

# Converting Colors

$Y_{xy}(40.7806, 0.2214, 0.2471)$

Have a look what the booklet for  
Yxy(40.7806, 0.2214, 0.2471)  
contains.

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# Color

**Yxy(40.6142, 0.2213, 0.2467)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61B2EF
RGB	97, 178, 239
RGB Percent	38%, 70%, 94%
CMY	0.6195, 0.3020, 0.0627
CMYK	0.59, 0.26, 0.00, 0.06
HSL	206°, 82%, 66%
HSV	206°, 59%, 94%
XYZ	36.4326, 40.6142, 87.5831
YIQ	160.7350, -67.8570, 1.7990

# Conversions

## Conversions Part 2

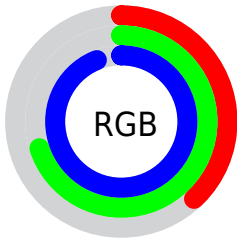
Format	Color
R <sub>Y</sub> B	97, 149, 239
Decimal	6402799
CIE Lab	69.90, -7.07, -37.89
CIE LCh	70, 38.544, 259.427
Yxy	40.6142, 0.2213, 0.2467
Android (android.graphics.Color)	4284592879 (0xFF61B2EF)
YUV	160.7350, 38.5846, -55.8956
Hunter-Lab	63.7293, -9.4818, -36.8717

# Details

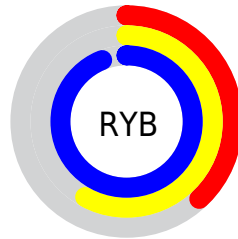
The Yxy color **40.6142, 0.2213, 0.2467** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **43.6822, 0.4512, 0.3943**, and the grayscale version is **35.3570, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.2337, 0.2556, 0.3050**, and **18.4598, 0.1975, 0.2246** is the 20% darker color. If you saturate the color by 10%, you get **35.5590, 0.2088, 0.2299**, and if you desaturate by 10%, it is **46.3737, 0.2354, 0.2630**.

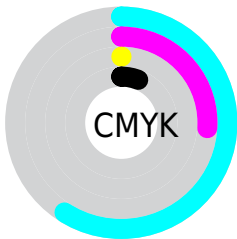
# Distribution



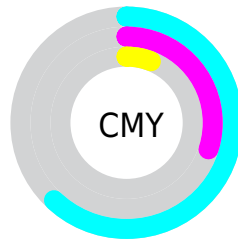
- Red (38%)
- Green (70%)
- Blue (94%)



- Red (38%)
- Yellow (58%)
- Blue (94%)



- Cyan (59%)
- Magenta (26%)
- Yellow (0%)
- Black (6%)



- Cyan (62%)
- Magenta (30%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.6142, 0.2213, 0.2467 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 40.6142, 0.2213, 0.2467 by changing the saturation by 10% instead.



