

# Converting Colors

$Y_{xy}(27.8631, 0.1938, 0.1970)$

Have a look what the booklet for  
Yxy(27.8631, 0.1938, 0.1970)  
contains.

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# Color

**Yxy(27.8117, 0.1937, 0.1964)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3193F0
RGB	49, 147, 240
RGB Percent	19%, 58%, 94%
CMY	0.8078, 0.4235, 0.0588
CMYK	0.80, 0.39, 0.00, 0.06
HSL	209°, 86%, 57%
HSV	209°, 80%, 94%
XYZ	27.4294, 27.8117, 86.3664
YIQ	128.3000, -88.2610, 8.1470

# Conversions

## Conversions Part 2

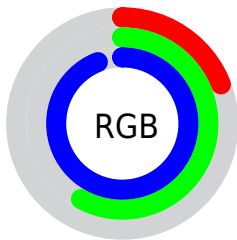
<b>Format</b>	<b>Color</b>
<b>RYB</b>	49, 114, 240
Decimal	3249136
CIELab	59.72, 4.05, -54.59
CIELCh	60, 54.737, 274.238
Yxy	27.8117, 0.1937, 0.1964
Android (android.graphics.Color)	4281439216 (0xFF3193F0)
YUV	128.3000, 55.0681, -69.5461
Hunter-Lab	52.7368, 0.5517, -60.1827

# Details

The Yxy color **27.8117, 0.1937, 0.1964** 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 **38.1017, 0.5013, 0.4137**, and the grayscale version is **21.5261, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.2042, 0.2324, 0.2625**, and **11.9683, 0.1800, 0.1680** is the 20% darker color. If you saturate the color by 10%, you get **23.9138, 0.1847, 0.1778**, and if you desaturate by 10%, it is **32.3979, 0.2051, 0.2156**.

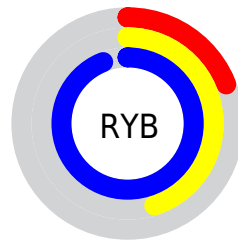
# Distribution



Red (19%)

Green (58%)

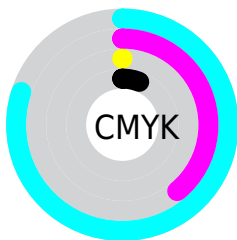
Blue (94%)



Red (19%)

Yellow (45%)

Blue (94%)

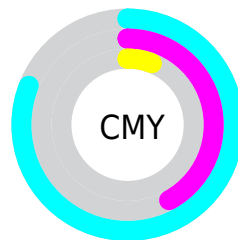


Cyan (80%)

Magenta (39%)

Yellow (0%)

Black (6%)



Cyan (81%)

Magenta (42%)


Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.8117, 0.1937, 0.1964 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 27.8117, 0.1937, 0.1964 by changing the saturation by 10% instead.





