

# Converting Colors

$Y_{xy}(103.4567, 0.2445, 0.3957)$

Have a look what the booklet for  
Yxy(103.4567, 0.2445, 0.3957)  
contains.

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# Color

**$\text{Yxy}(77.7217, 0.2334, 0.3549)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	1DFFEA
RGB	29, 255, 234
RGB Percent	11%, 100%, 92%
CMY	0.8873, 0.0000, 0.0823
CMYK	0.89, 0.00, 0.08, 0.00
HSL	174°, 100%, 56%
HSV	174°, 89%, 100%
XYZ	51.1137, 77.7217, 90.1607
YIQ	185.0320, -127.9550, -54.4430

# Conversions

## Conversions Part 2

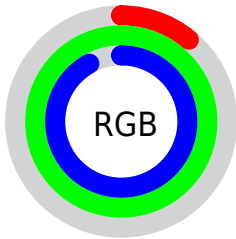
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	29, 148, 255
Decimal	1966058
CIE Lab	90.65, -53.11, -3.92
CIE LCh	91, 53.253, 184.226
Yxy	77.7217, 0.2334, 0.3549
Android (android.graphics.Color)	4280156138 (0xFF1DFFEA)
YUV	185.0320, 24.1412, -136.8401
Hunter-Lab	88.1599, -50.7885, 1.0764

# Details

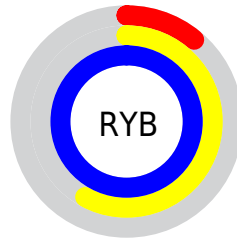
The Yxy color **77.7217, 0.2334, 0.3549** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **22.3541, 0.6063, 0.3208**, and the grayscale version is **48.4066, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0251, 0.2460, 0.3288**, and **43.1469, 0.2331, 0.3592** is the 20% darker color. If you saturate the color by 10%, you get **77.3473, 0.2329, 0.3580**, and if you desaturate by 10%, it is **78.3893, 0.2355, 0.3517**.

# Distribution



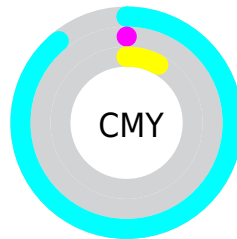
- Red (11%)
- Green (100%)
- Blue (92%)



- Red (11%)
- Yellow (58%)
- Blue (100%)



- Cyan (89%)
- Magenta (0%)
- Yellow (8%)
- Black (0%)




- Cyan (89%)
- Magenta (0%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.7217, 0.2334, 0.3549 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 77.7217, 0.2334, 0.3549 by changing the saturation by 10% instead.



 77.7217, 0.2334,  
0.3549

 77.7217, 0.2334,  
0.3549


487.2212, 0.2690,  
0.3437

 57.8454, 0.2256,  
0.3573


 130.1577, 0.2455,  
0.3511


 41.6844, 0.2161,  
0.3601


 163.4862, 0.2503,  
0.3496

 28.8542, 0.2043,  
0.3636


 202.0676, 0.2544,  
0.3483

 18.9706, 0.1893,  
0.3678

 246.2862, 0.2581,  
0.3472

 11.6490, 0.1699,  
0.3730

296.5265, 0.2613,  
0.3462

 6.5052, 0.1438,  
0.3795

353.1728, 0.2642,

 3.1546, 0.1077,

0.3452

0.3872

416.6096, 0.2667,  
0.3444

■ 1.2130, 0.0000,  
0.4180

■ 0.0723, 0.0000,  
0.1699

■ 77.7217, 0.2334,  
0.3549

■ 77.7217, 0.2334,  
0.3549

■ 77.3473, 0.2329,  
0.3580

■ 78.3893, 0.2355,  
0.3517

■ 77.3094, 0.2329,  
0.3584

■ 79.4313, 0.2395,  
0.3485

■ 80.8955, 0.2455,  
0.3453

■ 82.8246, 0.2533,  
0.3421

 85.2562, 0.2630,  
0.3391

 88.2239, 0.2743,  
0.3362

 91.7584, 0.2868,  
0.3335

 95.8881, 0.3003,  
0.3310

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.



