

# Converting Colors

$Y_{xy}(74.4401, 0.2231, 0.3201)$

Have a look what the booklet for  
Yxy(74.4401, 0.2231, 0.3201)  
contains.

<b>Yxy(74.5142, 0.2232, 0.3202)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(74.5142, 0.2232, 0.3202)**

# Conversions

## Conversions Part 1

Format	Color
Hex	16F8FF
RGB	22, 248, 255
RGB Percent	9%, 97%, 100%
CMY	0.9140, 0.0275, 0.0000
CMYK	0.91, 0.03, 0.00, 0.00
HSL	182°, 100%, 54%
HSV	182°, 91%, 100%
XYZ	51.9412, 74.5142, 106.2560
YIQ	181.2240, -136.9430, -45.7350

# Conversions

## Conversions Part 2

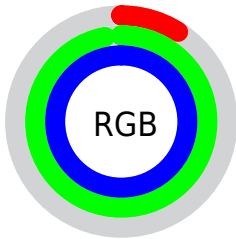
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	22, 137, 255
Decimal	1505535
CIE Lab	89.16, -44.51, -17.06
CIE LCh	89, 47.670, 200.969
Yxy	74.5142, 0.2232, 0.3202
Android (android.graphics.Color)	4279695615 (0xFF16F8FF)
YUV	181.2240, 36.3716, -139.6394
Hunter-Lab	86.3216, -43.6563, -12.5568

# Details

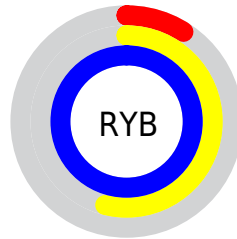
The Yxy color **74.5142, 0.2232, 0.3202** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **22.1931, 0.6256, 0.3320**, and the grayscale version is **46.1730, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0251, 0.2460, 0.3288**, and **41.3388, 0.2216, 0.3179** is the 20% darker color. If you saturate the color by 10%, you get **73.9421, 0.2221, 0.3194**, and if you desaturate by 10%, it is **75.4340, 0.2259, 0.3212**.

# Distribution



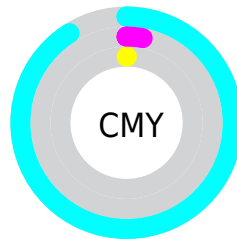
- Red (9%)
- Green (97%)
- Blue (100%)



- Red (9%)
- Yellow (54%)
- Blue (100%)



- Cyan (91%)
- Magenta (3%)
- Yellow (0%)
- Black (0%)




- Cyan (91%)
- Magenta (3%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 74.5142, 0.2232, 0.3202 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 74.5142, 0.2232, 0.3202 by changing the saturation by 10% instead.




