

# Converting Colors

$Y_{xy}(51.9090, 0.2142, 0.2643)$

Have a look what the booklet for  
Yxy(51.9090, 0.2142, 0.2643)  
contains.

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# Color

**Yxy(52.0409, 0.2143, 0.2647)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42CDFF
RGB	66, 205, 255
RGB Percent	26%, 80%, 100%
CMY	0.7408, 0.1961, 0.0000
CMYK	0.74, 0.20, 0.00, 0.00
HSL	196°, 100%, 63%
HSV	196°, 74%, 100%
XYZ	42.1321, 52.0409, 102.4303
YIQ	169.1390, -98.8940, -13.9180

# Conversions

## Conversions Part 2

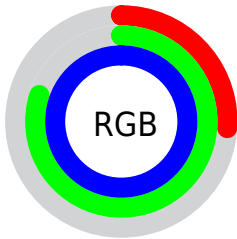
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	66, 146, 255
Decimal	4378111
CIE Lab	77.31, -20.94, -35.10
CIE LCh	77, 40.870, 239.177
Yxy	52.0409, 0.2143, 0.2647
Android (android.graphics.Color)	4282568191 (0xFF42CDFF)
YUV	169.1390, 42.3295, -90.4529
Hunter-Lab	72.1394, -21.9932, -33.6880

# Details

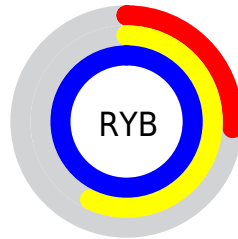
The Yxy color **52.0409, 0.2143, 0.2647** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **34.1685, 0.5278, 0.3720**, and the grayscale version is **39.5859, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.1433, 0.2512, 0.3288**, and **26.2104, 0.2028, 0.2500** is the 20% darker color. If you saturate the color by 10%, you get **48.1843, 0.2072, 0.2546**, and if you desaturate by 10%, it is **56.4351, 0.2235, 0.2747**.

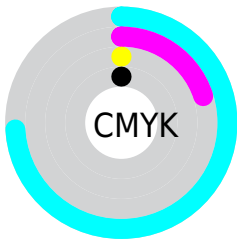
# Distribution



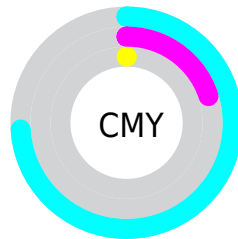
- Red (26%)
- Green (80%)
- Blue (100%)



- Red (26%)
- Yellow (57%)
- Blue (100%)



- Cyan (74%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)




- Cyan (74%)
- Magenta (20%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.0409, 0.2143, 0.2647 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 52.0409, 0.2143, 0.2647 by changing the saturation by 10% instead.




