

# Converting Colors

$Y_{xy}(68.4951, 0.2270, 0.3244)$

Have a look what the booklet for  
Yxy(68.4951, 0.2270, 0.3244)  
contains.

<b>Yxy(68.7481, 0.2272, 0.3250)</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(68.7481, 0.2272, 0.3250)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FEFF2
RGB	47, 239, 242
RGB Percent	18%, 94%, 95%
CMY	0.8160, 0.0627, 0.0511
CMYK	0.81, 0.01, 0.00, 0.05
HSL	181°, 88%, 57%
HSV	181°, 81%, 95%
XYZ	48.0602, 68.7481, 94.7243
YIQ	181.9340, -115.3950, -39.7710

# Conversions

## Conversions Part 2

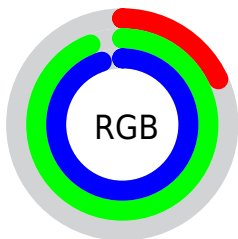
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	47, 144, 242
Decimal	3141618
CIE Lab	86.38, -42.95, -14.41
CIE LCh	86, 45.304, 198.546
Yxy	68.7481, 0.2272, 0.3250
Android (android.graphics.Color)	4281331698 (0xFF2FEFF2)
YUV	181.9340, 29.6125, -118.3371
Hunter-Lab	82.9145, -41.6353, -9.6948

# Details

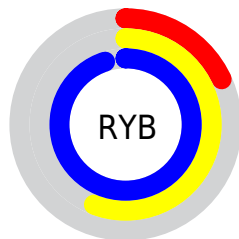
The Yxy color **68.7481, 0.2272, 0.3250** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **21.3512, 0.5941, 0.3316**, and the grayscale version is **46.6138, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4071, 0.2478, 0.3288**, and **37.0011, 0.2228, 0.3222** is the 20% darker color. If you saturate the color by 10%, you get **68.1114, 0.2246, 0.3245**, and if you desaturate by 10%, it is **69.7085, 0.2317, 0.3255**.

# Distribution



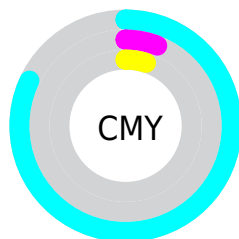
- Red (18%)
- Green (94%)
- Blue (95%)



- Red (18%)
- Yellow (56%)
- Blue (95%)



- Cyan (81%)
- Magenta (1%)
- Yellow (0%)
- Black (5%)




- Cyan (82%)
- Magenta (6%)
- Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.7481, 0.2272, 0.3250 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 68.7481, 0.2272, 0.3250 by changing the saturation by 10% instead.





