

# Converting Colors

$Y_{xy}(49.2422, 0.2109, 0.2656)$

Have a look what the booklet for  
Yxy(49.2422, 0.2109, 0.2656)  
contains.

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# Color

**Yxy(49.1707, 0.2108, 0.2654)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DC9F9
RGB	45, 201, 249
RGB Percent	18%, 79%, 98%
CMY	0.8248, 0.2117, 0.0236
CMYK	0.82, 0.19, 0.00, 0.02
HSL	194°, 94%, 58%
HSV	194°, 82%, 98%
XYZ	39.0549, 49.1707, 97.0445
YIQ	159.8280, -108.3840, -18.1440

# Conversions

## Conversions Part 2

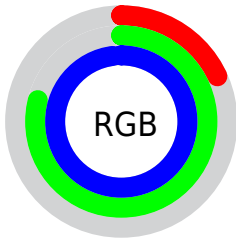
Format	Color
R <sub>Y</sub> B	45, 133, 249
Decimal	3000825
CIE Lab	75.56, -22.92, -34.61
CIE LCh	76, 41.517, 236.485
Yxy	49.1707, 0.2108, 0.2654
Android (android.graphics.Color)	4281190905 (0xFF2DC9F9)
YUV	159.8280, 43.9618, -100.7042
Hunter-Lab	70.1218, -23.2961, -32.9686

# Details

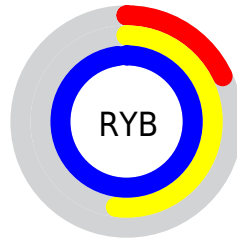
The Yxy color **49.1707, 0.2108, 0.2654** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **28.0912, 0.5632, 0.3644**, and the grayscale version is **34.8603, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.1000, 0.2464, 0.3288**, and **24.6732, 0.2031, 0.2513** is the 20% darker color. If you saturate the color by 10%, you get **46.0940, 0.2057, 0.2567**, and if you desaturate by 10%, it is **52.6862, 0.2179, 0.2742**.

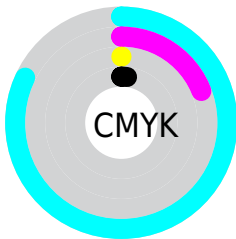
# Distribution



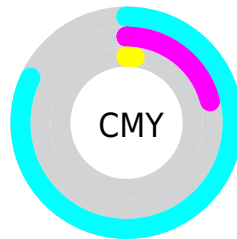
- Red (18%)
- Green (79%)
- Blue (98%)



- Red (18%)
- Yellow (52%)
- Blue (98%)



- Cyan (82%)
- Magenta (19%)
- Yellow (0%)
- Black (2%)




- Cyan (82%)
- Magenta (21%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.1707, 0.2108, 0.2654 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 49.1707, 0.2108, 0.2654 by changing the saturation by 10% instead.





