

# Converting Colors

$Y_{xy}(42.5103, 0.2038, 0.2360)$

Have a look what the booklet for  
Yxy(42.5103, 0.2038, 0.2360)  
contains.

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# Color

**Yxy(42.6217, 0.2039, 0.2364)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33B9FF
RGB	51, 185, 255
RGB Percent	20%, 73%, 100%
CMY	0.8004, 0.2745, 0.0000
CMYK	0.80, 0.27, 0.00, 0.00
HSL	201°, 100%, 60%
HSV	201°, 80%, 100%
XYZ	36.7621, 42.6217, 100.9110
YIQ	152.9140, -102.3340, -6.6380

# Conversions

## Conversions Part 2

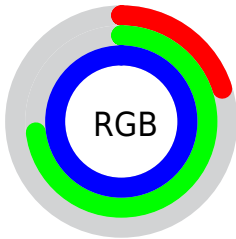
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 132, 255
Decimal	3389951
CIE <sub>Lab</sub>	71.30, -11.98, -44.48
CIE <sub>LCh</sub>	71, 46.068, 254.922
Yxy	42.6217, 0.2039, 0.2364
Android (android.graphics.Color)	4281580031 (0xFF33B9FF)
YUV	152.9140, 50.3284, -89.3786
Hunter-Lab	65.2853, -13.7360, -45.9444

# Details

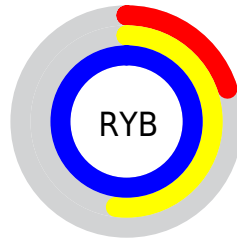
The Yxy color **42.6217, 0.2039, 0.2364** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **35.1485, 0.5339, 0.3856**, and the grayscale version is **31.6152, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.7198, 0.2443, 0.3125**, and **20.5797, 0.1932, 0.2156** is the 20% darker color. If you saturate the color by 10%, you get **38.5851, 0.1969, 0.2232**, and if you desaturate by 10%, it is **47.2463, 0.2131, 0.2498**.

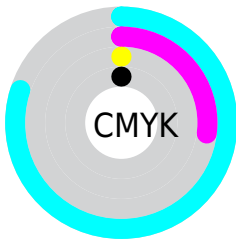
# Distribution



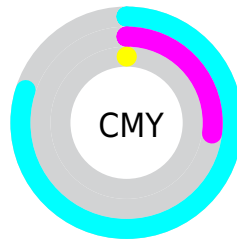
- Red (20%)
- Green (73%)
- Blue (100%)



- Red (20%)
- Yellow (52%)
- Blue (100%)



- Cyan (80%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (27%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.6217, 0.2039, 0.2364 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 42.6217, 0.2039, 0.2364 by changing the saturation by 10% instead.




 42.6217, 0.2039,  
0.2364


 42.6217, 0.2039,  
0.2364


357.0537, 0.2558,  
0.2822


 29.5884, 0.1920,  
0.2255


 79.1397, 0.2220,  
0.2527


 19.5264, 0.1774,  
0.2119


 103.3932, 0.2291,  
0.2590

 12.0512, 0.1593,  
0.1946


 132.1555, 0.2351,  
0.2643

 6.7786, 0.1364,  
0.1721

 165.8111, 0.2404,  
0.2689

 3.3240, 0.1072,  
0.1423

204.7443, 0.2449,  
0.2729

 1.3031, 0.0710,  
0.1031

249.3395, 0.2490,

 0.1436, 0.0000,

0.2764

0.0251

299.9812, 0.2526,  
0.2795

■ 0.0000, 0.0000,  
0.0000

■ 42.6217, 0.2039,  
0.2364

■ 42.6217, 0.2039,  
0.2364

■ 38.5851, 0.1969,  
0.2232

■ 47.2463, 0.2131,  
0.2498

■ 35.0588, 0.1918,  
0.2103

■ 52.5139, 0.2242,  
0.2630

■ 58.4721, 0.2369,  
0.2759

■ 65.1628, 0.2510,  
0.2882

■ 72.6237, 0.2660,  
0.2997

■ 80.8893, 0.2815,  
0.3104

■ 89.9919, 0.2971,  
0.3202

99.9616, 0.3127,  
0.3290

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.



