478, 0.3317



37.8150, 0.2955, 0.4480

# Complementary

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



37.8150, 0.2021, 0.2188



42.5675, 0.4988, 0.4034

# 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.



37.8150, 0.3672, 0.4662



37.8150, 0.2021, 0.2188



37.8150, 0.4598, 0.3871

# Square

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



37.8150, 0.2021, 0.2188



37.8150, 0.3924, 0.2802



37.8150, 0.4280, 0.4378



37.8150, 0.2323, 0.3813



# Rectangle

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



37.8150, 0.2021, 0.2188



37.8150, 0.2912, 0.2305



37.8150, 0.4280, 0.4378



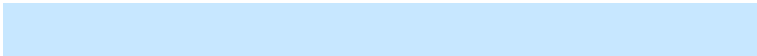
37.8150, 0.3195, 0.4603

# Sweetspot

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



37.8147, 0.2021, 0.2188



76.2714, 0.2780, 0.3027



74.7195, 0.2738, 0.4742



15.7709, 0.2736, 0.2991



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.



37.8147, 0.2021, 0.2188



30.9236, 0.1887, 0.1931



13.6131, 0.1723, 0.1028



19.0807, 0.2979, 0.3184



14.5054, 0.1832, 0.1796



1.6298, 0.1884, 0.1981



# Inverse Universe

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



27.9271, 0.4204, 0.2323



24.3482, 0.4520, 0.2316



85.3035, 0.4187, 0.4826



18.1590, 0.3205, 0.3157



12.1923, 0.4690, 0.2357



1.2091, 0.4474, 0.2238



# Previews

## White Background



This preview shows how the Yxy color 37.8150, 0.2021, 0.2188 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

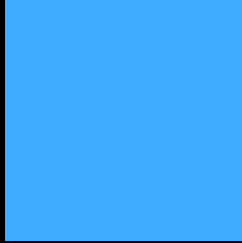
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.8150, 0.2021, 0.2188 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

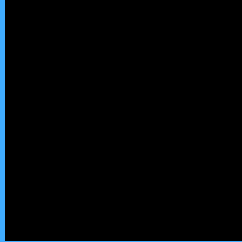
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

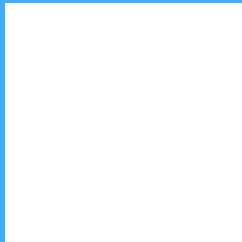
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 37.8150, 0.2021, 0.2188**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.8150, 0.2021, 0.2188.



This preview shows how white text looks on a background with the Yxy color 37.8150, 0.2021, 0.2188.

# 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

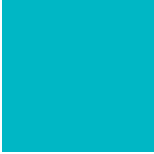
37.8150, 0.2021, 0.2188

### Protanopia

37.2945, 0.2330, 0.2207

### Deuteranopia

37.4839, 0.2191, 0.2132



## **Tritanopia**

37.8982, 0.2185, 0.3066

# Trichromacy



**Original Color**

37.8150, 0.2021, 0.2188

**Protanomaly**

37.0010, 0.2185, 0.2194

**Deuteranomaly**

37.3988, 0.2114, 0.2148

**Tritanomaly**

37.4843, 0.2101, 0.2704

# Monochromacy



**Original Color**

37.8150, 0.2021, 0.2188

**Achromatopsia**

30.0544, 0.3127, 0.3290

**Achromatomaly**

31.5963, 0.2546, 0.2812

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.8150, 0.2021, 0.2188 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(64, 172, 255)` looks like.

```
.text, #text, p{  
    color:rgb(64, 172, 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(64, 172, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 172, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 37.8150, 0.2021, 0.2188 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(64, 172, 255) }
```

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

```
.border{ border-color:rgb(64, 172, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 172, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 172, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 172, 255);  
box-shadow:4px 4px 4px 4px rgb(64, 172,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.8150, 0.2021, 0.2188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 172, 255) }
```

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

```
.background{ background-color: rgb(64, 172,  
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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