

# Converting Colors

$Y_{xy}(69.9090, 0.2233, 0.3097)$

Have a look what the booklet for  
Yxy(69.9090, 0.2233, 0.3097)  
contains.

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# Color

**Yxy(69.6568, 0.2231, 0.3091)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33EFFF
RGB	51, 239, 255
RGB Percent	20%, 94%, 100%
CMY	0.8008, 0.0627, 0.0000
CMYK	0.80, 0.06, 0.00, 0.00
HSL	185°, 100%, 60%
HSV	185°, 80%, 100%
XYZ	50.2764, 69.6568, 105.4204
YIQ	184.6120, -117.1840, -34.8800

# Conversions

## Conversions Part 2

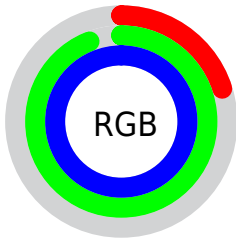
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 149, 255
Decimal	3403775
CIE Lab	86.83, -38.86, -20.57
CIE LCh	87, 43.963, 207.893
Yxy	69.6568, 0.2231, 0.3091
Android (android.graphics.Color)	4281593855 (0xFF33EFFF)
YUV	184.6120, 34.7013, -117.1777
Hunter-Lab	83.4606, -38.5284, -16.4676

# Details

The Yxy color **69.6568, 0.2231, 0.3091** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **25.4871, 0.5841, 0.3397**, and the grayscale version is **48.1109, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.7265, 0.2493, 0.3288**, and **37.5331, 0.2176, 0.3034** is the 20% darker color. If you saturate the color by 10%, you get **68.0069, 0.2197, 0.3064**, and if you desaturate by 10%, it is **71.6839, 0.2284, 0.3118**.

# Distribution



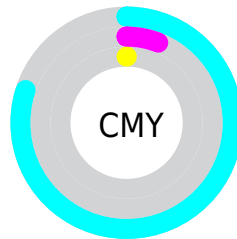
- Red (20%)
- Green (94%)
- Blue (100%)



- Red (20%)
- Yellow (58%)
- Blue (100%)



- Cyan (80%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (6%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.6568, 0.2231, 0.3091 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 69.6568, 0.2231, 0.3091 by changing the saturation by 10% instead.




 69.6568, 0.2231,  
0.3091


 69.6568, 0.2231,  
0.3091

459.3440, 0.2633,  
0.3198

 51.2468, 0.2143,  
0.3063


 118.7192, 0.2367,  
0.3131

 36.4051, 0.2037,  
0.3028


 150.1404, 0.2421,  
0.3146

 24.7472, 0.1905,  
0.2980


 186.6674, 0.2468,  
0.3158

 15.8888, 0.1740,  
0.2914

 228.6847, 0.2509,  
0.3168

 9.4455, 0.1528,  
0.2819

276.5766, 0.2546,  
0.3177

 5.0329, 0.1250,  
0.2671

330.7275, 0.2578,

 2.2666, 0.0880,

0.3185

0.2426

391.5219, 0.2607,  
0.3192

0.7559, 0.0000,  
0.2051

0.0000, 0.0000,  
0.0000

69.6568, 0.2231,  
0.3091

69.6568, 0.2231,  
0.3091

68.0069, 0.2197,  
0.3064


71.6839, 0.2284,  
0.3118


66.6552, 0.2177,  
0.3038


74.1370, 0.2357,  
0.3146

77.0608, 0.2450,  
0.3172

80.4934, 0.2559,  
0.3199

 84.4689, 0.2685,  
0.3224

 89.0186, 0.2823,  
0.3247

 94.1710, 0.2971,  
0.3270

99.9531, 0.3126,  
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.