77.7217, 0.2834, 0.4149



77.7217, 0.2334, 0.3549



77.7217, 0.2058, 0.2928

# Triad

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



77.7217, 0.2334, 0.3549



77.7217, 0.2721, 0.2369



77.7217, 0.4334, 0.3935

# Complementary

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



77.7217, 0.2334, 0.3549



22.3541, 0.6063, 0.3208

# 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.



77.7217, 0.4328, 0.3461



77.7217, 0.2334, 0.3549



77.7217, 0.3338, 0.2608

# Square

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



77.7217, 0.2334, 0.3549



77.7217, 0.2264, 0.2322



77.7217, 0.3950, 0.2994



77.7217, 0.3996, 0.4314



# Rectangle

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



77.7217, 0.2334, 0.3549



77.7217, 0.2016, 0.2617



77.7217, 0.3950, 0.2994



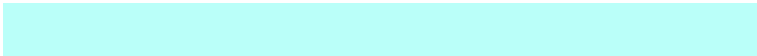
77.7217, 0.4375, 0.3781

# Sweetspot

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



77.7189, 0.2334, 0.3549



88.7934, 0.2763, 0.3357



72.3209, 0.3042, 0.5888



18.7681, 0.2723, 0.3367



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.



77.7189, 0.2334, 0.3549



77.3094, 0.2329, 0.3584



34.2066, 0.1927, 0.2065



20.4507, 0.2992, 0.3312



40.4078, 0.2328, 0.3579



3.9425, 0.2318, 0.3543



# Inverse Universe

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



22.3541, 0.6063, 0.3208



21.3245, 0.6320, 0.3255



34.5996, 0.5466, 0.3933



18.0144, 0.3280, 0.3268



11.1516, 0.6299, 0.3244

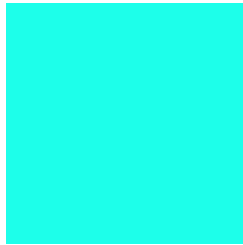


1.0946, 0.6098, 0.3133



# Previews

## White Background



This preview shows how the Yxy color 77.7217, 0.2334, 0.3549 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

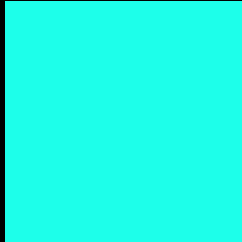
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.7217, 0.2334, 0.3549 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

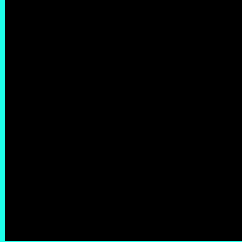
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

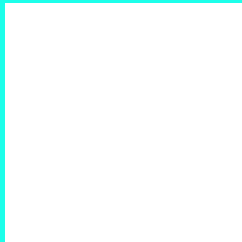
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.7217, 0.2334, 0.3549**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.7217, 0.2334, 0.3549.

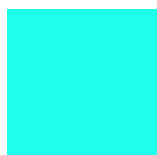


This preview shows how white text looks on a background with the Yxy color 77.7217, 0.2334, 0.3549.

# Color Blindness Simulation

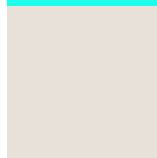
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



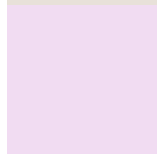
### Original Color

77.7217, 0.2334, 0.3549



### Protanopia

76.0160, 0.3229, 0.3375



### Deuteranopia

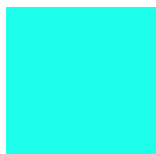
76.2980, 0.3131, 0.3066



## Tritanopia

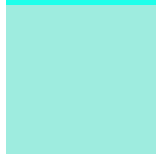
76.7099, 0.2540, 0.3130

# Trichromacy



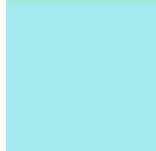
## Original Color

77.7217, 0.2334, 0.3549



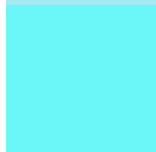
## Protanomaly

72.5877, 0.2724, 0.3443



## Deuteranomaly

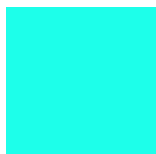
72.4023, 0.2669, 0.3219



## Tritanomaly

75.7527, 0.2413, 0.3276

# Monochromacy



## Original Color

77.7217, 0.2334, 0.3549



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

54.9942, 0.2628, 0.3382

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.7217, 0.2334, 0.3549 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(29, 255, 234)` looks like.

```
.text, #text, p{  
    color:rgb(29, 255, 234)  
}
```

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(29, 255, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(29, 255, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 77.7217, 0.2334, 0.3549 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(29, 255, 234) }
```

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

```
.border{ border-color:rgb(29, 255, 234) }
```

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

Here you see how a box with a 4 pixel rgb(29, 255, 234) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(29, 255, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(29, 255, 234);  
box-shadow:4px 4px 4px 4px rgb(29, 255,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.7217, 0.2334, 0.3549 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(29, 255, 234) }
```

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

```
.background{ background-color: rgb(29, 255,  
234) }
```

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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