

# Converting Colors

$Y_{xy}(33.9987, 0.1956, 0.2049)$

Have a look what the booklet for  
Yxy(33.9987, 0.1956, 0.2049)  
contains.

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# Color

**Yxy(34.1182, 0.1957, 0.2054)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33A3FF
RGB	51, 163, 255
RGB Percent	20%, 64%, 100%
CMY	0.8005, 0.3607, 0.0000
CMYK	0.80, 0.36, 0.00, 0.00
HSL	207°, 100%, 60%
HSV	207°, 80%, 100%
XYZ	32.5070, 34.1182, 99.4810
YIQ	140.0000, -96.2840, 4.8680

# Conversions

## Conversions Part 2

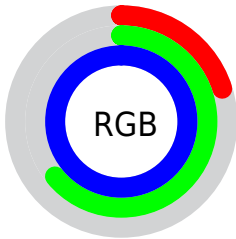
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 123, 255
Decimal	3384319
CIE <sub>Lab</sub>	65.06, 0.28, -54.32
CIE <sub>LCh</sub>	65, 54.318, 270.298
Yxy	34.1182, 0.1957, 0.2054
Android (android.graphics.Color)	4281574399 (0xFF33A3FF)
YUV	140.0000, 56.6950, -78.0530
Hunter-Lab	58.4108, -2.8794, -60.0908

# Details

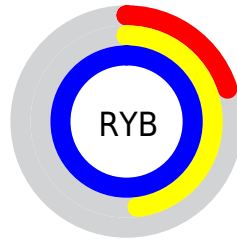
The Yxy color **34.1182, 0.1957, 0.2054** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **41.0995, 0.5109, 0.4067**, and the grayscale version is **26.0162, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.9520, 0.2389, 0.2844**, and **15.6656, 0.1832, 0.1795** is the 20% darker color. If you saturate the color by 10%, you get **29.7328, 0.1873, 0.1880**, and if you desaturate by 10%, it is **39.2386, 0.2064, 0.2232**.

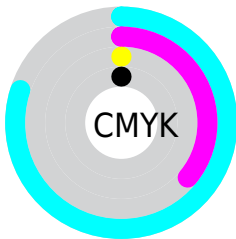
# Distribution



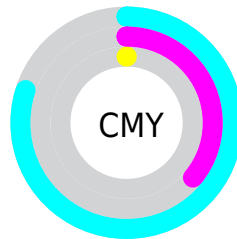
- Red (20%)
- Green (64%)
- Blue (100%)



- Red (20%)
- Yellow (48%)
- Blue (100%)



- Cyan (80%)
- Magenta (36%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (36%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.1182, 0.1957, 0.2054 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 34.1182, 0.1957, 0.2054 by changing the saturation by 10% instead.





 34.1182, 0.1957,  
0.2054


 34.1182, 0.1957,  
0.2054


320.6588, 0.2531,  
0.2660


 22.9844, 0.1823,  
0.1913


 66.1174, 0.2159,  
0.2268


 14.5820, 0.1659,  
0.1740


 87.7517, 0.2238,  
0.2350

 8.5266, 0.1455,  
0.1525

 113.6549, 0.2304,  
0.2421

 4.4337, 0.1199,  
0.1255

 144.2114, 0.2362,  
0.2482

 1.9190, 0.0881,  
0.0921

179.8057, 0.2413,  
0.2535

 0.5598, 0.0480,  
0.0499

220.8220, 0.2457,

 0.0000, 0.0000,

0.2581

0.0000

267.6450, 0.2496,  
0.2623

■ 34.1182, 0.1957,  
0.2054

■ 34.1182, 0.1957,  
0.2054

■ 29.7328, 0.1873,  
0.1880

■ 39.2386, 0.2064,  
0.2232

■ 26.0024, 0.1810,  
0.1715

■ 45.1525, 0.2192,  
0.2410

■ 51.9137, 0.2335,  
0.2583

■ 59.5688, 0.2489,  
0.2748

■ 68.1607, 0.2649,  
0.2902

■ 77.7286, 0.2811,  
0.3044

■ 88.3092, 0.2971,  
0.3173

99.9371, 0.3126,  
0.3289

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



34.1182, 0.1717, 0.2297



34.1182, 0.1957, 0.2054



34.1182, 0.2491, 0.2089

# Triad

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



34.1182, 0.1957, 0.2054



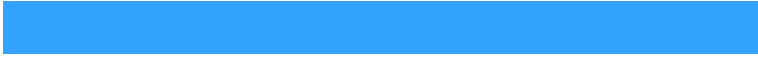
34.1182, 0.4697, 0.3387



34.1182, 0.2811, 0.4570

# Complementary

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



34.1182, 0.1957, 0.2054



41.0995, 0.5109, 0.4067

# 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.



34.1182, 0.3605, 0.4847



34.1182, 0.1957, 0.2054



34.1182, 0.4742, 0.3994

# Square

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



34.1182, 0.1957, 0.2054



34.1182, 0.4132, 0.2818



34.1182, 0.4316, 0.4552



34.1182, 0.2146, 0.3748



# Rectangle

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



34.1182, 0.1957, 0.2054



34.1182, 0.2996, 0.2246



34.1182, 0.4316, 0.4552



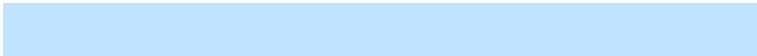
34.1182, 0.3072, 0.4737

# Sweetspot

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



34.1191, 0.1957, 0.2054



73.8319, 0.2747, 0.2990



74.1953, 0.2727, 0.4811



15.0790, 0.2689, 0.2939



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.



34.1191, 0.1957, 0.2054



27.4408, 0.1833, 0.1781



11.2659, 0.1647, 0.0880



19.0321, 0.2979, 0.3180



13.8895, 0.1817, 0.1742



1.5707, 0.1870, 0.1933



# Inverse Universe

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



26.2609, 0.4361, 0.2336



23.5161, 0.4705, 0.2382



86.6777, 0.4204, 0.4896



18.1541, 0.3208, 0.3160



12.1301, 0.4755, 0.2393



1.2031, 0.4530, 0.2269



# Previews

## White Background



This preview shows how the Yxy color 34.1182, 0.1957, 0.2054 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 34.1182, 0.1957, 0.2054 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

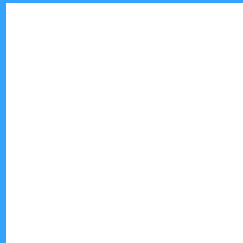
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 34.1182, 0.1957, 0.2054**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.1182, 0.1957, 0.2054.



This preview shows how white text looks on a background with the Yxy color 34.1182, 0.1957, 0.2054.

# 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

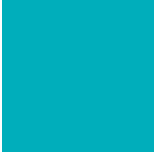
34.1182, 0.1957, 0.2054

### Protanopia

33.9642, 0.2232, 0.2084

### Deuteranopia

33.8207, 0.2079, 0.2013



## **Tritanopia**

33.8600, 0.2187, 0.3071

# Trichromacy



**Original Color**

34.1182, 0.1957, 0.2054

**Protanomaly**

33.5029, 0.2097, 0.2059

**Deuteranomaly**

33.7217, 0.2024, 0.2021

**Tritanomaly**

33.6315, 0.2079, 0.2637

# Monochromacy



**Original Color**

34.1182, 0.1957, 0.2054

**Achromatopsia**

26.2251, 0.3127, 0.3290

**Achromatomaly**

27.7454, 0.2491, 0.2740

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.1182, 0.1957, 0.2054 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(51, 163, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 163, 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(51, 163, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 163, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 34.1182, 0.1957, 0.2054 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(51, 163, 255) }
```

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

```
.border{ border-color:rgb(51, 163, 255) }
```

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

Here you see how a box with a 4 pixel rgb(51, 163, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 163, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 163, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 163,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.1182, 0.1957, 0.2054 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 163, 255) }
```

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

```
.background{ background-color: rgb(51, 163,  
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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