 27.8117, 0.1937,  
0.1964

 27.8117, 0.1937,  
0.1964


291.5661, 0.2540,  
0.2627


 18.1838, 0.1792,  
0.1807


 56.1837, 0.2153,  
0.2200

 11.0820, 0.1612,  
0.1613


 75.6965, 0.2236,  
0.2291


 6.1220, 0.1386,  
0.1372


 99.2731, 0.2306,  
0.2368

 2.9194, 0.1100,  
0.1071

 127.2978, 0.2366,  
0.2434

 1.0898, 0.0748,  
0.0707

 160.1551, 0.2418,  
0.2492

 0.0000, 0.0092,  
0.0000

198.2293, 0.2464,

 0.0000, 0.0000,

0.2543

0.0000

241.9048, 0.2504,  
0.2587

■ 27.8117, 0.1937,  
0.1964

■ 27.8117, 0.1937,  
0.1964

■ 23.9138, 0.1847,  
0.1778

■ 32.3979, 0.2051,  
0.2156

■ 20.6197, 0.1779,  
0.1602

■ 37.7245, 0.2184,  
0.2347

■ 20.4902, 0.1776,  
0.1594

■ 43.8398, 0.2333,  
0.2534

■ 50.7860, 0.2492,  
0.2713

■ 58.6018, 0.2655,  
0.2879

■ 67.3229, 0.2818,  
0.3032

■ 76.9826, 0.2979,  
0.3171

■ 87.6126, 0.3134,  
0.3295

■ 97.2918, 0.3217,  
0.3408

# Harmonies

## Analogous

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



27.8117, 0.1645, 0.2172



27.8117, 0.1937, 0.1964



27.8117, 0.2540, 0.2039

# Triad

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



27.8117, 0.1937, 0.1964



27.8117, 0.4857, 0.3462



27.8117, 0.2671, 0.4593

# Complementary

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



27.8117, 0.1937, 0.1964



38.1017, 0.5013, 0.4137

# 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.



27.8117, 0.3513, 0.4976



27.8117, 0.1937, 0.1964



27.8117, 0.4818, 0.4105

# Square

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



27.8117, 0.1937, 0.1964



27.8117, 0.4316, 0.2855



27.8117, 0.4298, 0.4695



27.8117, 0.2002, 0.3647



# Rectangle

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



27.8117, 0.1937, 0.1964



27.8117, 0.3101, 0.2225



27.8117, 0.4298, 0.4695



27.8117, 0.2944, 0.4805

# Sweetspot

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



27.8126, 0.1937, 0.1964



72.6200, 0.2745, 0.2965



64.9113, 0.2699, 0.4701



14.7885, 0.2686, 0.2910



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.



27.8126, 0.1937, 0.1964



25.2038, 0.1806, 0.1676



9.4189, 0.1643, 0.0849



16.5698, 0.2980, 0.3172



11.4835, 0.1784, 0.1622



1.1545, 0.1849, 0.1856



# Inverse Universe

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



22.8312, 0.4457, 0.2405



23.3485, 0.4831, 0.2457



79.2157, 0.4154, 0.4932



15.8942, 0.3213, 0.3169



10.9526, 0.4903, 0.2475



0.9313, 0.4619, 0.2318



# Previews

## White Background



This preview shows how the Yxy color 27.8117, 0.1937, 0.1964 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

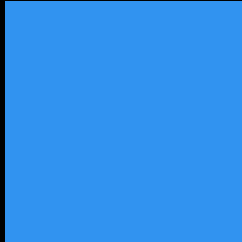
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.8117, 0.1937, 0.1964 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

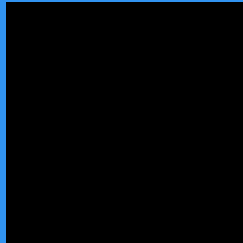
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

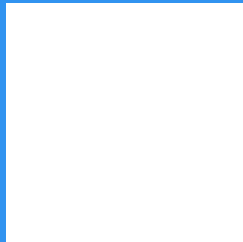
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 27.8117, 0.1937, 0.1964**

## **Background**



This preview shows how black text looks on a background with the Yxy color 27.8117, 0.1937, 0.1964.



This preview shows how white text looks on a background with the Yxy color 27.8117, 0.1937, 0.1964.

# 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

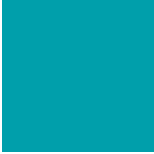
27.8117, 0.1937, 0.1964

### Protanopia

27.7035, 0.2167, 0.1999

### Deuteranopia

27.7532, 0.1998, 0.1934



## **Tritanopia**

27.7365, 0.2186, 0.3071

# Trichromacy



**Original Color**

27.8117, 0.1937, 0.1964

**Protanomaly**

27.6323, 0.2058, 0.1981

**Deuteranomaly**

27.7255, 0.1971, 0.1939

**Tritanomaly**

27.5568, 0.2072, 0.2603

# Monochromacy



**Original Color**

27.8117, 0.1937, 0.1964

**Achromatopsia**

21.5861, 0.3127, 0.3290

**Achromatomaly**

22.8452, 0.2477, 0.2699

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.8117, 0.1937, 0.1964 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(49, 147, 240)` looks like.

```
.text, #text, p{  
    color:rgb(49, 147, 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(49, 147, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 147, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 27.8117, 0.1937, 0.1964 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(49, 147, 240) }
```

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

```
.border{ border-color:rgb(49, 147, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 147, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 147, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 147, 240);  
box-shadow:4px 4px 4px 4px rgb(49, 147,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.8117, 0.1937, 0.1964 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 147, 240) }
```

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

```
.background{ background-color: rgb(49, 147,  
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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