40.6142, 0.2213,  
0.2467

40.6142, 0.2213,  
0.2467

348.7056, 0.2660,  
0.2878

28.0178, 0.2107,  
0.2367

76.0979, 0.2372,  
0.2615

18.3390, 0.1975,  
0.2241

99.7539, 0.2433,  
0.2671

11.1937, 0.1806,  
0.2078

127.8653, 0.2484,  
0.2719

6.1973, 0.1586,  
0.1861

160.8163, 0.2529,  
0.2760

2.9654, 0.1293,  
0.1566

198.9915, 0.2568,  
0.2795

1.1137, 0.0902,  
0.1155

242.7752, 0.2603,

0.0000, 0.0000,

0.2826

0.0000

292.5517, 0.2633,  
0.2854

■ 40.6142, 0.2213,  
0.2467

■ 40.6142, 0.2213,  
0.2467

■ 35.5590, 0.2088,  
0.2299

■ 46.3737, 0.2354,  
0.2630

■ 31.1603, 0.1982,  
0.2130

■ 52.8719, 0.2505,  
0.2786

■ 27.3691, 0.1898,  
0.1964


■ 60.1452, 0.2663,  
0.2931

■ 24.1095, 0.1835,  
0.1804


■ 68.2261, 0.2823,  
0.3065

■ 23.9260, 0.1832,  
0.1794

■ 77.1450, 0.2982,  
0.3187

 86.9302, 0.3136,  
0.3296

 95.7949, 0.3225,  
0.3395

 99.0123, 0.3220,  
0.3444

# Harmonies

## Analogous

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



40.6142, 0.2115, 0.2747



40.6142, 0.2213, 0.2467



40.6142, 0.2533, 0.2406

# Triad

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



40.6142, 0.2213, 0.2467



40.6142, 0.4075, 0.3238



40.6142, 0.3137, 0.4225

# Complementary

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



40.6142, 0.2213, 0.2467



43.6822, 0.4512, 0.3943

# 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.



40.6142, 0.3681, 0.4305



40.6142, 0.2213, 0.2467



40.6142, 0.4254, 0.3677

# Square

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



40.6142, 0.2213, 0.2467



40.6142, 0.3611, 0.2836



40.6142, 0.4098, 0.4074



40.6142, 0.2616, 0.3806



# Rectangle

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



40.6142, 0.2213, 0.2467



40.6142, 0.2852, 0.2476



40.6142, 0.4098, 0.4074



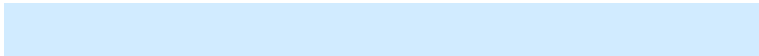
40.6142, 0.3323, 0.4293

# Sweetspot

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



40.6156, 0.2213, 0.2467



80.3650, 0.2844, 0.3082



66.6855, 0.2775, 0.4425



16.5870, 0.2798, 0.3045



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.



40.6156, 0.2213, 0.2467



40.1979, 0.2067, 0.2268



19.6838, 0.2001, 0.1517



16.7253, 0.2980, 0.3186



13.4873, 0.1839, 0.1819



1.3192, 0.1898, 0.2031



# Inverse Universe

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



30.1213, 0.3881, 0.2440



29.3333, 0.4111, 0.2335



74.2483, 0.4036, 0.4591



15.9099, 0.3204, 0.3156



11.1549, 0.4662, 0.2342

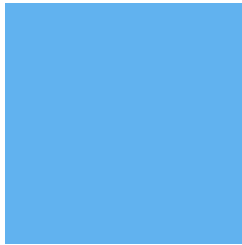


0.9479, 0.4418, 0.2207



# Previews

## White Background



This preview shows how the Yxy color 40.6142, 0.2213, 0.2467 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

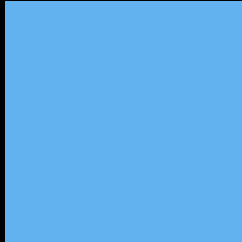
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.6142, 0.2213, 0.2467 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

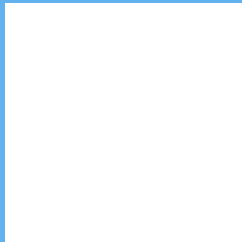
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.6142, 0.2213, 0.2467**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.6142, 0.2213, 0.2467.

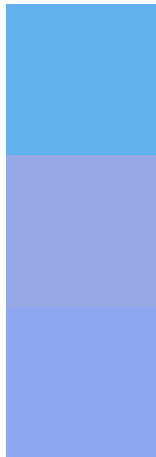


This preview shows how white text looks on a background with the Yxy color 40.6142, 0.2213, 0.2467.

# 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

40.6142, 0.2213, 0.2467

### Protanopia

40.3541, 0.2531, 0.2479

### Deuteranopia

40.2854, 0.2427, 0.2363



## Tritanopia

40.5735, 0.2346, 0.3062

# Trichromacy



## Original Color

40.6142, 0.2213, 0.2467

## Protanomaly

40.2709, 0.2393, 0.2474

## Deuteranomaly

40.3083, 0.2340, 0.2404

## Tritanomaly

40.2894, 0.2292, 0.2824

# Monochromacy



## Original Color

40.6142, 0.2213, 0.2467

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

36.7148, 0.2708, 0.2969

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.6142, 0.2213, 0.2467 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(97, 178, 239)` looks like.

```
.text, #text, p{  
    color:rgb(97, 178, 239)  
}
```

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(97, 178, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 178, 239) }
```

## Border

The CSS property to change the border of an element to Yxy 40.6142, 0.2213, 0.2467 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(97, 178, 239) }
```

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

```
.border{ border-color:rgb(97, 178, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 178, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 178, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 178, 239);  
box-shadow:4px 4px 4px 4px rgb(97, 178,  
239) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.6142, 0.2213, 0.2467 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 178, 239) }
```

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

```
.background{ background-color: rgb(97, 178,  
239) }
```

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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