

# Converting Colors

$Y_{xy}(42.1244, 0.2072, 0.2337)$

Have a look what the booklet for  
Yxy(42.1244, 0.2072, 0.2337)  
contains.

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# Color

**Yxy(41.9411, 0.2069, 0.2331)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45B6FF
RGB	69, 182, 255
RGB Percent	27%, 71%, 100%
CMY	0.7300, 0.2862, 0.0000
CMYK	0.73, 0.29, 0.00, 0.00
HSL	204°, 100%, 64%
HSV	204°, 73%, 100%
XYZ	37.2270, 41.9411, 100.7594
YIQ	156.5350, -90.7810, -1.2530

# Conversions

## Conversions Part 2

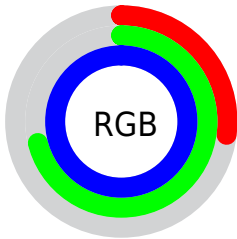
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	69, 139, 255
Decimal	4568831
CIE Lab	70.83, -8.44, -45.19
CIE LCh	71, 45.971, 259.420
Yxy	41.9411, 0.2069, 0.2331
Android (android.graphics.Color)	4282758911 (0xFF45B6FF)
YUV	156.5350, 48.5432, -76.7682
Hunter-Lab	64.7619, -10.7266, -46.9125

# Details

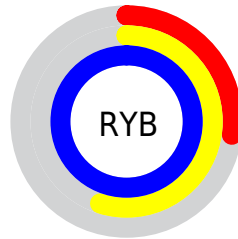
The Yxy color **41.9411, 0.2069, 0.2331** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **40.9891, 0.5009, 0.3952**, and the grayscale version is **33.2901, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.8580, 0.2481, 0.3092**, and **19.7777, 0.1917, 0.2101** is the 20% darker color. If you saturate the color by 10%, you get **37.2516, 0.1977, 0.2177**, and if you desaturate by 10%, it is **47.3230, 0.2182, 0.2485**.

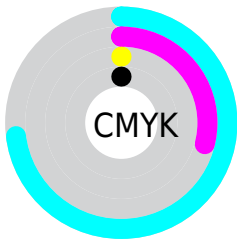
# Distribution



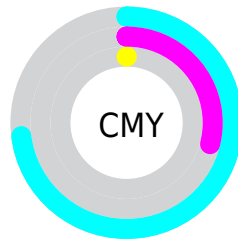
- Red (27%)
- Green (71%)
- Blue (100%)



- Red (27%)
- Yellow (55%)
- Blue (100%)



- Cyan (73%)
- Magenta (29%)
- Yellow (0%)
- Black (0%)



- Cyan (73%)
- Magenta (29%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.9411, 0.2069, 0.2331 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 41.9411, 0.2069, 0.2331 by changing the saturation by 10% instead.



41.9411, 0.2069,  
0.2331

41.9411, 0.2069,  
0.2331

354.2387, 0.2577,  
0.2803

29.0552, 0.1952,  
0.2219

78.1105, 0.2247,  
0.2499

19.1226, 0.1808,  
0.2080

102.1627, 0.2316,  
0.2563

11.7589, 0.1629,  
0.1904

130.7058, 0.2375,  
0.2618

6.5797, 0.1401,  
0.1676

164.1243, 0.2426,  
0.2665

3.2007, 0.1110,  
0.1376

202.8024, 0.2471,  
0.2706

1.2374, 0.0745,  
0.0983

247.1245, 0.2510,

0.0919, 0.0000,

0.2742

0.0163

297.4752, 0.2545,  
0.2775

■ 0.0000, 0.0000,  
0.0000

■ 41.9411, 0.2069,  
0.2331

■ 41.9411, 0.2069,  
0.2331

■ 37.2516, 0.1977,  
0.2177

■ 47.3230, 0.2182,  
0.2485

■ 33.1930, 0.1906,  
0.2027

■ 53.4490, 0.2313,  
0.2636

■ 30.6662, 0.1868,  
0.1924

■ 60.3641, 0.2456,  
0.2780

■ 68.1092, 0.2609,  
0.2916

■ 76.7214, 0.2766,  
0.3042

■ 86.2355, 0.2924,  
0.3157

■ 96.6838, 0.3081,  
0.3261

■ 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.



