

# Converting Colors

$Y_{xy}(35.3238, 0.2026, 0.1849)$

Have a look what the booklet for  
Yxy(35.3238, 0.2026, 0.1849)  
contains.

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# Color

**Yxy(34.0433, 0.2096, 0.2018)**

# Conversions

## Conversions Part 1

Format	Color
Hex	649DFF
RGB	100, 157, 255
RGB Percent	39%, 62%, 100%
CMY	0.6078, 0.3843, 0.0001
CMYK	0.61, 0.38, 0.00, 0.00
HSL	218°, 100%, 70%
HSV	218°, 61%, 100%
XYZ	35.3591, 34.0433, 99.2958
YIQ	151.1290, -65.4300, 18.3940

# Conversions

## Conversions Part 2

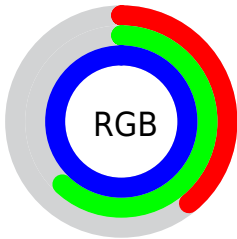
Format	Color
<a href="#">RYB</a>	<a href="#">100, 142, 255</a>
Decimal	<a href="#">6594047</a>
CIELab	<a href="#">65.00, 10.48, -54.30</a>
CIELCh	<a href="#">65, 55.301, 280.923</a>
Yxy	<a href="#">34.0433, 0.2096, 0.2018</a>
Android (android.graphics.Color)	<a href="#">4284784127 (0xFF649DFF)</a>
YUV	<a href="#">151.1290, 51.2084, -44.8401</a>
Hunter-Lab	<a href="#">58.3466, 6.0677, -60.0586</a>

# Details

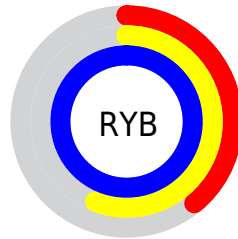
The Yxy color **34.0433, 0.2096, 0.2018** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **62.5522, 0.4333, 0.4254**, and the grayscale version is **30.8043, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.4899, 0.2542, 0.2779**, and **14.4868, 0.1819, 0.1696** is the 20% darker color. If you saturate the color by 10%, you get **27.7113, 0.1944, 0.1771**, and if you desaturate by 10%, it is **41.5519, 0.2264, 0.2264**.

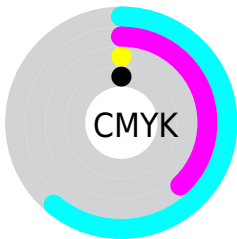
# Distribution



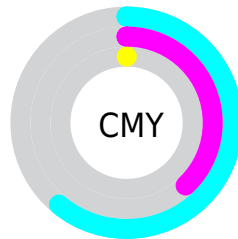
- Red (39%)
- Green (62%)
- Blue (100%)



- Red (39%)
- Yellow (56%)
- Blue (100%)



- Cyan (61%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (61%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.0433, 0.2096, 0.2018 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 34.0433, 0.2096, 0.2018 by changing the saturation by 10% instead.





