

# Converting Colors

$Y_{xy}(33.1543, 0.2032, 0.2201)$

Have a look what the booklet for  
Yxy(33.1543, 0.2032, 0.2201)  
contains.

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# Color

**Yxy(33.1887, 0.2031, 0.2196)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3FA2F0
RGB	63, 162, 240
RGB Percent	25%, 64%, 94%
CMY	0.7535, 0.3647, 0.0587
CMYK	0.74, 0.33, 0.00, 0.06
HSL	206°, 86%, 59%
HSV	206°, 74%, 94%
XYZ	30.6950, 33.1887, 87.2488
YIQ	141.2910, -84.0420, 3.2700

# Conversions

## Conversions Part 2

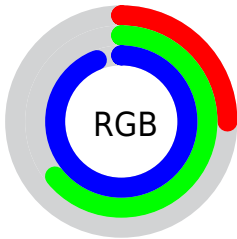
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	63, 126, 240
Decimal	4170480
CIE Lab	64.31, -3.14, -47.29
CIE LCh	64, 47.397, 266.205
Yxy	33.1887, 0.2031, 0.2196
Android (android.graphics.Color)	4282360560 (0xFF3FA2F0)
YUV	141.2910, 48.6635, -68.6612
Hunter-Lab	57.6096, -5.7102, -49.4669

# Details

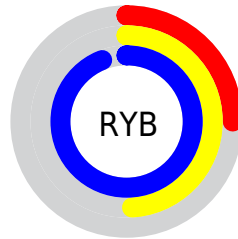
The Yxy color **33.1887, 0.2031, 0.2196** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **37.9046, 0.4941, 0.4041**, and the grayscale version is **26.5737, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.7512, 0.2404, 0.2834**, and **14.8296, 0.1871, 0.1935** is the 20% darker color. If you saturate the color by 10%, you get **28.9968, 0.1933, 0.2024**, and if you desaturate by 10%, it is **38.0398, 0.2150, 0.2370**.

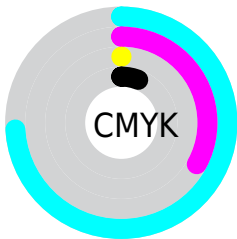
# Distribution



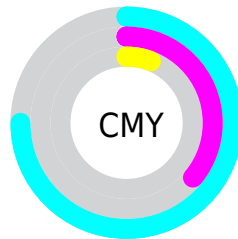
- Red (25%)
- Green (64%)
- Blue (94%)



- Red (25%)
- Yellow (49%)
- Blue (94%)



- Cyan (74%)
- Magenta (33%)
- Yellow (0%)
- Black (6%)




- Cyan (75%)
- Magenta (36%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.1887, 0.2031, 0.2196 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 33.1887, 0.2031, 0.2196 by changing the saturation by 10% instead.





 33.1887, 0.2031,  
0.2196


 33.1887, 0.2031,  
0.2196


316.4992, 0.2576,  
0.2745

 22.2710, 0.1901,  
0.2063


 64.6700, 0.2226,  
0.2393

 14.0562, 0.1739,  
0.1898


 86.0025, 0.2300,  
0.2468

 8.1598, 0.1535,  
0.1687


 111.5753, 0.2363,  
0.2532

 4.1973, 0.1273,  
0.1415

 141.7729, 0.2418,  
0.2587

 1.7846, 0.0939,  
0.1063

176.9797, 0.2465,  
0.2634

 0.4775, 0.0447,  
0.0565

217.5801, 0.2507,

 0.0000, 0.0000,

0.2676

0.0000

263.9585, 0.2543,  
0.2713

■ 33.1887, 0.2031,  
0.2196

■ 33.1887, 0.2031,  
0.2196

■ 28.9968, 0.1933,  
0.2024

■ 38.0398, 0.2150,  
0.2370

■ 25.4046, 0.1858,  
0.1856

■ 43.5939, 0.2286,  
0.2540

■ 23.4329, 0.1821,  
0.1756

■ 49.8938, 0.2435,  
0.2704

■ 56.9768, 0.2591,  
0.2858

■ 64.8773, 0.2752,  
0.3000

■ 73.6274, 0.2912,  
0.3131

■ 83.2571, 0.3069,  
0.3249

■ 93.7946, 0.3220,  
0.3354

■ 99.0730, 0.3214,  
0.3434

# Harmonies

## Analogous

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



33.1887, 0.1847, 0.2465



33.1887, 0.2031, 0.2196



33.1887, 0.2483, 0.2191

# Triad

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



33.1887, 0.2031, 0.2196



33.1887, 0.4468, 0.3321



33.1887, 0.2954, 0.4466

# Complementary

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



33.1887, 0.2031, 0.2196



37.9046, 0.4941, 0.4041

# 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.



33.1887, 0.3666, 0.4650



33.1887, 0.2031, 0.2196



33.1887, 0.4585, 0.3871

# Square

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



33.1887, 0.2031, 0.2196



33.1887, 0.3920, 0.2809



33.1887, 0.4269, 0.4372



33.1887, 0.2328, 0.3805



# Rectangle

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



33.1887, 0.2031, 0.2196



33.1887, 0.2918, 0.2314



33.1887, 0.4269, 0.4372



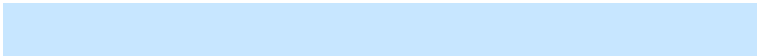
33.1887, 0.3192, 0.4588

# Sweetspot

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



33.1898, 0.2031, 0.2196



76.1060, 0.2780, 0.3024



65.2729, 0.2738, 0.4714



15.7318, 0.2736, 0.2987



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.



33.1898, 0.2031, 0.2196



30.9283, 0.1889, 0.1931



12.3343, 0.1742, 0.1060



16.6962, 0.2980, 0.3183



13.0938, 0.1828, 0.1782



1.2872, 0.1888, 0.1998



# Inverse Universe

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



24.6800, 0.4192, 0.2339



24.4613, 0.4519, 0.2323



74.4953, 0.4176, 0.4813



15.9070, 0.3206, 0.3159



11.1152, 0.4707, 0.2367



0.9447, 0.4455, 0.2228



# Previews

## White Background



This preview shows how the Yxy color 33.1887, 0.2031, 0.2196 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

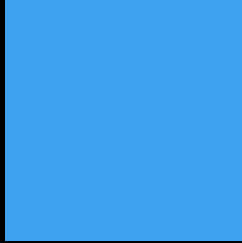
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.1887, 0.2031, 0.2196 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

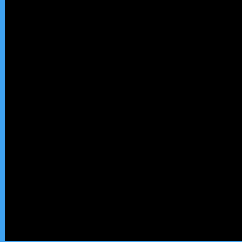
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

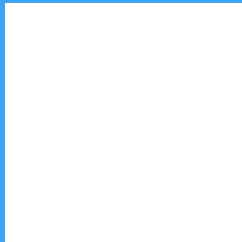
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 33.1887, 0.2031, 0.2196**

## **Background**



This preview shows how black text looks on a background with the Yxy color 33.1887, 0.2031, 0.2196.



This preview shows how white text looks on a background with the Yxy color 33.1887, 0.2031, 0.2196.

# 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

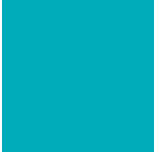
33.1887, 0.2031, 0.2196

### Protanopia

32.8719, 0.2338, 0.2215

### Deuteranopia

33.1047, 0.2186, 0.2125



## **Tritanopia**

33.0502, 0.2181, 0.3053

# Trichromacy



**Original Color**

33.1887, 0.2031, 0.2196

**Protanomaly**

32.7181, 0.2195, 0.2203

**Deuteranomaly**

33.0799, 0.2119, 0.2155

**Tritanomaly**

32.6437, 0.2099, 0.2687

# Monochromacy



**Original Color**

33.1887, 0.2031, 0.2196

**Achromatopsia**

26.6356, 0.3127, 0.3290

**Achromatomaly**

28.1799, 0.2566, 0.2836

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.1887, 0.2031, 0.2196 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(63, 162, 240)` looks like.

```
.text, #text, p{  
    color:rgb(63, 162, 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(63, 162, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 162, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 33.1887, 0.2031, 0.2196 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(63, 162, 240) }
```

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

```
.border{ border-color:rgb(63, 162, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 162, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 162, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 162, 240);  
box-shadow:4px 4px 4px 4px rgb(63, 162,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.1887, 0.2031, 0.2196 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 162, 240) }
```

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

```
.background{ background-color: rgb(63, 162,  
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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