

# Converting Colors

$Y_{xy}(38.3196, 0.2171, 0.2169)$

Have a look what the booklet for  
Yxy(38.3196, 0.2171, 0.2169)  
contains.

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# Color

**Yxy(38.1724, 0.2171, 0.2164)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6EA7FF
RGB	110, 167, 255
RGB Percent	43%, 65%, 100%
CMY	0.5686, 0.3451, 0.0001
CMYK	0.57, 0.34, 0.00, 0.00
HSL	216°, 100%, 72%
HSV	216°, 57%, 100%
XYZ	38.2959, 38.1724, 99.9291
YIQ	159.9890, -62.2200, 15.2840

# Conversions

## Conversions Part 2

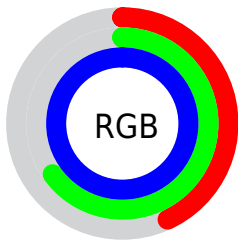
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">110, 151, 255</a>
Decimal	<a href="#">7251967</a>
CIELab	<a href="#">68.15, 6.59, -49.28</a>
CIELCh	<a href="#">68, 49.717, 277.618</a>
Yxy	<a href="#">38.1724, 0.2171, 0.2164</a>
Android (android.graphics.Color)	<a href="#">4285442047 (0xFF6EA7FF)</a>
YUV	<a href="#">159.9890, 46.8404, -43.8404</a>
Hunter-Lab	<a href="#">61.7838, 2.5192, -52.6470</a>

# Details

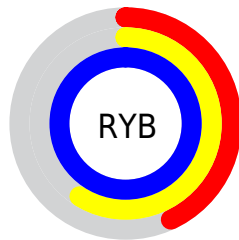
The Yxy color **38.1724, 0.2171, 0.2164** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **62.7593, 0.4269, 0.4171**, and the grayscale version is **34.9527, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.0086, 0.2604, 0.2915**, and **17.0394, 0.1924, 0.1889** is the 20% darker color. If you saturate the color by 10%, you get **31.4322, 0.2015, 0.1925**, and if you desaturate by 10%, it is **46.0639, 0.2340, 0.2398**.

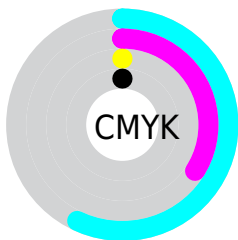
# Distribution



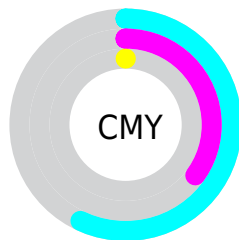
- Red (43%)
- Green (65%)
- Blue (100%)



- Red (43%)
- Yellow (59%)
- Blue (100%)



- Cyan (57%)
- Magenta (34%)
- Yellow (0%)
- Black (0%)




- Cyan (57%)
- Magenta (35%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.1724, 0.2171, 0.2164 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 38.1724, 0.2171, 0.2164 by changing the saturation by 10% instead.