 68.7481, 0.2272,  
0.3250

 68.7481, 0.2272,  
0.3250

456.1420, 0.2659,  
0.3282


 50.5066, 0.2186,  
0.3240


 117.4217, 0.2404,  
0.3264

 35.8161, 0.2082,  
0.3225


 148.6226, 0.2456,  
0.3268

 24.2922, 0.1953,  
0.3204


 184.9121, 0.2501,  
0.3272

 15.5505, 0.1789,  
0.3173

 226.6745, 0.2541,  
0.3274

 9.2066, 0.1576,  
0.3123

274.2944, 0.2576,  
0.3277

 4.8762, 0.1291,  
0.3036

328.1560, 0.2607,

 2.1748, 0.0892,

0.3279

388.6437, 0.2634,  
0.3280

0.2875

0.7062, 0.0000,  
0.2585

0.0000, 0.0000,  
0.0000

68.7481, 0.2272,  
0.3250

68.7481, 0.2272,  
0.3250

68.1114, 0.2246,  
0.3245

69.7085, 0.2317,  
0.3255

67.7302, 0.2234,  
0.3240

71.0310, 0.2381,  
0.3260

72.7566, 0.2464,  
0.3266

74.9192, 0.2566,  
0.3271

77.5488, 0.2685,  
0.3276

80.6729, 0.2819,  
0.3281

84.3169, 0.2964,  
0.3285

88.5043, 0.3118,  
0.3290

91.3685, 0.3212,  
0.3294

# Harmonies

## Analogous

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



68.7481, 0.2637, 0.3814



68.7481, 0.2272, 0.3250



68.7481, 0.2129, 0.2766

# Triad

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



68.7481, 0.2272, 0.3250



68.7481, 0.3020, 0.2544



68.7481, 0.4094, 0.4055

# Complementary

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



68.7481, 0.2272, 0.3250



21.3512, 0.5941, 0.3316

# 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.



68.7481, 0.4239, 0.3661



68.7481, 0.2272, 0.3250



68.7481, 0.3589, 0.2832

# Square

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



68.7481, 0.2272, 0.3250



68.7481, 0.2529, 0.2416



68.7481, 0.4052, 0.3227



68.7481, 0.3689, 0.4288



# Rectangle

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



68.7481, 0.2272, 0.3250



68.7481, 0.2163, 0.2553



68.7481, 0.4052, 0.3227



68.7481, 0.4177, 0.3934

# Sweetspot

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



68.7507, 0.2272, 0.3250



89.5895, 0.2771, 0.3279



64.2999, 0.3010, 0.5790



18.9079, 0.2724, 0.3277



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.



68.7507, 0.2272, 0.3250



76.4089, 0.2237, 0.3242



27.0970, 0.1916, 0.1907



17.8852, 0.2981, 0.3286



36.4117, 0.2234, 0.3241



3.0423, 0.2236, 0.3248



# Inverse Universe

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



27.1337, 0.3236, 0.1650



28.4058, 0.3247, 0.1569



39.1631, 0.5013, 0.4163



16.0270, 0.3140, 0.3061



13.4691, 0.3247, 0.1563

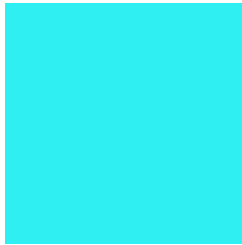


1.1218, 0.3242, 0.1560



# Previews

## White Background



This preview shows how the Yxy color 68.7481, 0.2272, 0.3250 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

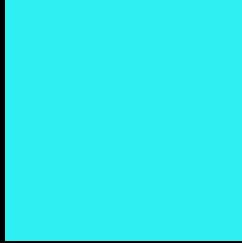
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.7481, 0.2272, 0.3250 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

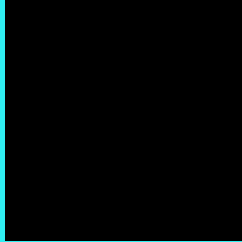
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.7481, 0.2272, 0.3250**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.7481, 0.2272, 0.3250.

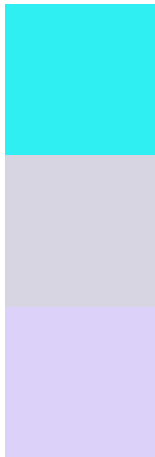


This preview shows how white text looks on a background with the Yxy color 68.7481, 0.2272, 0.3250.

# 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

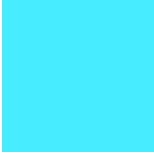
68.7481, 0.2272, 0.3250

### Protanopia

67.5266, 0.3054, 0.3147

### Deuteranopia

67.5006, 0.2933, 0.2865



## **Tritanopia**

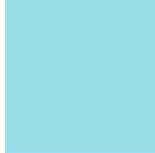
68.5505, 0.2257, 0.3055

# Trichromacy



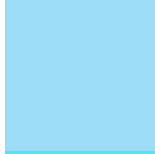
## Original Color

68.7481, 0.2272, 0.3250



## Protanomaly

64.9388, 0.2635, 0.3168



## Deuteranomaly

64.9081, 0.2571, 0.2983



## Tritanomaly

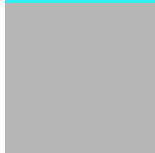
68.4946, 0.2261, 0.3127

# Monochromacy



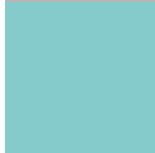
## Original Color

68.7481, 0.2272, 0.3250



## Achromatopsia

46.7784, 0.3127, 0.3290



## Achromatomaly

52.0581, 0.2638, 0.3275

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.7481, 0.2272, 0.3250 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(47, 239, 242)` looks like.

```
.text, #text, p{  
    color:rgb(47, 239, 242)  
}
```

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(47, 239, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 239, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 68.7481, 0.2272, 0.3250 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(47, 239, 242) }
```

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

```
.border{ border-color:rgb(47, 239, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 239, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 239, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 239, 242);  
box-shadow:4px 4px 4px 4px rgb(47, 239,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.7481, 0.2272, 0.3250 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 239, 242) }
```

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

```
.background{ background-color: rgb(47, 239,  
242) }
```

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