 74.5142, 0.2232,  
0.3202

 74.5142, 0.2232,  
0.3202


476.2462, 0.2630,  
0.3257

 55.2150, 0.2146,  
0.3186

 125.6245, 0.2366,  
0.3224


 39.5739, 0.2042,  
0.3165


 158.2043, 0.2420,  
0.3231

 27.2065, 0.1914,  
0.3137


 195.9798, 0.2466,  
0.3238

 17.7283, 0.1753,  
0.3096

 239.3354, 0.2507,  
0.3243

 10.7551, 0.1548,  
0.3034

288.6554, 0.2543,  
0.3247

 5.9024, 0.1280,  
0.2934

344.3243, 0.2575,

 2.7858, 0.0924,

0.3251

0.2758

406.7264, 0.2604,  
0.3254

■ 1.0210, 0.0000,  
0.2535

■ 0.0000, 0.0000,  
0.0000

■ 74.5142, 0.2232,  
0.3202

■ 74.5142, 0.2232,  
0.3202


■ 73.9421, 0.2221,  
0.3194

■ 75.4340, 0.2259,  
0.3212


■ 76.7077, 0.2303,  
0.3222


■ 78.3911, 0.2367,  
0.3232


■ 80.5287, 0.2451,  
0.3243

 83.1592, 0.2553,  
0.3253

 86.3172, 0.2673,  
0.3263

 90.0342, 0.2806,  
0.3272

 94.3391, 0.2951,  
0.3281

 99.2589, 0.3105,  
0.3289

# Harmonies

## Analogous

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



74.5142, 0.2588, 0.3783



74.5142, 0.2232, 0.3202



74.5142, 0.2106, 0.2721

# Triad

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



74.5142, 0.2232, 0.3202



74.5142, 0.3063, 0.2546



74.5142, 0.4091, 0.4098

# Complementary

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



74.5142, 0.2232, 0.3202



22.1931, 0.6256, 0.3320

# 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.



74.5142, 0.4266, 0.3703



74.5142, 0.2232, 0.3202



74.5142, 0.3645, 0.2851

# Square

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



74.5142, 0.2232, 0.3202



74.5142, 0.2549, 0.2401



74.5142, 0.4103, 0.3259



74.5142, 0.3660, 0.4320



# Rectangle

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



74.5142, 0.2232, 0.3202



74.5142, 0.2153, 0.2516



74.5142, 0.4103, 0.3259



74.5142, 0.4184, 0.3978

# Sweetspot

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



74.5166, 0.2232, 0.3202



87.8833, 0.2730, 0.3267



71.7634, 0.2999, 0.5934



18.5487, 0.2685, 0.3264



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.



74.5166, 0.2232, 0.3202



73.9421, 0.2221, 0.3194



24.5996, 0.1805, 0.1645



20.3821, 0.2980, 0.3282



38.6783, 0.2221, 0.3195



3.7943, 0.2224, 0.3207



# Inverse Universe

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



28.6073, 0.3279, 0.1604



27.9956, 0.3287, 0.1585



40.7666, 0.5226, 0.4168



18.2904, 0.3143, 0.3063



14.6326, 0.3286, 0.1584

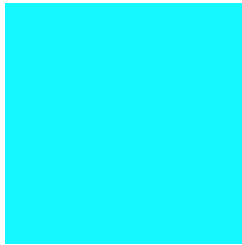


1.4276, 0.3276, 0.1579



# Previews

## White Background



This preview shows how the Yxy color 74.5142, 0.2232, 0.3202 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

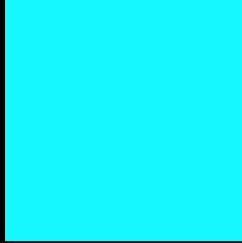
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 74.5142, 0.2232, 0.3202 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

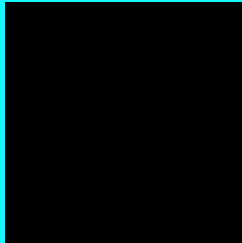
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 74.5142, 0.2232, 0.3202**

## **Background**



This preview shows how black text looks on a background with the Yxy color 74.5142, 0.2232, 0.3202.

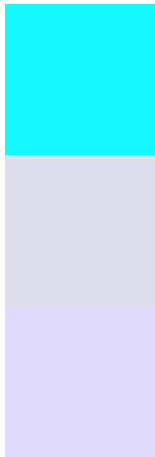


This preview shows how white text looks on a background with the Yxy color 74.5142, 0.2232, 0.3202.

# 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

74.5254, 0.2232, 0.3202

### Protanopia

73.2581, 0.3018, 0.3109

### Deuteranopia

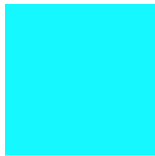
73.2101, 0.2932, 0.2906



## Tritanopia

74.0522, 0.2437, 0.3113

# Trichromacy



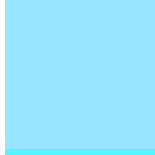
## Original Color

74.5254, 0.2232, 0.3202



## Protanomaly

70.0730, 0.2564, 0.3136



## Deuteranomaly

69.8379, 0.2518, 0.2989



## Tritanomaly

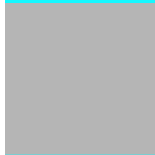
73.4450, 0.2321, 0.3144

# Monochromacy



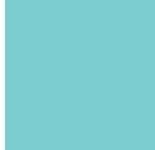
## Original Color

74.5254, 0.2232, 0.3202



## Achromatopsia

46.2077, 0.3127, 0.3290



## Achromatomaly

52.4277, 0.2564, 0.3248

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 74.5142, 0.2232, 0.3202 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(22, 248, 255)` looks like.

```
.text, #text, p{  
    color:rgb(22, 248, 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(22, 248, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 248, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 74.5142, 0.2232, 0.3202 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(22, 248, 255) }
```

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

```
.border{ border-color:rgb(22, 248, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 248, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 248, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 248, 255);  
box-shadow:4px 4px 4px 4px rgb(22, 248,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 74.5142, 0.2232, 0.3202 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 248, 255) }
```

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

```
.background{ background-color: rgb(22, 248,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor