

# Converting Colors

$Y_{xy}(31.8311, 0.2268, 0.2076)$

Have a look what the booklet for  
Yxy(31.8311, 0.2268, 0.2076)  
contains.

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# Color

**Yxy(31.8311, 0.2268, 0.2076)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7D94F0
RGB	125, 148, 240
RGB Percent	49%, 58%, 94%
CMY	0.5097, 0.4196, 0.0590
CMYK	0.48, 0.38, 0.00, 0.06
HSL	228°, 79%, 72%
HSV	228°, 48%, 94%
XYZ	34.7750, 31.8311, 86.7229
YIQ	151.6110, -43.2400, 23.7360

# Conversions

## Conversions Part 2

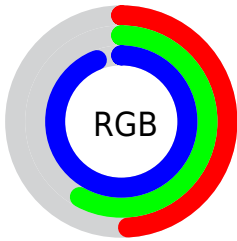
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	125, 144, 240
Decimal	8230128
CIE Lab	63.20, 16.22, -48.83
CIE LCh	63, 51.457, 288.374
Yxy	31.8311, 0.2268, 0.2076
Android (android.graphics.Color)	4286420208 (0xFF7D94F0)
YUV	151.6110, 43.5758, -23.3378
Hunter-Lab	56.4191, 11.2887, -51.6425

# Details

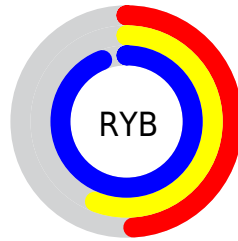
The Yxy color **31.8311, 0.2268, 0.2076** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **69.6286, 0.3941, 0.4258**, and the grayscale version is **31.0497, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.5283, 0.2653, 0.2691**, and **13.3125, 0.2020, 0.1774** is the 20% darker color. If you saturate the color by 10%, you get **24.7060, 0.2076, 0.1774**, and if you desaturate by 10%, it is **40.3940, 0.2464, 0.2371**.

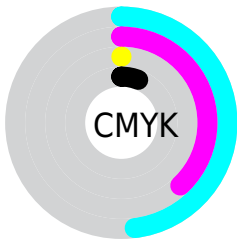
# Distribution



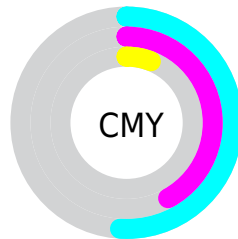
- Red (49%)
- Green (58%)
- Blue (94%)



- Red (49%)
- Yellow (56%)
- Blue (94%)



- Cyan (48%)
- Magenta (38%)
- Yellow (0%)
- Black (6%)




- Cyan (51%)
- Magenta (42%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.8311, 0.2268, 0.2076 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 31.8311, 0.2268, 0.2076 by changing the saturation by 10% instead.





