

# Converting Colors

$Y_{xy}(35.5436, 0.1995, 0.2156)$

Have a look what the booklet for  
Yxy(35.5436, 0.1995, 0.2156)  
contains.

<b>Yxy(35.4147, 0.1993, 0.2152)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(35.4147, 0.1993, 0.2152)**

# Conversions

## Conversions Part 1

Format	Color
Hex	37A7FB
RGB	55, 167, 251
RGB Percent	22%, 65%, 98%
CMY	0.7848, 0.3450, 0.0158
CMYK	0.78, 0.33, 0.00, 0.02
HSL	206°, 96%, 60%
HSV	206°, 78%, 98%
XYZ	32.7981, 35.4147, 96.3537
YIQ	143.0880, -93.7160, 2.3800

# Conversions

## Conversions Part 2

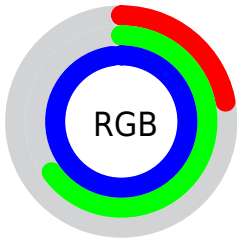
Format	Color
<a href="#">RYB</a>	55, 126, 251
Decimal	3647483
CIELab	66.07, -3.05, -50.51
CIELCh	66, 50.605, 266.547
Yxy	35.4147, 0.1993, 0.2152
Android (android.graphics.Color)	4281837563 (0xFF37A7FB)
YUV	143.0880, 53.2006, -77.2532
Hunter-Lab	59.5103, -5.7656, -54.3399

# Details

The Yxy color **35.4147, 0.1993, 0.2152** 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 **39.1975, 0.5099, 0.4024**, and the grayscale version is **27.3044, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.1297, 0.2403, 0.2895**, and **16.3858, 0.1864, 0.1911** is the 20% darker color. If you saturate the color by 10%, you get **31.1043, 0.1907, 0.1986**, and if you desaturate by 10%, it is **40.4142, 0.2101, 0.2321**.

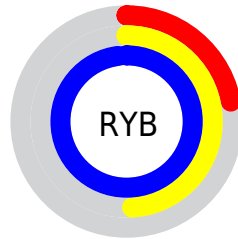
# Distribution



Red (22%)

Green (65%)

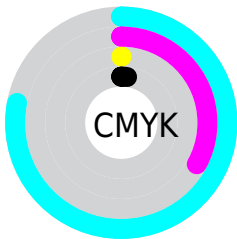
Blue (98%)



Red (22%)

Yellow (49%)

Blue (98%)

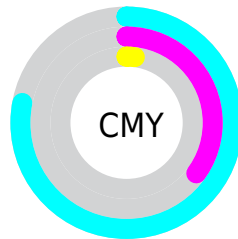


Cyan (78%)

Magenta (33%)

Yellow (0%)

Black (2%)



Cyan (78%)

Magenta (35%)


Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.4147, 0.1993, 0.2152 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 35.4147, 0.1993, 0.2152 by changing the saturation by 10% instead.





 35.4147, 0.1993,  
0.2152


 35.4147, 0.1993,  
0.2152


326.3950, 0.2548,  
0.2715

 23.9825, 0.1863,  
0.2019


 68.1277, 0.2189,  
0.2352

 15.3206, 0.1703,  
0.1855


 90.1773, 0.2265,  
0.2428

 9.0447, 0.1504,  
0.1648


 116.5348, 0.2329,  
0.2494

 4.7704, 0.1251,  
0.1385

 147.5847, 0.2385,  
0.2550

 2.1132, 0.0934,  
0.1051

183.7112, 0.2434,  
0.2599

 0.6720, 0.0528,  
0.0629

225.2988, 0.2477,

 0.0000, 0.0000,

0.2642

0.0000

272.7320, 0.2515,  
0.2681

■ 35.4147, 0.1993,  
0.2152

■ 35.4147, 0.1993,  
0.2152

■ 31.1043, 0.1907,  
0.1986

■ 40.4142, 0.2101,  
0.2321

■ 27.4056, 0.1843,  
0.1825

■ 46.1549, 0.2229,  
0.2489

■ 26.7654, 0.1832,  
0.1796

■ 52.6863, 0.2371,  
0.2651

■ 60.0512, 0.2524,  
0.2805

■ 68.2887, 0.2682,  
0.2949

■ 77.4350, 0.2842,  
0.3081

■ 87.5238, 0.3001,  
0.3201

■ 98.4620, 0.3151,  
0.3309

■ 99.7436, 0.3150,  
0.3328

# Harmonies

## Analogous

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



35.4147, 0.1800, 0.2424



35.4147, 0.1993, 0.2152



35.4147, 0.2462, 0.2151

# Triad

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



35.4147, 0.1993, 0.2152



35.4147, 0.4532, 0.3323



35.4147, 0.2934, 0.4520

# Complementary

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



35.4147, 0.1993, 0.2152



39.1975, 0.5099, 0.4024

# 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.



35.4147, 0.3674, 0.4712



35.4147, 0.1993, 0.2152



35.4147, 0.4645, 0.3892

# Square

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



35.4147, 0.1993, 0.2152



35.4147, 0.3963, 0.2794



35.4147, 0.4306, 0.4416



35.4147, 0.2286, 0.3819



# Rectangle

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



35.4147, 0.1993, 0.2152



35.4147, 0.2916, 0.2281



35.4147, 0.4306, 0.4416



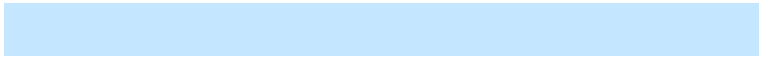
35.4147, 0.3180, 0.4649

# Sweetspot

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



35.4159, 0.1993, 0.2152



75.5347, 0.2764, 0.3018



71.5827, 0.2752, 0.4859



15.4463, 0.2706, 0.2970



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

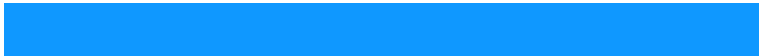


# Same Dimension

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



35.4159, 0.1993, 0.2152



29.9018, 0.1867, 0.1889



12.3066, 0.1685, 0.0976



18.2911, 0.2980, 0.3186



14.3669, 0.1840, 0.1822



1.5410, 0.1893, 0.2013



# Inverse Universe

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



26.0162, 0.4251, 0.2299



23.8894, 0.4574, 0.2319



79.9873, 0.4236, 0.4836



17.3916, 0.3204, 0.3155



11.8612, 0.4659, 0.2340



1.1198, 0.4438, 0.2218



# Previews

## White Background



This preview shows how the Yxy color 35.4147, 0.1993, 0.2152 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

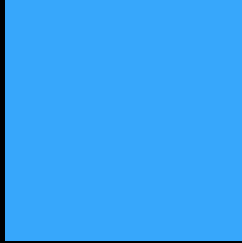
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 35.4147, 0.1993, 0.2152 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

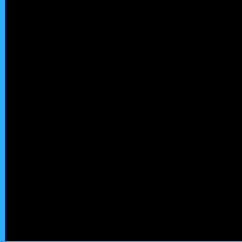
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

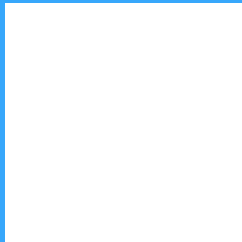
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 35.4147, 0.1993, 0.2152**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.4147, 0.1993, 0.2152.



This preview shows how white text looks on a background with the Yxy color 35.4147, 0.1993, 0.2152.

# 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

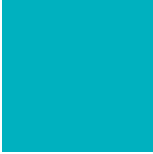
35.4147, 0.1993, 0.2152

### Protanopia

35.1919, 0.2304, 0.2184

### Deuteranopia

35.3593, 0.2145, 0.2085



## **Tritanopia**

35.2059, 0.2183, 0.3059

# Trichromacy



**Original Color**

35.4147, 0.1993, 0.2152

**Protanomaly**

34.9071, 0.2157, 0.2169

**Deuteranomaly**

35.2974, 0.2077, 0.2113

**Tritanomaly**

34.8400, 0.2090, 0.2673

# Monochromacy



**Original Color**

35.4147, 0.1993, 0.2152

**Achromatopsia**

27.4677, 0.3127, 0.3290

**Achromatomaly**

29.2134, 0.2523, 0.2810

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.4147, 0.1993, 0.2152 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(55, 167, 251)` looks like.

```
.text, #text, p{  
    color:rgb(55, 167, 251)  
}
```

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(55, 167, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(55, 167, 251) }
```

## Border

The CSS property to change the border of an element to Yxy 35.4147, 0.1993, 0.2152 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(55, 167, 251) }
```

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

```
.border{ border-color:rgb(55, 167, 251) }
```

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

Here you see how a box with a 4 pixel `rgb(55, 167, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(55, 167, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(55, 167, 251);  
box-shadow:4px 4px 4px 4px rgb(55, 167,  
251) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.4147, 0.1993, 0.2152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(55, 167, 251) }
```

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

```
.background{ background-color: rgb(55, 167,  
251) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor