

# Converting Colors

$Y_{xy}(69.6413, 0.2410, 0.3520)$

Have a look what the booklet for  
Yxy(69.6413, 0.2410, 0.3520)  
contains.

<b>Yxy(69.7748, 0.2408, 0.3519)</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(69.7748, 0.2408, 0.3519)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4CF1DF
RGB	76, 241, 223
RGB Percent	30%, 95%, 87%
CMY	0.7025, 0.0548, 0.1255
CMYK	0.69, 0.00, 0.07, 0.05
HSL	173°, 86%, 62%
HSV	173°, 69%, 95%
XYZ	47.7459, 69.7748, 80.7595
YIQ	189.6130, -92.5620, -40.5780

# Conversions

## Conversions Part 2

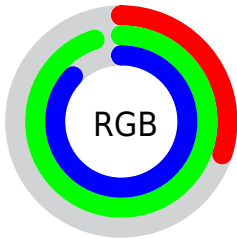
Format	Color
<a href="#">RYB</a>	<a href="#">76, 163, 241</a>
Decimal	<a href="#">5042655</a>
CIELab	<a href="#">86.89, -46.01, -3.65</a>
CIELCh	<a href="#">87, 46.152, 184.536</a>
Yxy	<a href="#">69.7748, 0.2408, 0.3519</a>
Android (android.graphics.Color)	<a href="#">4283232735 (0xFF4CF1DF)</a>
YUV	<a href="#">189.6130, 16.4598, -99.6386</a>
Hunter-Lab	<a href="#">83.5313, -44.1505, 1.1493</a>

# Details

The Yxy color **69.7748, 0.2408, 0.3519** 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 **24.6593, 0.5193, 0.3133**, and the grayscale version is **51.1815, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.7597, 0.2541, 0.3288**, and **37.1081, 0.2322, 0.3560** is the 20% darker color. If you saturate the color by 10%, you get **68.8296, 0.2369, 0.3557**, and if you desaturate by 10%, it is **71.0968, 0.2467, 0.3481**.

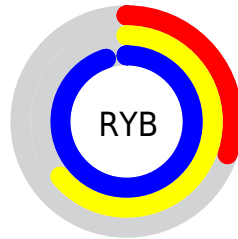
# Distribution



Red (30%)

Green (95%)

Blue (87%)



Red (30%)

Yellow (64%)

Blue (95%)

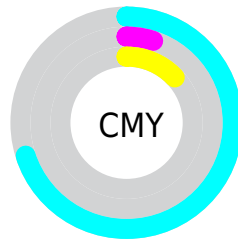


Cyan (69%)

Magenta (0%)

Yellow (7%)

Black (5%)



Cyan (70%)

Magenta (5%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.7748, 0.2408, 0.3519 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 69.7748, 0.2408, 0.3519 by changing the saturation by 10% instead.




 69.7748, 0.2408,  
0.3519

 69.7748, 0.2408,  
0.3519


459.7589, 0.2738,  
0.3417


 51.3430, 0.2334,  
0.3541


 118.8875, 0.2522,  
0.3485

 36.4816, 0.2242,  
0.3568


 150.3372, 0.2566,  
0.3471

 24.8064, 0.2128,  
0.3600


 186.8950, 0.2605,  
0.3459

 15.9329, 0.1981,  
0.3641

 228.9453, 0.2638,  
0.3449

 9.4767, 0.1785,  
0.3692

276.8724, 0.2668,  
0.3439

 5.0534, 0.1514,  
0.3758

331.0608, 0.2694,

 2.2786, 0.1104,

0.3431

0.3846

391.8948, 0.2717,  
0.3424

0.7624, 0.0000,  
0.4115

0.0000, 0.0000,  
0.0000

69.7748, 0.2408,  
0.3519

69.7748, 0.2408,  
0.3519

68.8296, 0.2369,  
0.3557

71.0968, 0.2467,  
0.3481

68.2094, 0.2348,  
0.3595


72.8247, 0.2545,  
0.3444


67.8539, 0.2344,  
0.3633


74.9936, 0.2641,  
0.3408


67.8110, 0.2344,  
0.3638

77.6328, 0.2752,  
0.3374

 80.7690, 0.2875,  
0.3342

 84.4270, 0.3008,  
0.3313

 88.6298, 0.3148,  
0.3286

 90.7127, 0.3201,  
0.3261

 90.8736, 0.3184,  
0.3236

# Harmonies

## Analogous

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



69.7748, 0.2862, 0.4049



69.7748, 0.2408, 0.3519



69.7748, 0.2154, 0.2966

# Triad

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



69.7748, 0.2408, 0.3519



69.7748, 0.2768, 0.2452



69.7748, 0.4215, 0.3889

# Complementary

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



69.7748, 0.2408, 0.3519



24.6593, 0.5193, 0.3133

# 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.



69.7748, 0.4208, 0.3459



69.7748, 0.2408, 0.3519



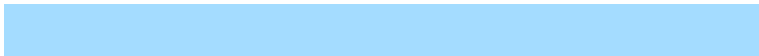
69.7748, 0.3326, 0.2673

# Square

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



69.7748, 0.2408, 0.3519



69.7748, 0.2348, 0.2410



69.7748, 0.3872, 0.3029



69.7748, 0.3913, 0.4220



# Rectangle

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



69.7748, 0.2408, 0.3519



69.7748, 0.2116, 0.2683



69.7748, 0.3872, 0.3029



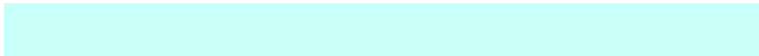
69.7748, 0.4250, 0.3751

# Sweetspot

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



69.7775, 0.2408, 0.3519



90.8494, 0.2843, 0.3350



65.8789, 0.3100, 0.5448



19.2305, 0.2808, 0.3359



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.



69.7775, 0.2408, 0.3519



77.9354, 0.2359, 0.3571



39.6066, 0.2125, 0.2424



17.8975, 0.2995, 0.3316



36.7798, 0.2342, 0.3632



3.0682, 0.2328, 0.3582



# Inverse Universe

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



24.6593, 0.5193, 0.3133



23.6323, 0.5788, 0.3160



37.7379, 0.4869, 0.3923



15.7869, 0.3276, 0.3265



10.1916, 0.6270, 0.3228

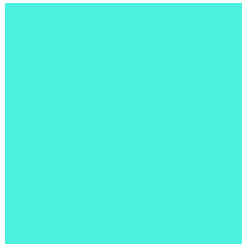


0.8571, 0.6007, 0.3083



# Previews

## White Background



This preview shows how the Yxy color 69.7748, 0.2408, 0.3519 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

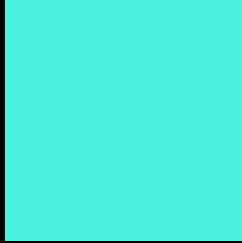
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.7748, 0.2408, 0.3519 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

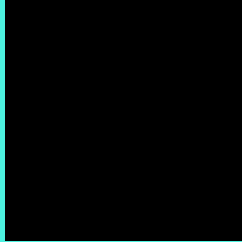
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.7748, 0.2408, 0.3519**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.7748, 0.2408, 0.3519.

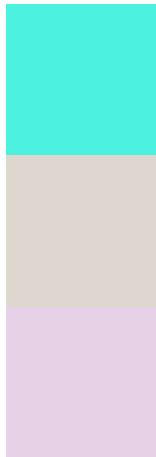


This preview shows how white text looks on a background with the Yxy color 69.7748, 0.2408, 0.3519.

# 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

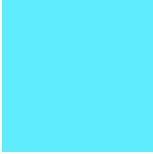
69.7748, 0.2408, 0.3519

### Protanopia

68.5271, 0.3219, 0.3368

### Deuteranopia

68.1371, 0.3138, 0.3067



## **Tritanopia**

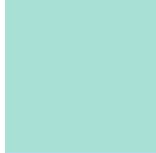
69.6438, 0.2318, 0.3059

# Trichromacy



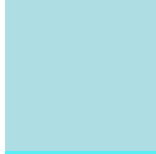
## Original Color

69.7748, 0.2408, 0.3519



## Protanomaly

66.4402, 0.2823, 0.3422



## Deuteranomaly

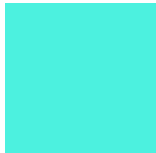
66.2576, 0.2777, 0.3218



## Tritanomaly

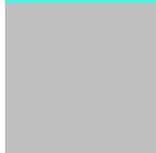
69.6948, 0.2350, 0.3226

# Monochromacy



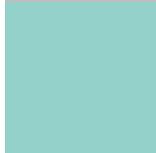
## Original Color

69.7748, 0.2408, 0.3519



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

56.1611, 0.2749, 0.3380

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.7748, 0.2408, 0.3519 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(76, 241, 223)` looks like.

```
.text, #text, p{  
    color:rgb(76, 241, 223)  
}
```

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(76, 241, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 241, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 69.7748, 0.2408, 0.3519 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(76, 241, 223) }
```

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

```
.border{ border-color:rgb(76, 241, 223) }
```

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

Here you see how a box with a 4 pixel rgb(76, 241, 223) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 241, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 241, 223);  
box-shadow:4px 4px 4px 4px rgb(76, 241,  
223) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.7748, 0.2408, 0.3519 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 241, 223) }
```

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

```
.background{ background-color: rgb(76, 241,  
223) }
```

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