41.9411, 0.1957, 0.2644



41.9411, 0.2069, 0.2331



41.9411, 0.2432, 0.2269

# Triad

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



41.9411, 0.2069, 0.2331



41.9411, 0.4248, 0.3217



41.9411, 0.3126, 0.4412

# Complementary

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



41.9411, 0.2069, 0.2331



40.9891, 0.5009, 0.3952

# 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.



41.9411, 0.3763, 0.4486



41.9411, 0.2069, 0.2331



41.9411, 0.4453, 0.3720

# Square

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



41.9411, 0.2069, 0.2331



41.9411, 0.3695, 0.2761



41.9411, 0.4258, 0.4190



41.9411, 0.2523, 0.3905



# Rectangle

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



41.9411, 0.2069, 0.2331



41.9411, 0.2800, 0.2351



41.9411, 0.4258, 0.4190



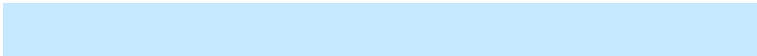
41.9411, 0.3343, 0.4488

# Sweetspot

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



41.9411, 0.2069, 0.2331



77.6276, 0.2782, 0.3054



74.6799, 0.2777, 0.4828



16.0917, 0.2739, 0.3021



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.



41.9411, 0.2069, 0.2331



35.1460, 0.1939, 0.2101



15.8903, 0.1773, 0.1164



19.2156, 0.2979, 0.3195



16.3229, 0.1875, 0.1948



1.8022, 0.1921, 0.2117



# Inverse Universe

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



28.8771, 0.4054, 0.2260



25.0096, 0.4327, 0.2222



80.1266, 0.4234, 0.4742



18.1726, 0.3199, 0.3146



12.3758, 0.4512, 0.2259

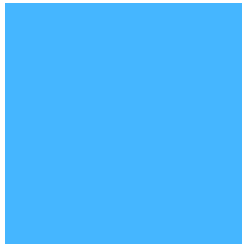


1.2265, 0.4322, 0.2155



# Previews

## White Background



This preview shows how the Yxy color 41.9411, 0.2069, 0.2331 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

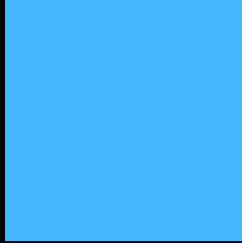
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.9411, 0.2069, 0.2331 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

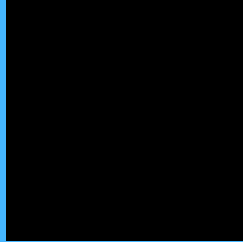
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

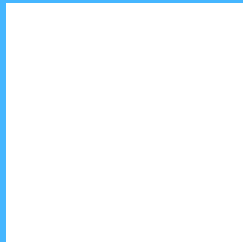
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 41.9411, 0.2069, 0.2331**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.9411, 0.2069, 0.2331.



This preview shows how white text looks on a background with the Yxy color 41.9411, 0.2069, 0.2331.

# 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

41.9411, 0.2069, 0.2331

### Protanopia

41.2644, 0.2433, 0.2341

### Deuteranopia

41.4967, 0.2310, 0.2249



## Tritanopia

41.8768, 0.2189, 0.3045

# Trichromacy



**Original Color**

41.9411, 0.2069, 0.2331

**Protanomaly**

41.0336, 0.2260, 0.2327

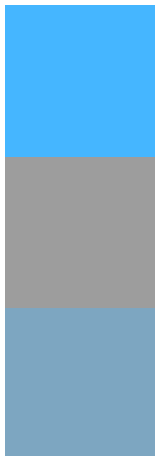
**Deuteranomaly**

41.2595, 0.2198, 0.2271

**Tritanomaly**

41.7056, 0.2132, 0.2767

# Monochromacy



**Original Color**

41.9411, 0.2069, 0.2331

**Achromatopsia**

33.7164, 0.3127, 0.3290

**Achromatomaly**

35.4827, 0.2582, 0.2889

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.9411, 0.2069, 0.2331 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(69, 182, 255)` looks like.

```
.text, #text, p{  
    color:rgb(69, 182, 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(69, 182, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 182, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 41.9411, 0.2069, 0.2331 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(69, 182, 255) }
```

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

```
.border{ border-color:rgb(69, 182, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 182, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 182, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 182, 255);  
box-shadow:4px 4px 4px 4px rgb(69, 182,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.9411, 0.2069, 0.2331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 182, 255) }
```

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

```
.background{ background-color: rgb(69, 182,  
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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