 49.1707, 0.2108,  
0.2654

 49.1707, 0.2108,  
0.2654


383.4139, 0.2587,  
0.2975

 34.7549, 0.1999,  
0.2575


 88.9449, 0.2274,  
0.2770


 23.4741, 0.1866,  
0.2475


 115.0722, 0.2339,  
0.2814

 14.9440, 0.1700,  
0.2345


 145.8720, 0.2395,  
0.2851

 8.7801, 0.1489,  
0.2171

 181.7288, 0.2443,  
0.2883

 4.5980, 0.1216,  
0.1930

223.0270, 0.2486,  
0.2911

 2.0134, 0.0865,  
0.1583

270.1510, 0.2523,

 0.6152, 0.0044,

0.2935

0.1084

323.4852, 0.2557,  
0.2957

■ 0.0000, 0.0000,  
0.0000

■ 49.1707, 0.2108,  
0.2654

■ 49.1707, 0.2108,  
0.2654

■ 46.0940, 0.2057,  
0.2567

■ 52.6862, 0.2179,  
0.2742

■ 43.8964, 0.2027,  
0.2498

■ 56.6876, 0.2270,  
0.2830

■ 61.2199, 0.2380,  
0.2915

■ 66.3212, 0.2505,  
0.2998

■ 72.0253, 0.2642,  
0.3076

■ 78.3631, 0.2788,  
0.3149

■ 85.3631, 0.2941,  
0.3217

■ 93.0519, 0.3095,  
0.3278

■ 98.7491, 0.3163,  
0.3334

# Harmonies

## Analogous

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



49.1707, 0.2191, 0.3101



49.1707, 0.2108, 0.2654



49.1707, 0.2261, 0.2425

# Triad

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



49.1707, 0.2108, 0.2654



49.1707, 0.3745, 0.2920



49.1707, 0.3563, 0.4330

# Complementary

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



49.1707, 0.2108, 0.2654



28.0912, 0.5632, 0.3644

# 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.



49.1707, 0.4028, 0.4157



49.1707, 0.2108, 0.2654



49.1707, 0.4159, 0.3340

# Square

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



49.1707, 0.2108, 0.2654



49.1707, 0.3170, 0.2592



49.1707, 0.4258, 0.3782



49.1707, 0.3005, 0.4164



# Rectangle

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



49.1707, 0.2108, 0.2654



49.1707, 0.2486, 0.2395



49.1707, 0.4258, 0.3782



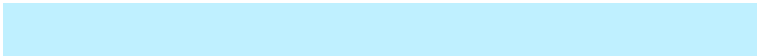
49.1707, 0.3736, 0.4304

# Sweetspot

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



49.1724, 0.2108, 0.2654



80.6684, 0.2744, 0.3128



69.0736, 0.2892, 0.5415



16.7612, 0.2693, 0.3102



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.



49.1724, 0.2108, 0.2654



46.8814, 0.2034, 0.2514



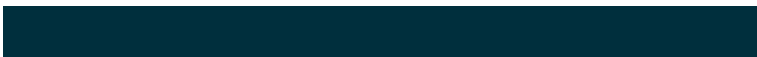
16.3436, 0.1734, 0.1252



18.8772, 0.2980, 0.3233



23.7282, 0.2031, 0.2512



2.3587, 0.2060, 0.2616



# Inverse Universe

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



26.2079, 0.3760, 0.1950



25.3712, 0.3907, 0.1933



59.1336, 0.4575, 0.4590



17.4508, 0.3174, 0.3110



12.8063, 0.3910, 0.1928

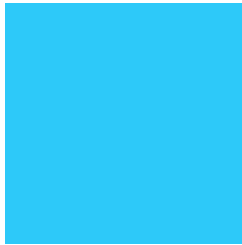


1.2023, 0.3809, 0.1872



# Previews

## White Background



This preview shows how the Yxy color 49.1707, 0.2108, 0.2654 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

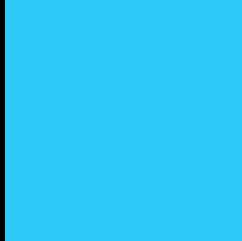
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.1707, 0.2108, 0.2654 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

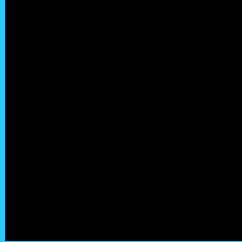
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.1707, 0.2108, 0.2654**

## Background



This preview shows how black text looks on a background with the Yxy color 49.1707, 0.2108, 0.2654.



This preview shows how white text looks on a background with the Yxy color 49.1707, 0.2108, 0.2654.

# 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

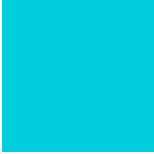
49.1707, 0.2108, 0.2654

### Protanopia

48.5231, 0.2668, 0.2657

### Deuteranopia

48.3343, 0.2509, 0.2447



## Tritanopia

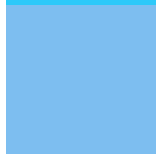
48.9366, 0.2180, 0.3046

# Trichromacy



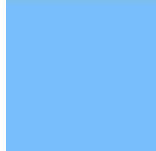
## Original Color

49.1707, 0.2108, 0.2654



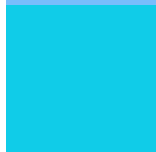
## Protanomaly

47.4782, 0.2374, 0.2646



## Deuteranomaly

47.4165, 0.2292, 0.2497



## Tritanomaly

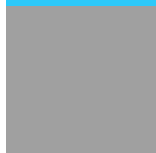
49.1221, 0.2147, 0.2900

# Monochromacy



## Original Color

49.1707, 0.2108, 0.2654



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

38.3173, 0.2561, 0.3036

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.1707, 0.2108, 0.2654 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(45, 201, 249)` looks like.

```
.text, #text, p{  
    color:rgb(45, 201, 249)  
}
```

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(45, 201, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 201, 249) }
```

## Border

The CSS property to change the border of an element to Yxy 49.1707, 0.2108, 0.2654 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(45, 201, 249) }
```

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

```
.border{ border-color:rgb(45, 201, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 201, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 201, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 201, 249);  
box-shadow:4px 4px 4px 4px rgb(45, 201,  
249) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.1707, 0.2108, 0.2654 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 201, 249) }
```

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

```
.background{ background-color: rgb(45, 201,  
249) }
```

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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