42.6217, 0.1966, 0.2716



42.6217, 0.2039, 0.2364



42.6217, 0.2365, 0.2267

# Triad

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



42.6217, 0.2039, 0.2364



42.6217, 0.4180, 0.3144



42.6217, 0.3224, 0.4449

# Complementary

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



42.6217, 0.2039, 0.2364



35.1485, 0.5339, 0.3856

# 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.



42.6217, 0.3848, 0.4457



42.6217, 0.2039, 0.2364



42.6217, 0.4445, 0.3644

# Square

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



42.6217, 0.2039, 0.2364



42.6217, 0.3593, 0.2703



42.6217, 0.4306, 0.4124



42.6217, 0.2606, 0.3999



# Rectangle

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



42.6217, 0.2039, 0.2364



42.6217, 0.2711, 0.2328



42.6217, 0.4306, 0.4124



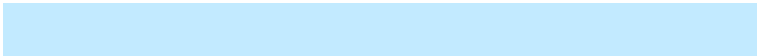
42.6217, 0.3440, 0.4501

# Sweetspot

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



42.6220, 0.2039, 0.2364



77.5151, 0.2753, 0.3063



73.5518, 0.2819, 0.5126



15.9658, 0.2698, 0.3025



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

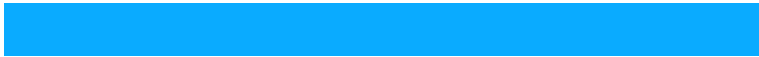


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



42.6220, 0.2039, 0.2364



36.4292, 0.1937, 0.2154



14.4060, 0.1700, 0.1081



19.3708, 0.2980, 0.3207



18.6078, 0.1924, 0.2124



2.0153, 0.1965, 0.2273



# Inverse Universe

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



27.1225, 0.4038, 0.2140



24.4235, 0.4279, 0.2146



73.2028, 0.4379, 0.4736



18.1883, 0.3191, 0.3135



12.6064, 0.4314, 0.2150

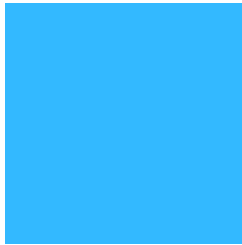


1.2480, 0.4155, 0.2063



# Previews

## White Background



This preview shows how the Yxy color 42.6217, 0.2039, 0.2364 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

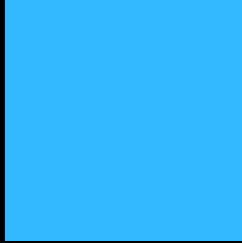
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.6217, 0.2039, 0.2364 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

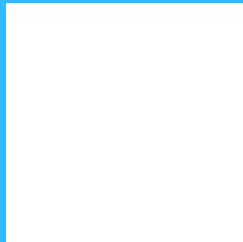
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.6217, 0.2039, 0.2364**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.6217, 0.2039, 0.2364.



This preview shows how white text looks on a background with the Yxy color 42.6217, 0.2039, 0.2364.

# 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

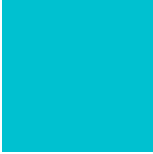
42.6217, 0.2039, 0.2364

### Protanopia

42.1762, 0.2467, 0.2392

### Deuteranopia

42.0434, 0.2323, 0.2265



## Tritanopia

42.6940, 0.2184, 0.3061

# Trichromacy



**Original Color**

42.6217, 0.2039, 0.2364

**Protanomaly**

41.4109, 0.2254, 0.2370

**Deuteranomaly**

41.7285, 0.2182, 0.2293

**Tritanomaly**

42.4016, 0.2118, 0.2782

# Monochromacy



**Original Color**

42.6217, 0.2039, 0.2364

**Achromatopsia**

31.8547, 0.3127, 0.3290

**Achromatomaly**

34.3410, 0.2537, 0.2909

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.6217, 0.2039, 0.2364 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(51, 185, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 185, 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(51, 185, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 185, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.6217, 0.2039, 0.2364 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(51, 185, 255) }
```

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

```
.border{ border-color:rgb(51, 185, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 185, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(51, 185, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(51, 185, 255); box-shadow:4px 4px 4px 4px rgb(51, 185, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.6217, 0.2039, 0.2364 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 185, 255) }
```

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

```
.background{ background-color: rgb(51, 185,  
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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