 34.0433, 0.2096,  
0.2018


 34.0433, 0.2096,  
0.2018


320.3251, 0.2610,  
0.2632


 22.9269, 0.1974,  
0.1877


 66.0010, 0.2279,  
0.2233

 14.5395, 0.1822,  
0.1705


 87.6111, 0.2349,  
0.2316

 8.4969, 0.1631,  
0.1492


 113.4878, 0.2409,  
0.2388

 4.4145, 0.1386,  
0.1227

144.0155, 0.2460,  
0.2450

 1.9080, 0.1073,  
0.0900

179.5788, 0.2505,  
0.2504

 0.5532, 0.0684,  
0.0484

220.5618, 0.2544,

 0.0000, 0.0000,

0.2552

0.0000

267.3491, 0.2579,  
0.2594

■ 34.0433, 0.2096,  
0.2018

■ 34.0433, 0.2096,  
0.2018

■ 27.7113, 0.1944,  
0.1771

■ 41.5519, 0.2264,  
0.2264

■ 22.4806, 0.1815,  
0.1533

■ 50.2985, 0.2440,  
0.2502

■ 18.2696, 0.1716,  
0.1315

■ 60.3437, 0.2618,  
0.2724

■ 15.1863, 0.1649,  
0.1137

■ 71.7427, 0.2792,  
0.2929

■ 84.5473, 0.2958,  
0.3113

98.8061, 0.3115,  
0.3278

99.9986, 0.3127,  
0.3290

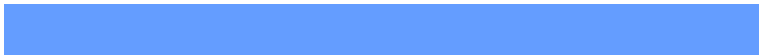
# Harmonies

## Analogous

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



34.0433, 0.1748, 0.2157



34.0433, 0.2096, 0.2018



34.0433, 0.2739, 0.2143

# Triad

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



34.0433, 0.2096, 0.2018



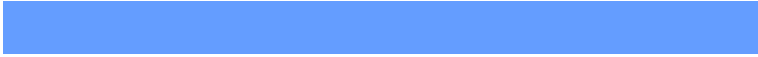
34.0433, 0.4805, 0.3602



34.0433, 0.2538, 0.4343

# Complementary

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



34.0433, 0.2096, 0.2018



62.5522, 0.4333, 0.4254

# 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.



34.0433, 0.3323, 0.4857



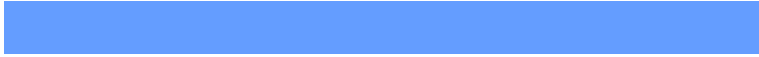
34.0433, 0.2096, 0.2018



34.0433, 0.4661, 0.4215

# Square

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



34.0433, 0.2096, 0.2018



34.0433, 0.4406, 0.3005



34.0433, 0.4099, 0.4726

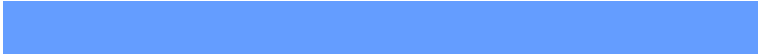


34.0433, 0.1957, 0.3419



# Rectangle

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



34.0433, 0.2096, 0.2018



34.0433, 0.3301, 0.2354



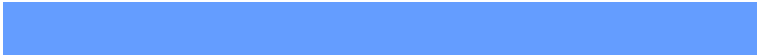
34.0433, 0.4099, 0.4726



34.0433, 0.2787, 0.4584

# Sweetspot

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



34.0444, 0.2096, 0.2018



75.1735, 0.2839, 0.2982



78.1814, 0.2632, 0.4041



15.3252, 0.2789, 0.2926



0.0000, 0.0000, 0.0000

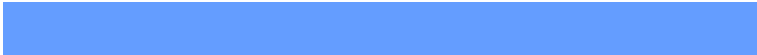


21.4041, 0.3127, 0.3290



# Same Dimension

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



34.0444, 0.2096, 0.2018



26.4625, 0.1913, 0.1717



20.1909, 0.2044, 0.1372



18.4719, 0.2979, 0.3135



8.1965, 0.1658, 0.1167



0.9981, 0.1720, 0.1392



# Inverse Universe

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



32.8053, 0.4316, 0.2730



27.3132, 0.4708, 0.2684



90.4130, 0.3859, 0.4783



18.0975, 0.3236, 0.3203



11.5554, 0.5514, 0.2811



1.1453, 0.5202, 0.2639



# Previews

## White Background



This preview shows how the Yxy color 34.0433, 0.2096, 0.2018 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

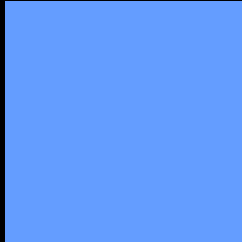
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.0433, 0.2096, 0.2018 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

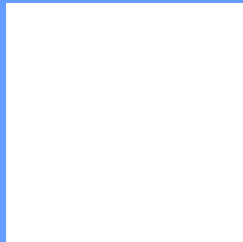
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 34.0433, 0.2096, 0.2018**

## Background



This preview shows how black text looks on a background with the Yxy color 34.0433, 0.2096, 0.2018.



This preview shows how white text looks on a background with the Yxy color 34.0433, 0.2096, 0.2018.

# 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

34.0433, 0.2096, 0.2018

### Protanopia

34.0614, 0.2193, 0.2033

### Deuteranopia

34.2151, 0.2086, 0.2027



## Tritanopia

34.2368, 0.2327, 0.3077

# Trichromacy



**Original Color**

34.0433, 0.2096, 0.2018

**Protanomaly**

33.9793, 0.2155, 0.2026

**Deuteranomaly**

34.2704, 0.2090, 0.2028

**Tritanomaly**

33.9960, 0.2233, 0.2640

# Monochromacy



**Original Color**

34.0433, 0.2096, 0.2018

**Achromatopsia**

30.9469, 0.3127, 0.3290

**Achromatomaly**

31.3621, 0.2638, 0.2749

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.0433, 0.2096, 0.2018 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(100, 157, 255)` looks like.

```
.text, #text, p{  
    color:rgb(100, 157, 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(100, 157, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 157, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 34.0433, 0.2096, 0.2018 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(100, 157, 255) }
```

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

```
.border{ border-color:rgb(100, 157, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 157, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 157, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 157, 255);  
box-shadow:4px 4px 4px 4px rgb(100, 157,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.0433, 0.2096, 0.2018 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 157, 255) }
```

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

```
.background{ background-color: rgb(100,  
157, 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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