69.6568, 0.2523, 0.3631



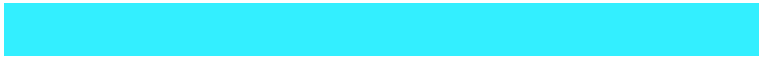
69.6568, 0.2231, 0.3091



69.6568, 0.2162, 0.2676

# Triad

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



69.6568, 0.2231, 0.3091



69.6568, 0.3195, 0.2639



69.6568, 0.3964, 0.4125

# Complementary

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



69.6568, 0.2231, 0.3091



25.4871, 0.5841, 0.3397

# 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.



69.6568, 0.4191, 0.3780



69.6568, 0.2231, 0.3091



69.6568, 0.3733, 0.2958

# Square

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



69.6568, 0.2231, 0.3091



69.6568, 0.2681, 0.2462



69.6568, 0.4111, 0.3361



69.6568, 0.3518, 0.4269

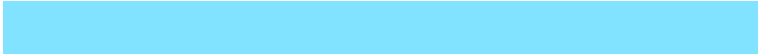


# Rectangle

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



69.6568, 0.2231, 0.3091



69.6568, 0.2242, 0.2512



69.6568, 0.4111, 0.3361



69.6568, 0.4070, 0.4025

# Sweetspot

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



69.6579, 0.2231, 0.3091



87.1633, 0.2768, 0.3238



72.5937, 0.2983, 0.5691



18.3128, 0.2719, 0.3230



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.



69.6579, 0.2231, 0.3091



67.1795, 0.2184, 0.3049



26.4678, 0.1870, 0.1726



20.2236, 0.2980, 0.3271



34.9309, 0.2179, 0.3043



3.4704, 0.2187, 0.3073



# Inverse Universe

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



29.8432, 0.3368, 0.1733



27.5277, 0.3411, 0.1663



48.9574, 0.4868, 0.4289



18.2744, 0.3150, 0.3074



14.2543, 0.3417, 0.1656

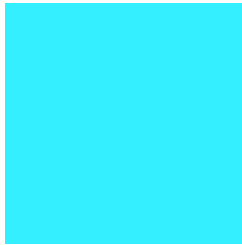


1.3949, 0.3390, 0.1641



# Previews

## White Background



This preview shows how the Yxy color 69.6568, 0.2231, 0.3091 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

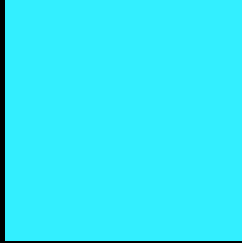
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.6568, 0.2231, 0.3091 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

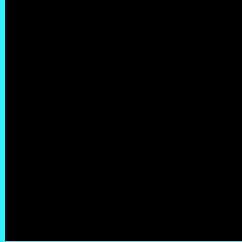
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.6568, 0.2231, 0.3091**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.6568, 0.2231, 0.3091.

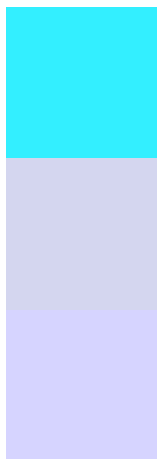


This preview shows how white text looks on a background with the Yxy color 69.6568, 0.2231, 0.3091.

# 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

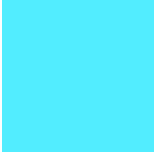
69.6568, 0.2231, 0.3091

### Protanopia

68.3222, 0.2949, 0.3017

### Deuteranopia

68.6031, 0.2863, 0.2833



## Tritanopia

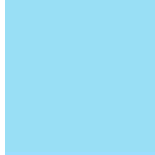
69.5822, 0.2286, 0.3069

# Trichromacy



## Original Color

69.6568, 0.2231, 0.3091



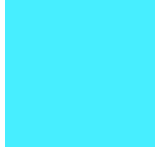
## Protanomaly

66.1402, 0.2565, 0.3029



## Deuteranomaly

66.4311, 0.2525, 0.2907



## Tritanomaly

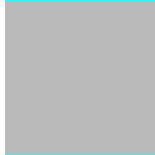
69.7087, 0.2264, 0.3080

# Monochromacy



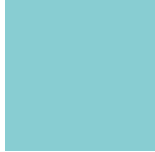
## Original Color

69.6568, 0.2231, 0.3091



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

53.5500, 0.2625, 0.3222

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.6568, 0.2231, 0.3091 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, 239, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 239, 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, 239, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 239, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 69.6568, 0.2231, 0.3091 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, 239, 255) }
```

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

```
.border{ border-color:rgb(51, 239, 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, 239, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 239, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 239, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 239,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.6568, 0.2231, 0.3091 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 239, 255) }
```

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

```
.background{ background-color: rgb(51, 239,  
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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