

# Converting Colors

$Y_{xy}(36.8350, 0.2113, 0.2287)$

Have a look what the booklet for  
Yxy(36.8350, 0.2113, 0.2287)  
contains.

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# **Color**

**Yxy(36.6860, 0.2111, 0.2283)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53A9F3
RGB	83, 169, 243
RGB Percent	33%, 66%, 95%
CMY	0.6751, 0.3372, 0.0471
CMYK	0.66, 0.30, 0.00, 0.05
HSL	208°, 87%, 64%
HSV	208°, 66%, 95%
XYZ	33.9221, 36.6860, 90.0840
YIQ	151.7220, -75.0100, 4.7820

# Conversions

## Conversions Part 2

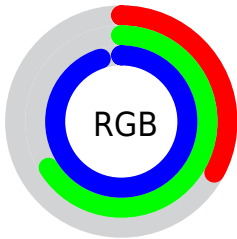
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	83, 139, 243
Decimal	5482995
CIE Lab	67.04, -3.27, -44.58
CIE LCh	67, 44.701, 265.805
Yxy	36.6860, 0.2111, 0.2283
Android (android.graphics.Color)	4283673075 (0xFF53A9F3)
YUV	151.7220, 45.0001, -60.2692
Hunter-Lab	60.5690, -6.0255, -45.7835

# Details

The Yxy color **36.6860, 0.2111, 0.2283** is a light color, and the websafe version is hex **6699CC**. The color can be described as light muted azure. A complement of this color would be **43.7317, 0.4671, 0.4041**, and the grayscale version is **31.0858, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.7344, 0.2489, 0.2927**, and **16.2678, 0.1896, 0.2026** is the 20% darker color. If you saturate the color by 10%, you get **31.7717, 0.1993, 0.2101**, and if you desaturate by 10%, it is **42.3482, 0.2247, 0.2463**.

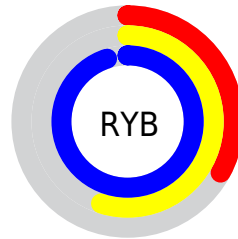
# Distribution



Red (33%)

Green (66%)

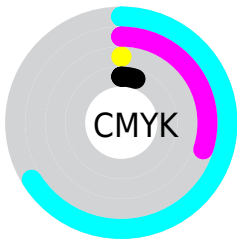
Blue (95%)



Red (33%)

Yellow (55%)

Blue (95%)

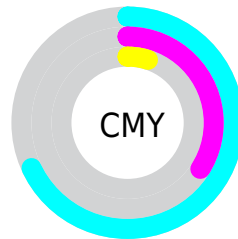


Cyan (66%)

Magenta (30%)

Yellow (0%)

Black (5%)



Cyan (68%)

Magenta (34%)


Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.6860, 0.2111, 0.2283 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 36.6860, 0.2111, 0.2283 by changing the saturation by 10% instead.





