

# Converting Colors

$Yxy(36.7624, 0.2056, 0.2138)$

Have a look what the booklet for  
Yxy(36.7624, 0.2056, 0.2138)  
contains.

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# Color

**Yxy(36.6068, 0.2054, 0.2132)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51A7FF
RGB	81, 167, 255
RGB Percent	32%, 65%, 100%
CMY	0.6821, 0.3451, 0.0000
CMYK	0.68, 0.35, 0.00, 0.00
HSL	210°, 100%, 66%
HSV	210°, 68%, 100%
XYZ	35.2675, 36.6068, 99.8274
YIQ	151.3180, -79.5040, 9.1360

# Conversions

## Conversions Part 2

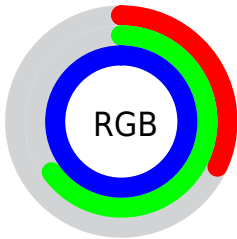
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	81, 139, 255
Decimal	5351423
CIE Lab	66.98, 1.62, -51.22
CIE LCh	67, 51.249, 271.807
Yxy	36.6068, 0.2054, 0.2132
Android (android.graphics.Color)	4283541503 (0xFF51A7FF)
YUV	151.3180, 51.1152, -61.6689
Hunter-Lab	60.5036, -1.8336, -55.4726

# Details

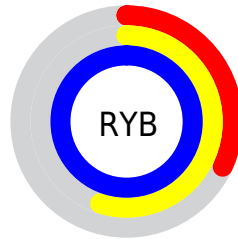
The Yxy color **36.6068, 0.2054, 0.2132** is a light color, and the websafe version is hex **3399FF**. The color can be described as light muted azure. A complement of this color would be **50.2584, 0.4678, 0.4130**, and the grayscale version is **30.8999, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.6656, 0.2485, 0.2903**, and **16.5680, 0.1852, 0.1867** is the 20% darker color. If you saturate the color by 10%, you get **31.1893, 0.1935, 0.1932**, and if you desaturate by 10%, it is **42.9192, 0.2193, 0.2332**.

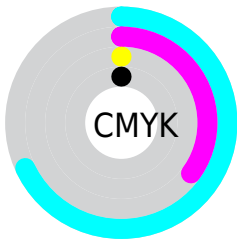
# Distribution



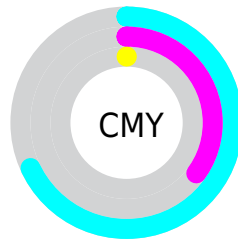
- Red (32%)
- Green (65%)
- Blue (100%)



- Red (32%)
- Yellow (55%)
- Blue (100%)



- Cyan (68%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)




- Cyan (68%)
- Magenta (35%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.6068, 0.2054, 0.2132 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 36.6068, 0.2054, 0.2132 by changing the saturation by 10% instead.





 36.6068, 0.2054,  
0.2132


 36.6068, 0.2054,  
0.2132


331.6050, 0.2580,  
0.2697


 24.9032, 0.1931,  
0.2001


 69.9676, 0.2240,  
0.2331

 16.0050, 0.1779,  
0.1839


 92.3936, 0.2311,  
0.2408

 9.5277, 0.1589,  
0.1637


 119.1626, 0.2372,  
0.2473

 5.0869, 0.1347,  
0.1381

 150.6589, 0.2425,  
0.2530

 2.2984, 0.1039,  
0.1057

187.2668, 0.2471,  
0.2580

 0.7728, 0.0659,  
0.0658

229.3709, 0.2512,

 0.0000, 0.0000,

0.2623

0.0000

277.3555, 0.2548,  
0.2662

■ 36.6068, 0.2054,  
0.2132

■ 36.6068, 0.2054,  
0.2132

■ 31.1893, 0.1935,  
0.1932

■ 42.9192, 0.2193,  
0.2332

■ 26.6021, 0.1839,  
0.1739

■ 50.1814, 0.2346,  
0.2526

■ 22.7623, 0.1768,  
0.1556

■ 58.4436, 0.2508,  
0.2711

■ 22.1352, 0.1757,  
0.1525

■ 67.7514, 0.2674,  
0.2884

■ 78.1473, 0.2839,  
0.3042

■ 89.6708, 0.3000,  
0.3184

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.



36.6068, 0.1812, 0.2353



36.6068, 0.2054, 0.2132



36.6068, 0.2571, 0.2174

# Triad

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



36.6068, 0.2054, 0.2132



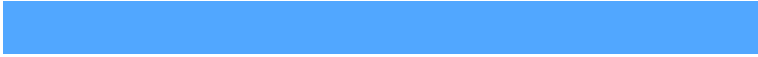
36.6068, 0.4590, 0.3421



36.6068, 0.2807, 0.4428

# Complementary

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



36.6068, 0.2054, 0.2132



50.2584, 0.4678, 0.4130

# 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.



36.6068, 0.3547, 0.4723



36.6068, 0.2054, 0.2132



36.6068, 0.4617, 0.3991

# Square

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



36.6068, 0.2054, 0.2132



36.6068, 0.4090, 0.2880



36.6068, 0.4213, 0.4493



36.6068, 0.2195, 0.3671



# Rectangle

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



36.6068, 0.2054, 0.2132



36.6068, 0.3049, 0.2329



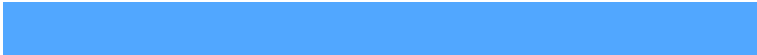
36.6068, 0.4213, 0.4493



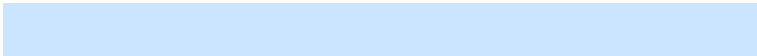
36.6068, 0.3050, 0.4592

# Sweetspot

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



36.6070, 0.2054, 0.2132



76.2039, 0.2810, 0.3014



76.1006, 0.2693, 0.4434



15.6734, 0.2763, 0.2971



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.



36.6070, 0.2054, 0.2132



29.3565, 0.1896, 0.1858



14.8670, 0.1801, 0.1098



18.8599, 0.2979, 0.3167



11.8638, 0.1765, 0.1554



1.3733, 0.1823, 0.1761



# Inverse Universe

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



29.9445, 0.4237, 0.2480



25.3825, 0.4585, 0.2442



93.3751, 0.4055, 0.4824



18.1367, 0.3216, 0.3173



11.9256, 0.4990, 0.2522

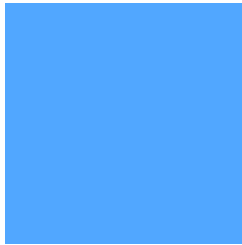


1.1832, 0.4732, 0.2380



# Previews

## White Background



This preview shows how the Yxy color 36.6068, 0.2054, 0.2132 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

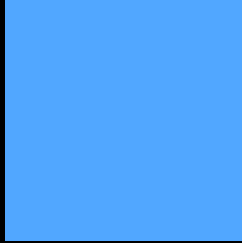
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.6068, 0.2054, 0.2132 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

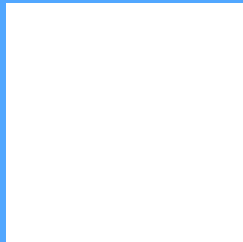
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.6068, 0.2054, 0.2132**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.6068, 0.2054, 0.2132.



This preview shows how white text looks on a background with the Yxy color 36.6068, 0.2054, 0.2132.

# 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

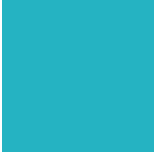
36.6068, 0.2054, 0.2132

### Protanopia

36.3194, 0.2286, 0.2154

### Deuteranopia

36.4402, 0.2161, 0.2099



## **Tritanopia**

36.5286, 0.2221, 0.3048

# Trichromacy



**Original Color**

36.6068, 0.2054, 0.2132

**Protanomaly**

36.2504, 0.2183, 0.2138

**Deuteranomaly**

36.4802, 0.2117, 0.2111

**Tritanomaly**

36.3747, 0.2146, 0.2674

# Monochromacy



**Original Color**

36.6068, 0.2054, 0.2132

**Achromatopsia**

30.9469, 0.3127, 0.3290

**Achromatomaly**

32.2237, 0.2598, 0.2805

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.6068, 0.2054, 0.2132 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(81, 167, 255)` looks like.

```
.text, #text, p{  
    color:rgb(81, 167, 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(81, 167, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 167, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 36.6068, 0.2054, 0.2132 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(81, 167, 255) }
```

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

```
.border{ border-color:rgb(81, 167, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 167, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 167, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 167, 255);  
box-shadow:4px 4px 4px 4px rgb(81, 167,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.6068, 0.2054, 0.2132 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 167, 255) }
```

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

```
.background{ background-color: rgb(81, 167,  
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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