 52.0409, 0.2143,  
0.2647


 52.0409, 0.2143,  
0.2647


394.5945, 0.2602,  
0.2967


 37.0377, 0.2039,  
0.2570


 93.1916, 0.2302,  
0.2762

 25.2367, 0.1913,  
0.2472


 120.1078, 0.2364,  
0.2805

 16.2535, 0.1755,  
0.2347


 151.7638, 0.2417,  
0.2843

 9.7037, 0.1556,  
0.2180

 188.5440, 0.2464,  
0.2874

 5.2029, 0.1298,  
0.1951

230.8328, 0.2504,  
0.2902

 2.3668, 0.0964,  
0.1627

279.0145, 0.2541,

 0.8087, 0.0375,

0.2927

0.1177

333.4736, 0.2573,  
0.2948

0.0000, 0.0000,  
0.0000

52.0409, 0.2143,  
0.2647

52.0409, 0.2143,  
0.2647

48.1843, 0.2072,  
0.2546

56.4351, 0.2235,  
0.2747

44.8011, 0.2020,  
0.2447

61.4095, 0.2345,  
0.2846

42.9732, 0.1997,  
0.2389

67.0076, 0.2471,  
0.2940

73.2668, 0.2609,  
0.3030

80.2208, 0.2756,  
0.3115

■ 87.9008, 0.2909,  
0.3192

■ 96.3358, 0.3064,  
0.3263

■ 99.9999, 0.3127,  
0.3290

# Harmonies

## Analogous

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



52.0409, 0.2203, 0.3063



52.0409, 0.2143, 0.2647



52.0409, 0.2312, 0.2443

# Triad

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



52.0409, 0.2143, 0.2647



52.0409, 0.3769, 0.2966



52.0409, 0.3504, 0.4293

# Complementary

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



52.0409, 0.2143, 0.2647



34.1685, 0.5278, 0.3720

# 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.



52.0409, 0.3967, 0.4155



52.0409, 0.2143, 0.2647



52.0409, 0.4145, 0.3380

# Square

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



52.0409, 0.2143, 0.2647



52.0409, 0.3220, 0.2636



52.0409, 0.4213, 0.3806



52.0409, 0.2963, 0.4100



# Rectangle

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



52.0409, 0.2143, 0.2647



52.0409, 0.2543, 0.2424



52.0409, 0.4213, 0.3806



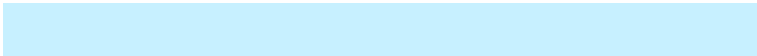
52.0409, 0.3674, 0.4280

# Sweetspot

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



52.0427, 0.2143, 0.2647



81.7571, 0.2788, 0.3131



73.8807, 0.2874, 0.5177



17.0719, 0.2747, 0.3110



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.



52.0427, 0.2143, 0.2647



46.4645, 0.2044, 0.2497



20.2643, 0.1827, 0.1411



19.6200, 0.2980, 0.3226



22.7121, 0.2001, 0.2405



2.3904, 0.2033, 0.2518



# Inverse Universe

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



29.5755, 0.3754, 0.2048



26.0297, 0.3918, 0.1981



66.6561, 0.4433, 0.4565



18.2134, 0.3179, 0.3117



13.0208, 0.4018, 0.1987

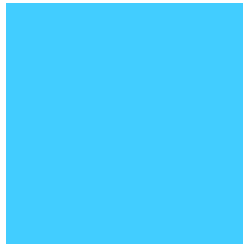


1.2859, 0.3904, 0.1925



# Previews

## White Background



This preview shows how the Yxy color 52.0409, 0.2143, 0.2647 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

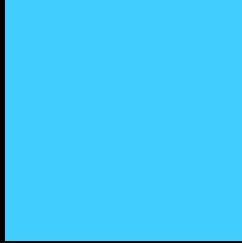
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.0409, 0.2143, 0.2647 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

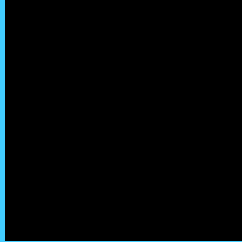
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

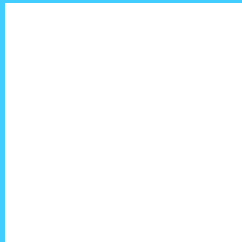
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 52.0409, 0.2143, 0.2647**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.0409, 0.2143, 0.2647.

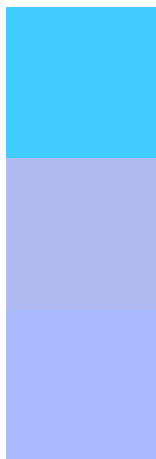


This preview shows how white text looks on a background with the Yxy color 52.0409, 0.2143, 0.2647.

# 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

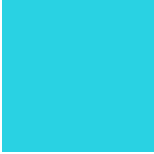
52.0409, 0.2143, 0.2647

### Protanopia

51.1816, 0.2664, 0.2638

### Deuteranopia

51.3067, 0.2550, 0.2497



## **Tritanopia**

52.1107, 0.2216, 0.3053

# Trichromacy



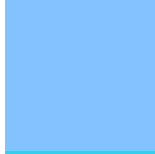
## Original Color

52.0409, 0.2143, 0.2647



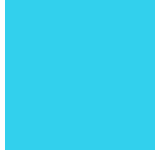
## Protanomaly

50.5332, 0.2407, 0.2631



## Deuteranomaly

50.7091, 0.2349, 0.2542



## Tritanomaly

51.9043, 0.2186, 0.2897

# Monochromacy



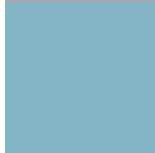
## Original Color

52.0409, 0.2143, 0.2647



## Achromatopsia

39.6755, 0.3127, 0.3290



## Achromatomaly

42.5316, 0.2617, 0.3035

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.0409, 0.2143, 0.2647 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(66, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(66, 205, 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(66, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 205, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 52.0409, 0.2143, 0.2647 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(66, 205, 255) }
```

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

```
.border{ border-color:rgb(66, 205, 255) }
```

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

Here you see how a box with a 4 pixel rgb(66, 205, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 205, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 205, 255);  
box-shadow:4px 4px 4px 4px rgb(66, 205,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.0409, 0.2143, 0.2647 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 205, 255) }
```

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

```
.background{ background-color: rgb(66, 205,  
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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