 36.6860, 0.2111,  
0.2283


 36.6860, 0.2111,  
0.2283


331.9491, 0.2612,  
0.2784


 24.9645, 0.1992,  
0.2163


 70.0896, 0.2289,  
0.2462


 16.0506, 0.1844,  
0.2012


 92.5404, 0.2357,  
0.2531

 9.5600, 0.1657,  
0.1820


 119.3365, 0.2415,  
0.2589

 5.1082, 0.1415,  
0.1571

 150.8622, 0.2466,  
0.2639

 2.3109, 0.1101,  
0.1242

187.5019, 0.2509,  
0.2682

 0.7795, 0.0689,  
0.0812

229.6400, 0.2548,

 0.0000, 0.0000,

0.2721

0.0000

277.6609, 0.2582,  
0.2754

■ 36.6860, 0.2111,  
0.2283

■ 36.6860, 0.2111,  
0.2283

■ 31.7717, 0.1993,  
0.2101

■ 42.3482, 0.2247,  
0.2463

■ 27.5501, 0.1897,  
0.1921

■ 48.7997, 0.2397,  
0.2638

■ 23.9604, 0.1825,  
0.1748

■ 56.0823, 0.2555,  
0.2802

■ 22.6366, 0.1800,  
0.1680

■ 64.2331, 0.2716,  
0.2955

■ 73.2866, 0.2878,  
0.3095

83.2753, 0.3036,  
0.3222

94.2296, 0.3189,  
0.3335

99.2509, 0.3197,  
0.3405

# Harmonies

## Analogous

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



36.6860, 0.1943, 0.2543



36.6860, 0.2111, 0.2283



36.6860, 0.2530, 0.2271

# Triad

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



36.6860, 0.2111, 0.2283



36.6860, 0.4346, 0.3321



36.6860, 0.2985, 0.4356

# Complementary

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



36.6860, 0.2111, 0.2283



43.7317, 0.4671, 0.4041

# 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.



36.6860, 0.3640, 0.4528



36.6860, 0.2111, 0.2283



36.6860, 0.4465, 0.3832

# Square

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



36.6860, 0.2111, 0.2283



36.6860, 0.3843, 0.2843



36.6860, 0.4188, 0.4288



36.6860, 0.2403, 0.3768



# Rectangle

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



36.6860, 0.2111, 0.2283



36.6860, 0.2930, 0.2384



36.6860, 0.4188, 0.4288



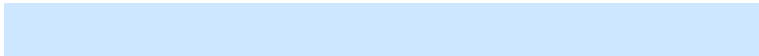
36.6860, 0.3204, 0.4467

# Sweetspot

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



36.6873, 0.2111, 0.2283



77.4569, 0.2811, 0.3039



68.2953, 0.2735, 0.4500



15.9732, 0.2765, 0.2999



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.



36.6873, 0.2111, 0.2283



33.8133, 0.1959, 0.2041



15.7612, 0.1865, 0.1253



17.4038, 0.2980, 0.3178



12.6972, 0.1807, 0.1706



1.3215, 0.1867, 0.1920



# Inverse Universe

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



28.0834, 0.4078, 0.2426



26.4633, 0.4372, 0.2359



79.0871, 0.4082, 0.4732



16.6316, 0.3209, 0.3163



11.3812, 0.4799, 0.2417

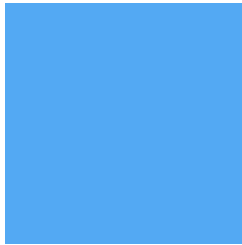


1.0210, 0.4545, 0.2277



# Previews

## White Background



This preview shows how the Yxy color 36.6860, 0.2111, 0.2283 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

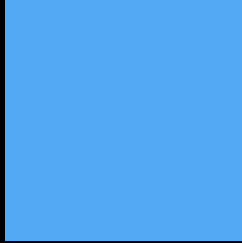
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.6860, 0.2111, 0.2283 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

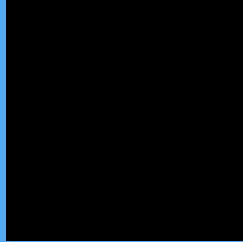
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

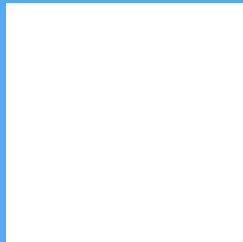
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.6860, 0.2111, 0.2283**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.6860, 0.2111, 0.2283.

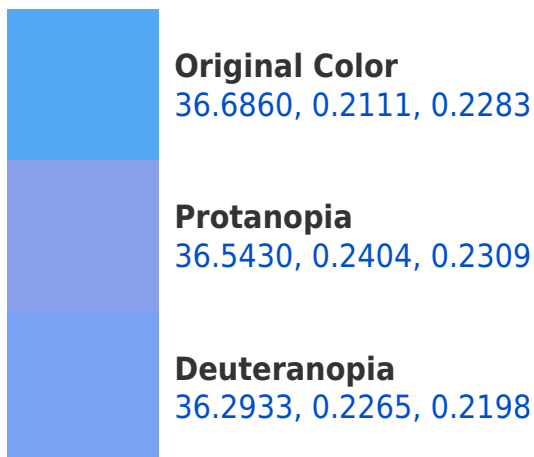


This preview shows how white text looks on a background with the Yxy color 36.6860, 0.2111, 0.2283.

# 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





## Tritanopia

36.8747, 0.2267, 0.3066

# Trichromacy



**Original Color**

36.6860, 0.2111, 0.2283

**Protanomaly**

36.2190, 0.2276, 0.2289

**Deuteranomaly**

36.2707, 0.2199, 0.2228

**Tritanomaly**

36.4531, 0.2199, 0.2745

# Monochromacy



**Original Color**

36.6860, 0.2111, 0.2283

**Achromatopsia**

31.3989, 0.3127, 0.3290

**Achromatomaly**

32.4685, 0.2636, 0.2878

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.6860, 0.2111, 0.2283 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(83, 169, 243)` looks like.

```
.text, #text, p{  
    color:rgb(83, 169, 243)  
}
```

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(83, 169, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 169, 243) }
```

## Border

The CSS property to change the border of an element to Yxy 36.6860, 0.2111, 0.2283 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(83, 169, 243) }
```

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

```
.border{ border-color:rgb(83, 169, 243) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 169, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 169, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 169, 243);  
box-shadow:4px 4px 4px 4px rgb(83, 169,  
243) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.6860, 0.2111, 0.2283 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 169, 243) }
```

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

```
.background{ background-color: rgb(83, 169,  
243) }
```

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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