

# Converting Colors

$Y_{xy}(51.5218, 0.2237, 0.2602)$

Have a look what the booklet for  
Yxy(51.5218, 0.2237, 0.2602)  
contains.

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# Color

**Yxy(51.3533, 0.2235, 0.2597)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66C8FF
RGB	102, 200, 255
RGB Percent	40%, 78%, 100%
CMY	0.5995, 0.2157, 0.0000
CMYK	0.60, 0.22, 0.00, 0.00
HSL	202°, 100%, 70%
HSV	202°, 60%, 100%
XYZ	44.1951, 51.3533, 102.1925
YIQ	176.9680, -76.0630, -3.6710

# Conversions

## Conversions Part 2

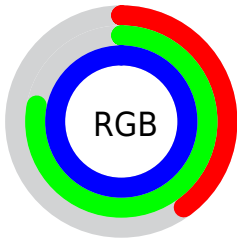
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	102, 162, 255
Decimal	6736127
CIELab	76.89, -13.04, -35.66
CIELCh	77, 37.966, 249.914
Yxy	51.3533, 0.2235, 0.2597
Android (android.graphics.Color)	4284926207 (0xFF66C8FF)
YUV	176.9680, 38.4698, -65.7469
Hunter-Lab	71.6612, -15.3222, -34.3876

# Details

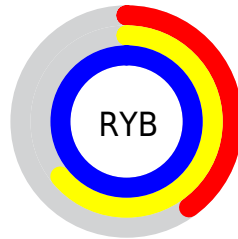
The Yxy color **51.3533, 0.2235, 0.2597** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **46.3879, 0.4616, 0.3842**, and the grayscale version is **43.7910, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.6325, 0.2624, 0.3289**, and **24.7734, 0.2021, 0.2414** is the 20% darker color. If you saturate the color by 10%, you get **45.9609, 0.2121, 0.2458**, and if you desaturate by 10%, it is **57.4623, 0.2365, 0.2733**.

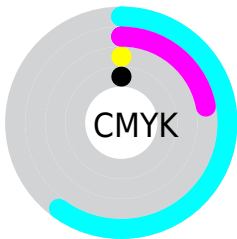
# Distribution



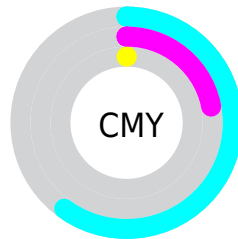
- Red (40%)
- Green (78%)
- Blue (100%)



- Red (40%)
- Yellow (64%)
- Blue (100%)



- Cyan (60%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (22%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.3533, 0.2235, 0.2597 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 51.3533, 0.2235, 0.2597 by changing the saturation by 10% instead.




 51.3533, 0.2235,  
0.2597

 51.3533, 0.2235,  
0.2597


391.9349, 0.2655,  
0.2936

 36.4899, 0.2139,  
0.2516


 92.1768, 0.2381,  
0.2718

 24.8128, 0.2022,  
0.2415


 118.9056, 0.2438,  
0.2764

 15.9376, 0.1874,  
0.2286


 150.3584, 0.2486,  
0.2803

 9.4800, 0.1685,  
0.2115

186.9195, 0.2529,  
0.2837

 5.0556, 0.1438,  
0.1884

228.9733, 0.2566,  
0.2867

 2.2799, 0.1109,  
0.1559

276.9042, 0.2599,

 0.7630, 0.0586,

0.2893

0.1099

331.0966, 0.2628,  
0.2916

0.0000, 0.0000,  
0.0000

51.3533, 0.2235,  
0.2597

51.3533, 0.2235,  
0.2597

45.9609, 0.2121,  
0.2458

57.4623, 0.2365,  
0.2733

41.2324, 0.2027,  
0.2317

64.3255, 0.2508,  
0.2862

37.1130, 0.1954,  
0.2178

71.9827, 0.2660,  
0.2983

33.5135, 0.1901,  
0.2042

80.4692, 0.2816,  
0.3096

33.4948, 0.1900,  
0.2041

89.8175, 0.2973,  
0.3198

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.



51.3533, 0.2214, 0.2922



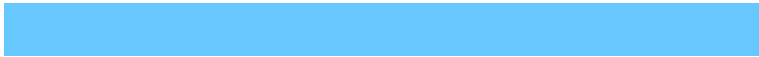
51.3533, 0.2235, 0.2597



51.3533, 0.2469, 0.2474

# Triad

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



51.3533, 0.2235, 0.2597



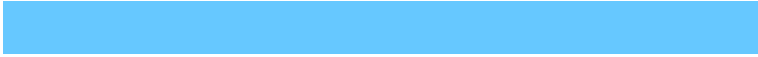
51.3533, 0.3879, 0.3122



51.3533, 0.3303, 0.4195

# Complementary

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



51.3533, 0.2235, 0.2597



46.3879, 0.4616, 0.3842

# 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.



51.3533, 0.3777, 0.4175



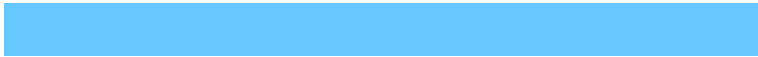
51.3533, 0.2235, 0.2597



51.3533, 0.4136, 0.3525

# Square

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



51.3533, 0.2235, 0.2597



51.3533, 0.3406, 0.2774



51.3533, 0.4091, 0.3910



51.3533, 0.2804, 0.3903



# Rectangle

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



51.3533, 0.2235, 0.2597



51.3533, 0.2730, 0.2501



51.3533, 0.4091, 0.3910



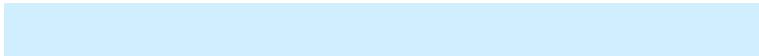
51.3533, 0.3471, 0.4223

# Sweetspot

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



51.3549, 0.2235, 0.2597



82.2193, 0.2846, 0.3116



76.7411, 0.2818, 0.4579



17.0406, 0.2800, 0.3085



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.



51.3549, 0.2235, 0.2597



44.9368, 0.2100, 0.2429



24.7375, 0.2014, 0.1613



19.3172, 0.2980, 0.3202



17.7950, 0.1907, 0.2063



1.9399, 0.1950, 0.2219



# Inverse Universe

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



34.9596, 0.3767, 0.2334



29.4883, 0.3956, 0.2214



79.9752, 0.4104, 0.4526



18.1829, 0.3194, 0.3139



12.5244, 0.4382, 0.2187

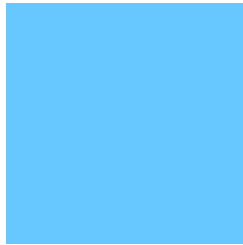


1.2404, 0.4212, 0.2094



# Previews

## White Background



This preview shows how the Yxy color 51.3533, 0.2235, 0.2597 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

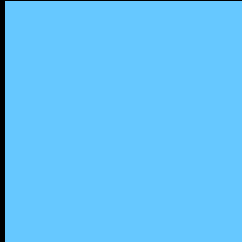
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.3533, 0.2235, 0.2597 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

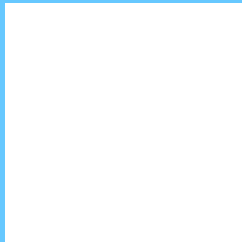
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 51.3533, 0.2235, 0.2597**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.3533, 0.2235, 0.2597.



This preview shows how white text looks on a background with the Yxy color 51.3533, 0.2235, 0.2597.

# 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

51.3533, 0.2235, 0.2597

### Protanopia

50.5946, 0.2625, 0.2590

### Deuteranopia

50.7728, 0.2542, 0.2484



## Tritanopia

51.4912, 0.2342, 0.3070

# Trichromacy



**Original Color**

51.3533, 0.2235, 0.2597

**Protanomaly**

50.3042, 0.2451, 0.2581

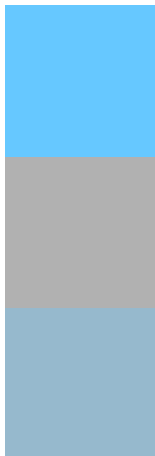
**Deuteranomaly**

50.5013, 0.2410, 0.2517

**Tritanomaly**

51.4534, 0.2301, 0.2890

# Monochromacy



**Original Color**

51.3533, 0.2235, 0.2597

**Achromatopsia**

43.9657, 0.3127, 0.3290

**Achromatomaly**

45.5897, 0.2713, 0.3020

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.3533, 0.2235, 0.2597 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, 200, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 200, 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, 200, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 200, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 51.3533, 0.2235, 0.2597 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, 200, 255) }
```

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

```
.border{ border-color:rgb(102, 200, 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, 200, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 200, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 200, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 200,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.3533, 0.2235, 0.2597 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 200, 255) }
```

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

```
.background{ background-color: rgb(102,  
200, 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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