

# Converting Colors

$Y_{xy}(33.4427, 0.2018, 0.2011)$

Have a look what the booklet for  
Yxy(33.4427, 0.2018, 0.2011)  
contains.

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# Color

**Yxy(33.3360, 0.2017, 0.2007)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4F9EFF
RGB	79, 158, 255
RGB Percent	31%, 62%, 100%
CMY	0.6899, 0.3804, 0.0001
CMYK	0.69, 0.38, 0.00, 0.00
HSL	213°, 100%, 65%
HSV	213°, 69%, 100%
XYZ	33.5021, 33.3360, 99.2606
YIQ	145.4370, -78.2210, 13.4190

# Conversions

## Conversions Part 2

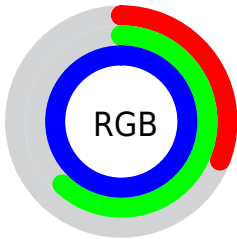
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	79, 134, 255
Decimal	5218047
CIE Lab	64.43, 6.51, -55.25
CIE LCh	64, 55.631, 276.715
Yxy	33.3360, 0.2017, 0.2007
Android (android.graphics.Color)	4283408127 (0xFF4F9EFF)
YUV	145.4370, 54.0146, -58.2652
Hunter-Lab	57.7373, 2.5343, -61.5137

# Details

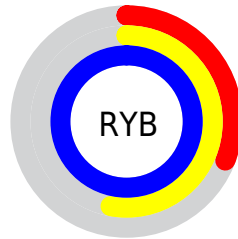
The Yxy color **33.3360, 0.2017, 0.2007** is a light color, and the websafe version is hex **3399FF**. The color can be described as light washed azure. A complement of this color would be **52.8909, 0.4631, 0.4210**, and the grayscale version is **28.3090, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.3267, 0.2454, 0.2780**, and **14.5926, 0.1808, 0.1707** is the 20% darker color. If you saturate the color by 10%, you get **27.9200, 0.1893, 0.1791**, and if you desaturate by 10%, it is **39.7219, 0.2161, 0.2225**.

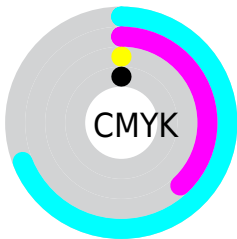
# Distribution



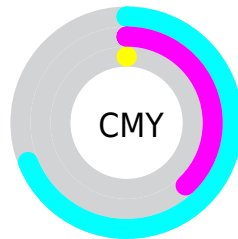
- Red (31%)
- Green (62%)
- Blue (100%)



- Red (31%)
- Yellow (53%)
- Blue (100%)



- Cyan (69%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (69%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.3360, 0.2017, 0.2007 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 33.3360, 0.2017, 0.2007 by changing the saturation by 10% instead.