 31.8311, 0.2268,  
0.2076


 31.8311, 0.2268,  
0.2076


310.3491, 0.2709,  
0.2668

 21.2325, 0.2158,  
0.1937


 62.5462, 0.2429,  
0.2285

 13.2941, 0.2020,  
0.1766


 83.4315, 0.2489,  
0.2366

 7.6314, 0.1840,  
0.1552


 108.5146, 0.2540,  
0.2435

 3.8600, 0.1601,  
0.1279

138.1797, 0.2584,  
0.2494

 1.5955, 0.1279,  
0.0935

172.8113, 0.2622,  
0.2546

 0.3546, 0.0855,  
0.0413

212.7939, 0.2655,

 0.0000, 0.0000,

0.2592

0.0000

258.5117, 0.2684,  
0.2632

■ 31.8311, 0.2268,  
0.2076

■ 31.8311, 0.2268,  
0.2076

■ 24.7060, 0.2076,  
0.1774

■ 40.3940, 0.2464,  
0.2371

■ 18.9340, 0.1899,  
0.1479

■ 50.4658, 0.2656,  
0.2648

■ 14.4266, 0.1749,  
0.1208

■ 62.1170, 0.2837,  
0.2902

■ 11.0823, 0.1635,  
0.0979

■ 75.4125, 0.3005,  
0.3129

■ 8.7771, 0.1561,  
0.0805

■ 90.4136, 0.3158,  
0.3330

■ 8.3989, 0.1549,  
0.0775

■ 99.0693, 0.3215,  
0.3435

# Harmonies

## Analogous

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



31.8311, 0.1859, 0.2146



31.8311, 0.2268, 0.2076



31.8311, 0.2951, 0.2254

# Triad

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



31.8311, 0.2268, 0.2076



31.8311, 0.4741, 0.3747



31.8311, 0.2405, 0.4085

# Complementary

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



31.8311, 0.2268, 0.2076



69.6286, 0.3941, 0.4258

# 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.



31.8311, 0.3128, 0.4711



31.8311, 0.2268, 0.2076



31.8311, 0.4495, 0.4323

# Square

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



31.8311, 0.2268, 0.2076



31.8311, 0.4486, 0.3160



31.8311, 0.3893, 0.4739



31.8311, 0.1915, 0.3202



# Rectangle

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



31.8311, 0.2268, 0.2076



31.8311, 0.3507, 0.2489



31.8311, 0.3893, 0.4739



31.8311, 0.2628, 0.4349

# Sweetspot

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



31.8322, 0.2268, 0.2076



76.9552, 0.2904, 0.2993



71.6723, 0.2600, 0.3574



15.7843, 0.2867, 0.2942



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.



31.8322, 0.2268, 0.2076



28.8887, 0.2089, 0.1795



28.3898, 0.2468, 0.1871



15.7401, 0.2980, 0.3095



4.7475, 0.1555, 0.0797



0.5307, 0.1618, 0.1024



# Inverse Universe

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



35.3343, 0.4182, 0.3040



34.1916, 0.4518, 0.3004



76.8310, 0.3580, 0.4571



15.8105, 0.3262, 0.3243



10.2726, 0.6074, 0.3120

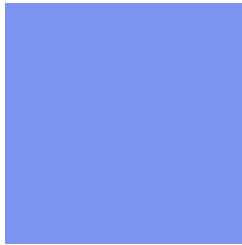


0.8683, 0.5722, 0.2926



# Previews

## White Background



This preview shows how the Yxy color 31.8311, 0.2268, 0.2076 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

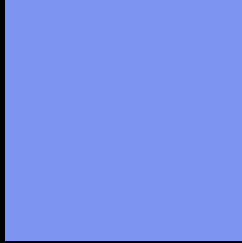
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.8311, 0.2268, 0.2076 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 31.8311, 0.2268, 0.2076**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.8311, 0.2268, 0.2076.



This preview shows how white text looks on a background with the Yxy color 31.8311, 0.2268, 0.2076.

# 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

31.8311, 0.2268, 0.2076

### Protanopia

32.0151, 0.2226, 0.2081

### Deuteranopia

31.7526, 0.2175, 0.2109



## Tritanopia

32.0000, 0.2560, 0.3079

# Trichromacy



## Original Color

31.8311, 0.2268, 0.2076

## Protanomaly

31.9107, 0.2241, 0.2072

## Deuteranomaly

31.8759, 0.2210, 0.2106

## Tritanomaly

31.7482, 0.2441, 0.2656

# Monochromacy



## Original Color

31.8311, 0.2268, 0.2076

## Achromatopsia

31.3989, 0.3127, 0.3290

## Achromatomaly

31.3447, 0.2757, 0.2799

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.8311, 0.2268, 0.2076 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(125, 148, 240)` looks like.

```
.text, #text, p{  
    color:rgb(125, 148, 240)  
}
```

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(125, 148, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(125, 148, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 31.8311, 0.2268, 0.2076 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(125, 148, 240) }
```

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

```
.border{ border-color:rgb(125, 148, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(125, 148, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(125, 148, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(125, 148, 240);  
box-shadow:4px 4px 4px 4px rgb(125, 148,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.8311, 0.2268, 0.2076 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(125, 148, 240) }
```

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

```
.background{ background-color: rgb(125,  
148, 240) }
```

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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