

# Converting Colors

$Y_{xy}(38.3064, 0.2140, 0.2177)$

Have a look what the booklet for  
Yxy(38.3064, 0.2140, 0.2177)  
contains.

<b>Yxy(38.4207, 0.2141, 0.2181)</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(38.4207, 0.2141, 0.2181)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66A9FF
RGB	102, 169, 255
RGB Percent	40%, 66%, 100%
CMY	0.6000, 0.3372, 0.0001
CMYK	0.60, 0.34, 0.00, 0.00
HSL	214°, 100%, 70%
HSV	214°, 60%, 100%
XYZ	37.7161, 38.4207, 100.0242
YIQ	158.7710, -67.5380, 12.5420

# Conversions

## Conversions Part 2

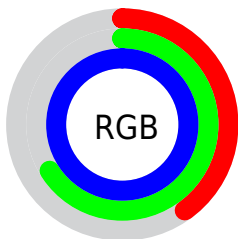
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	102, 149, 255
Decimal	6728191
CIELab	68.33, 3.93, -49.03
CIElCh	68, 49.184, 274.587
Yxy	38.4207, 0.2141, 0.2181
Android (android.graphics.Color)	4284918271 (0xFF66A9FF)
YUV	158.7710, 47.4409, -49.7882
Hunter-Lab	61.9844, 0.1403, -52.2871

# Details

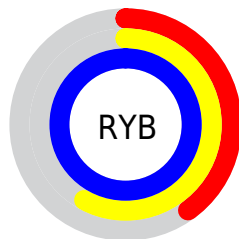
The Yxy color **38.4207, 0.2141, 0.2181** is a light color, and the websafe version is hex **3399FF**. A complement of this color would be **58.1818, 0.4390, 0.4145**, and the grayscale version is **34.3656, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.3178, 0.2569, 0.2935**, and **16.9704, 0.1883, 0.1893** is the 20% darker color. If you saturate the color by 10%, you get **32.1103, 0.1997, 0.1959**, and if you desaturate by 10%, it is **45.7763, 0.2300, 0.2399**.

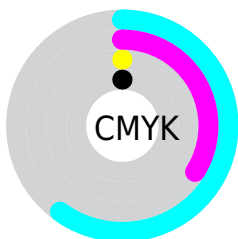
# Distribution



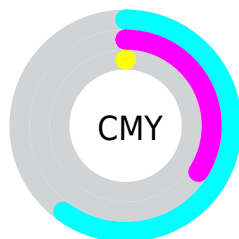
- Red (40%)
- Green (66%)
- Blue (100%)



- Red (40%)
- Yellow (58%)
- Blue (100%)



- Cyan (60%)
- Magenta (34%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (34%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.4207, 0.2141, 0.2181 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 38.4207, 0.2141, 0.2181 by changing the saturation by 10% instead.





 38.4207, 0.2141,  
0.2181


 38.4207, 0.2141,  
0.2181


339.4212, 0.2624,  
0.2718


 26.3094, 0.2027,  
0.2056


 72.7525, 0.2312,  
0.2370

 17.0552, 0.1886,  
0.1902


 95.7418, 0.2378,  
0.2443

 10.2739, 0.1708,  
0.1710


 123.1258, 0.2434,  
0.2505

 5.5809, 0.1480,  
0.1465

155.2890, 0.2483,  
0.2560

 2.5920, 0.1184,  
0.1152

192.6157, 0.2525,  
0.2607

 0.9226, 0.0806,  
0.0759

235.4904, 0.2562,

 0.0000, 0.0000,

0.2648

0.0000

284.2975, 0.2595,  
0.2685

■ 38.4207, 0.2141,  
0.2181

■ 38.4207, 0.2141,  
0.2181

■ 32.1103, 0.1997,  
0.1959

■ 45.7763, 0.2300,  
0.2399

■ 26.7788, 0.1874,  
0.1740

■ 54.2291, 0.2468,  
0.2608

■ 22.3560, 0.1778,  
0.1533

■ 63.8316, 0.2639,  
0.2804

■ 18.7360, 0.1707,  
0.1343

■ 74.6314, 0.2808,  
0.2983

■ 18.7337, 0.1707,  
0.1343

■ 86.6729, 0.2971,  
0.3145

99.9973, 0.3127,  
0.3290

99.9992, 0.3127,  
0.3290

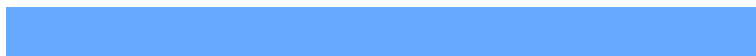
# Harmonies

## Analogous

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



38.4207, 0.1884, 0.2371



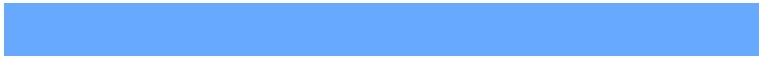
38.4207, 0.2141, 0.2181



38.4207, 0.2660, 0.2241

# Triad

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



38.4207, 0.2141, 0.2181



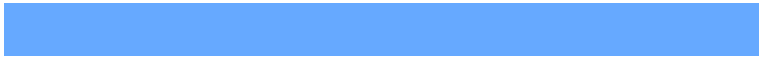
38.4207, 0.4532, 0.3473



38.4207, 0.2767, 0.4305

# Complementary

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



38.4207, 0.2141, 0.2181



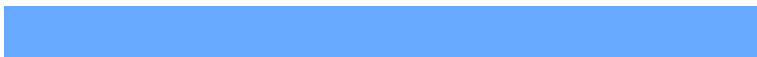
58.1818, 0.4390, 0.4145

# 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.



38.4207, 0.3467, 0.4636



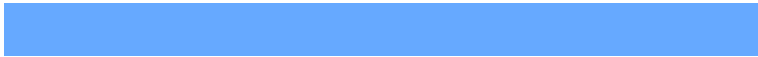
38.4207, 0.2141, 0.2181



38.4207, 0.4521, 0.4015

# Square

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



38.4207, 0.2141, 0.2181



38.4207, 0.4096, 0.2948



38.4207, 0.4112, 0.4470

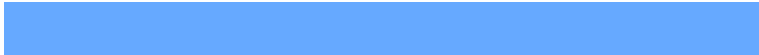


38.4207, 0.2202, 0.3578



# Rectangle

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



38.4207, 0.2141, 0.2181



38.4207, 0.3124, 0.2402



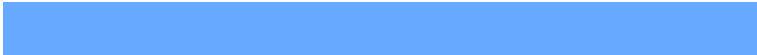
38.4207, 0.4112, 0.4470



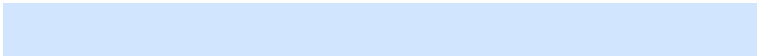
38.4207, 0.2995, 0.4474

# Sweetspot

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



38.4220, 0.2141, 0.2181



76.9396, 0.2841, 0.3017



77.8888, 0.2681, 0.4167



15.7531, 0.2792, 0.2967



0.0000, 0.0000, 0.0000

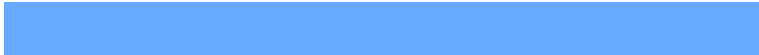


21.4041, 0.3127, 0.3290



# Same Dimension

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



38.4220, 0.2141, 0.2181



30.9673, 0.1971, 0.1915



20.0177, 0.1997, 0.1370



18.6866, 0.2979, 0.3153



10.0750, 0.1715, 0.1373



1.1939, 0.1776, 0.1592



# Inverse Universe

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



33.6275, 0.4152, 0.2627



28.0781, 0.4482, 0.2560



92.3071, 0.3924, 0.4727



18.1192, 0.3225, 0.3186



11.7450, 0.5227, 0.2653



1.1651, 0.4941, 0.2496



# Previews

## White Background



This preview shows how the Yxy color 38.4207, 0.2141, 0.2181 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

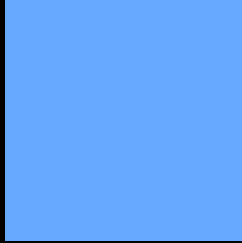
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.4207, 0.2141, 0.2181 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

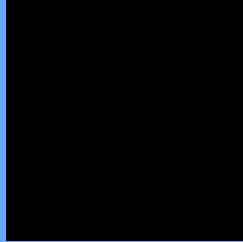
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

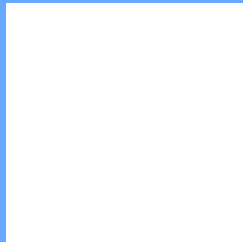
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.4207, 0.2141, 0.2181**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.4207, 0.2141, 0.2181.



This preview shows how white text looks on a background with the Yxy color 38.4207, 0.2141, 0.2181.

# 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

38.4207, 0.2141, 0.2181

### Protanopia

38.3308, 0.2321, 0.2196

### Deuteranopia

38.1952, 0.2219, 0.2152



## Tritanopia

38.5291, 0.2332, 0.3057

# Trichromacy



## Original Color

38.4207, 0.2141, 0.2181

## Protanomaly

38.2236, 0.2248, 0.2185

## Deuteranomaly

38.0698, 0.2187, 0.2156

## Tritanomaly

38.3853, 0.2257, 0.2708

# Monochromacy



## Original Color

38.4207, 0.2141, 0.2181

## Achromatopsia

34.6704, 0.3127, 0.3290

## Achromatomaly

35.4927, 0.2667, 0.2841

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.4207, 0.2141, 0.2181 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(102, 169, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 169, 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(102, 169, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 169, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.4207, 0.2141, 0.2181 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(102, 169, 255) }
```

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

```
.border{ border-color:rgb(102, 169, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 169, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 169, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 169, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 169,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.4207, 0.2141, 0.2181 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 169, 255) }
```

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

```
.background{ background-color: rgb(102,  
169, 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](#).

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