 38.1724, 0.2171,  
0.2164


 38.1724, 0.2171,  
0.2164


338.3589, 0.2642,  
0.2707

 26.1165, 0.2060,  
0.2038


 72.3723, 0.2338,  
0.2355

 16.9108, 0.1921,  
0.1884


 95.2851, 0.2402,  
0.2428

 10.1709, 0.1746,  
0.1690


 122.5857, 0.2457,  
0.2492

 5.5124, 0.1521,  
0.1445

154.6584, 0.2504,  
0.2547

 2.5510, 0.1227,  
0.1132

191.8877, 0.2545,  
0.2594

 0.9021, 0.0848,  
0.0742

234.6580, 0.2581,

 0.0000, 0.0000,

0.2637

0.0000

283.3536, 0.2613,  
0.2674

■ 38.1724, 0.2171,  
0.2164

■ 38.1724, 0.2171,  
0.2164

■ 31.4322, 0.2015,  
0.1925

■ 46.0639, 0.2340,  
0.2398

■ 25.7739, 0.1880,  
0.1690

■ 55.1621, 0.2514,  
0.2620

■ 21.1249, 0.1770,  
0.1468

■ 65.5229, 0.2689,  
0.2827

■ 17.3964, 0.1690,  
0.1267

■ 77.1971, 0.2859,  
0.3015

■ 16.3786, 0.1669,  
0.1208

■ 90.2327, 0.3021,  
0.3185

99.9979, 0.3127,  
0.3290

# Harmonies

## Analogous

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



38.1724, 0.1884, 0.2328



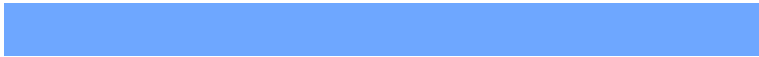
38.1724, 0.2171, 0.2164



38.1724, 0.2720, 0.2248

# Triad

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



38.1724, 0.2171, 0.2164



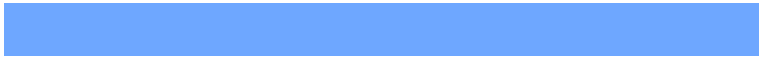
38.1724, 0.4570, 0.3529



38.1724, 0.2695, 0.4258

# Complementary

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



38.1724, 0.2171, 0.2164



62.7593, 0.4269, 0.4171

# 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.



38.1724, 0.3398, 0.4646



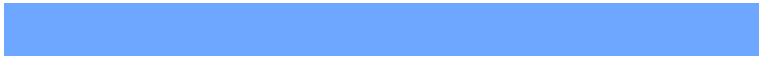
38.1724, 0.2171, 0.2164



38.1724, 0.4511, 0.4074

# Square

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



38.1724, 0.2171, 0.2164



38.1724, 0.4170, 0.2994



38.1724, 0.4065, 0.4519



38.1724, 0.2146, 0.3500



# Rectangle

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



38.1724, 0.2171, 0.2164



38.1724, 0.3200, 0.2424



38.1724, 0.4065, 0.4519



38.1724, 0.2921, 0.4445

# Sweetspot

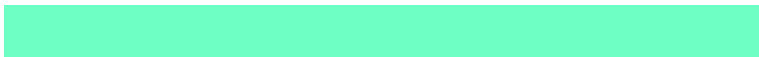
The Sweet Spot groups the original color and five complimentary colors.



38.1737, 0.2171, 0.2164



77.0341, 0.2856, 0.3013



78.8461, 0.2661, 0.4015



15.9641, 0.2823, 0.2976



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.



38.1737, 0.2171, 0.2164



30.7362, 0.1999, 0.1898



22.6973, 0.2106, 0.1493



18.5492, 0.2979, 0.3142



8.8307, 0.1677, 0.1239



1.0653, 0.1740, 0.1462



# Inverse Universe

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



35.2000, 0.4153, 0.2718



29.4291, 0.4480, 0.2652



91.2336, 0.3842, 0.4695



18.1054, 0.3232, 0.3197



11.6194, 0.5412, 0.2755



1.1521, 0.5108, 0.2588



# Previews

## White Background



This preview shows how the Yxy color 38.1724, 0.2171, 0.2164 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

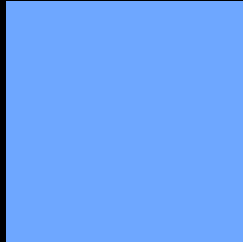
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.1724, 0.2171, 0.2164 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

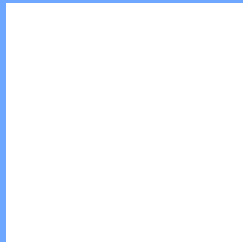
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.1724, 0.2171, 0.2164**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.1724, 0.2171, 0.2164.



This preview shows how white text looks on a background with the Yxy color 38.1724, 0.2171, 0.2164.

# 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

38.1724, 0.2171, 0.2164

### Protanopia

37.8740, 0.2302, 0.2170

### Deuteranopia

38.1233, 0.2214, 0.2151



## Tritanopia

38.1137, 0.2383, 0.3058

# Trichromacy



**Original Color**

38.1724, 0.2171, 0.2164

**Protanomaly**

37.9392, 0.2251, 0.2173

**Deuteranomaly**

38.2054, 0.2197, 0.2158

**Tritanomaly**

38.0507, 0.2299, 0.2697

# Monochromacy



**Original Color**

38.1724, 0.2171, 0.2164

**Achromatopsia**

35.1533, 0.3127, 0.3290

**Achromatomaly**

35.8853, 0.2691, 0.2831

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  38.1724, 0.2171, 0.2164 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(110, 167, 255)` looks like.

```
.text, #text, p{  
    color:rgb(110, 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(110, 167, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(110, 167, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.1724, 0.2171, 0.2164 is called "border". The border property can be set on classes, ids or directly on the HTML element.

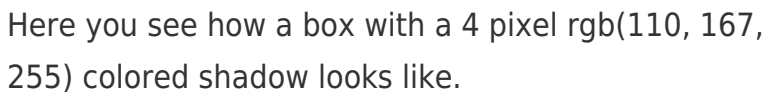
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(110, 167, 255) }
```

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

```
.border{ border-color:rgb(110, 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(110, 167, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(110, 167, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(110, 167, 255); box-shadow:4px 4px 4px 4px rgb(110, 167, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.1724, 0.2171, 0.2164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(110, 167, 255) }
```

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

```
.background{ background-color: rgb(110,  
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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