 33.3360, 0.2017,  
0.2007


 33.3360, 0.2017,  
0.2007


317.1611, 0.2567,  
0.2630


 22.3840, 0.1887,  
0.1863


 64.8998, 0.2212,  
0.2226


 14.1393, 0.1727,  
0.1688


 86.2803, 0.2287,  
0.2310

 8.2176, 0.1527,  
0.1470


 111.9057, 0.2351,  
0.2383

 4.2345, 0.1273,  
0.1200

 142.1605, 0.2406,  
0.2446

 1.8056, 0.0954,  
0.0868

177.4291, 0.2454,  
0.2501

 0.4907, 0.0558,  
0.0438

218.0957, 0.2497,

 0.0000, 0.0000,

0.2549

0.0000

264.5449, 0.2534,  
0.2592

■ 33.3360, 0.2017,  
0.2007

■ 33.3360, 0.2017,  
0.2007

■ 27.9200, 0.1893,  
0.1791

■ 39.7219, 0.2161,  
0.2225

■ 23.4012, 0.1795,  
0.1585

■ 47.1347, 0.2320,  
0.2438

■ 19.6865, 0.1722,  
0.1395

■ 55.6300, 0.2487,  
0.2642

■ 19.3465, 0.1716,  
0.1377

■ 65.2574, 0.2657,  
0.2832

■ 76.0633, 0.2825,  
0.3006

■ 88.0908, 0.2987,  
0.3163

99.9988, 0.3127,  
0.3290

# Harmonies

## Analogous

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



33.3360, 0.1708, 0.2188



33.3360, 0.2017, 0.2007



33.3360, 0.2626, 0.2099

# Triad

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



33.3360, 0.2017, 0.2007



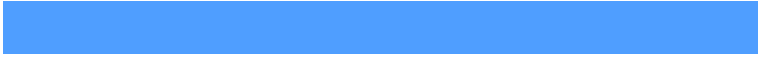
33.3360, 0.4803, 0.3515



33.3360, 0.2633, 0.4469

# Complementary

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



33.3360, 0.2017, 0.2007



52.8909, 0.4631, 0.4210

# 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.



33.3360, 0.3439, 0.4896



33.3360, 0.2017, 0.2007



33.3360, 0.4729, 0.4137

# Square

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



33.3360, 0.2017, 0.2007



33.3360, 0.4326, 0.2921



33.3360, 0.4206, 0.4684



33.3360, 0.2007, 0.3554



# Rectangle

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



33.3360, 0.2017, 0.2007



33.3360, 0.3177, 0.2291



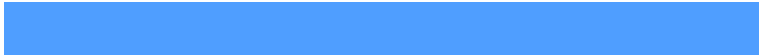
33.3360, 0.4206, 0.4684



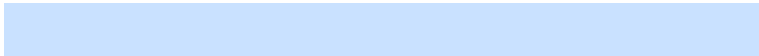
33.3360, 0.2892, 0.4687

# Sweetspot

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



33.3371, 0.2017, 0.2007



73.8093, 0.2791, 0.2972



76.3009, 0.2654, 0.4327



15.1481, 0.2745, 0.2925



0.0000, 0.0000, 0.0000

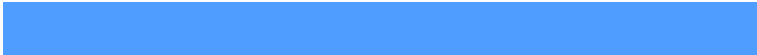


21.4041, 0.3127, 0.3290



# Same Dimension

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



33.3371, 0.2017, 0.2007



26.0096, 0.1851, 0.1707



14.8878, 0.1829, 0.1095



18.7198, 0.2979, 0.3155



10.3986, 0.1724, 0.1407



1.2268, 0.1785, 0.1624



# Inverse Universe

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



29.3262, 0.4370, 0.2552



24.8575, 0.4764, 0.2534



91.7004, 0.4000, 0.4876



18.1226, 0.3223, 0.3184



11.7777, 0.5182, 0.2628



1.1684, 0.4901, 0.2473



# Previews

## White Background



This preview shows how the Yxy color 33.3360, 0.2017, 0.2007 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

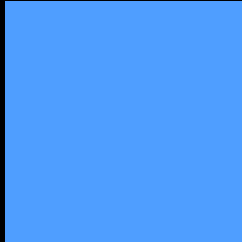
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.3360, 0.2017, 0.2007 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

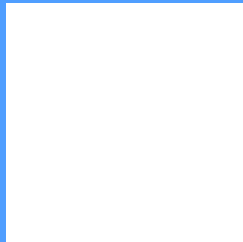
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 33.3360, 0.2017, 0.2007**

## **Background**



This preview shows how black text looks on a background with the Yxy color 33.3360, 0.2017, 0.2007.



This preview shows how white text looks on a background with the Yxy color 33.3360, 0.2017, 0.2007.

# 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

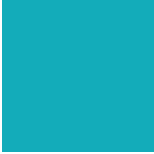
33.3360, 0.2017, 0.2007

### Protanopia

33.1405, 0.2185, 0.2022

### Deuteranopia

33.2722, 0.2059, 0.1994



## Tritanopia

33.1887, 0.2198, 0.3054

# Trichromacy



**Original Color**

33.3360, 0.2017, 0.2007

**Protanomaly**

33.0230, 0.2112, 0.2009

**Deuteranomaly**

33.3602, 0.2042, 0.2002

**Tritanomaly**

32.8120, 0.2105, 0.2607

# Monochromacy



**Original Color**

33.3360, 0.2017, 0.2007

**Achromatopsia**

28.3149, 0.3127, 0.3290

**Achromatomaly**

29.3804, 0.2573, 0.2745

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.3360, 0.2017, 0.2007 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(79, 158, 255)` looks like.

```
.text, #text, p{  
    color:rgb(79, 158, 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(79, 158, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(79, 158, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 33.3360, 0.2017, 0.2007 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(79, 158, 255) }
```

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

```
.border{ border-color:rgb(79, 158, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(79, 158, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(79, 158, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(79, 158, 255);  
box-shadow:4px 4px 4px 4px rgb(79, 158,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.3360, 0.2017, 0.2007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(79, 158, 255) }
```

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

```
.background{ background-color: rgb(79, 158,  
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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