

# Converting Colors

$Y_{xy}(69.6582, 0.2355, 0.3530)$

Have a look what the booklet for  
Yxy(69.6582, 0.2355, 0.3530)  
contains.

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# Color

**Yxy(69.5390, 0.2353, 0.3521)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 31F2E0                        |
| RGB         | 49, 242, 224                  |
| RGB Percent | 19%, 95%, 88%                 |
| CMY         | 0.8079, 0.0510, 0.1216        |
| CMYK        | 0.80, 0.00, 0.07, 0.05        |
| HSL         | 174°, 88%, 57%                |
| HSV         | 174°, 80%, 95%                |
| XYZ         | 46.4712, 69.5390, 81.4876     |
| YIQ         | 182.2410, -109.2500, -46.5140 |

# Conversions

## Conversions Part 2

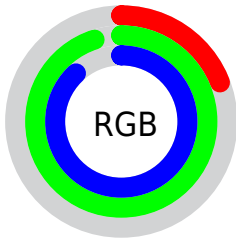
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>R<sub>YB</sub></b>               | 49, 150, 242                    |
| Decimal                             | 3273440                         |
| CIE <sub>Lab</sub>                  | 86.77, -49.08, -4.39            |
| CIE <sub>LCh</sub>                  | 87, 49.272, 185.114             |
| Yxy                                 | 69.5390, 0.2353,<br>0.3521      |
| Android<br>(android.graphics.Color) | 4281463520<br>(0xFF31F2E0)      |
| YUV                                 | 182.2410, 20.5872,<br>-116.8524 |
| Hunter-Lab                          | 83.3900, -46.4589,<br>0.4357    |

# Details

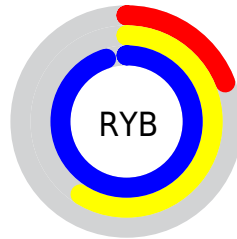
The Yxy color **69.5390, 0.2353, 0.3521** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **21.4789, 0.5727, 0.3176**, and the grayscale version is **46.8461, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4071, 0.2478, 0.3288**, and **37.5625, 0.2322, 0.3558** is the 20% darker color. If you saturate the color by 10%, you get **68.9712, 0.2334, 0.3553**, and if you desaturate by 10%, it is **70.4361, 0.2391, 0.3489**.

# Distribution



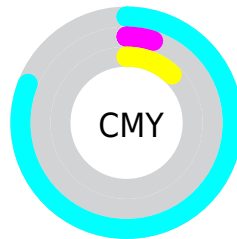
- Red (19%)
- Green (95%)
- Blue (88%)



- Red (19%)
- Yellow (59%)
- Blue (95%)



- Cyan (80%)
- Magenta (0%)
- Yellow (7%)
- Black (5%)




- Cyan (81%)
- Magenta (5%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.5390, 0.2353, 0.3521 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 69.5390, 0.2353, 0.3521 by changing the saturation by 10% instead.





 69.5390, 0.2353,  
0.3521


 69.5390, 0.2353,  
0.3521


458.9297, 0.2708,  
0.3420

 51.1508, 0.2273,  
0.3543


 118.5511, 0.2475,  
0.3487


 36.3286, 0.2176,  
0.3569

 149.9438, 0.2523,  
0.3473

 24.6881, 0.2054,  
0.3600


 186.4401, 0.2564,  
0.3462

 15.8448, 0.1897,  
0.3639

 228.4244, 0.2600,  
0.3451

 9.4144, 0.1690,  
0.3686

276.2811, 0.2632,  
0.3442

 5.0125, 0.1406,  
0.3744

330.3947, 0.2660,

 2.2546, 0.0961,

0.3434

0.3825

391.1494, 0.2685,  
0.3426

0.7495, 0.0000,  
0.3983

0.0000, 0.0000,  
0.0000

69.5390, 0.2353,  
0.3521

69.5390, 0.2353,  
0.3521

68.9712, 0.2334,  
0.3553

70.4361, 0.2391,  
0.3489


68.6510, 0.2329,  
0.3585

71.7001, 0.2449,  
0.3457


68.6443, 0.2329,  
0.3586


73.3715, 0.2526,  
0.3425


75.4839, 0.2621,  
0.3394

 78.0670, 0.2732,  
0.3365

 81.1482, 0.2855,  
0.3338

 84.7526, 0.2989,  
0.3313

 88.9039, 0.3131,  
0.3289

 91.3186, 0.3198,  
0.3268

# Harmonies

## Analogous

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



69.5390, 0.2831, 0.4098



69.5390, 0.2353, 0.3521



69.5390, 0.2092, 0.2930

# Triad

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



69.5390, 0.2353, 0.3521



69.5390, 0.2753, 0.2405



69.5390, 0.4283, 0.3929

# Complementary

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



69.5390, 0.2353, 0.3521



21.4789, 0.5727, 0.3176

# 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.



69.5390, 0.4286, 0.3473



69.5390, 0.2353, 0.3521



69.5390, 0.3350, 0.2642

# Square

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



69.5390, 0.2353, 0.3521



69.5390, 0.2306, 0.2355



69.5390, 0.3933, 0.3019



69.5390, 0.3952, 0.4284



# Rectangle

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



69.5390, 0.2353, 0.3521



69.5390, 0.2055, 0.2634



69.5390, 0.3933, 0.3019



69.5390, 0.4325, 0.3782

# Sweetspot

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



69.5416, 0.2353, 0.3521



89.8205, 0.2801, 0.3350



64.9686, 0.3064, 0.5734



18.9648, 0.2757, 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.



69.5416, 0.2353, 0.3521



77.4208, 0.2330, 0.3574



33.9011, 0.2000, 0.2208



17.9020, 0.2993, 0.3312



36.8853, 0.2328, 0.3580



3.0759, 0.2316, 0.3538



# Inverse Universe

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



21.4789, 0.5727, 0.3176



21.5915, 0.6247, 0.3240



34.0711, 0.5202, 0.3968



15.7828, 0.3279, 0.3268



10.1819, 0.6294, 0.3241

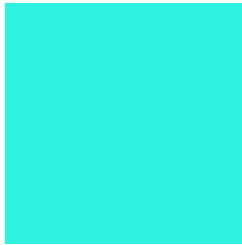


0.8551, 0.6060, 0.3112



# Previews

## White Background



This preview shows how the Yxy color 69.5390, 0.2353, 0.3521 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

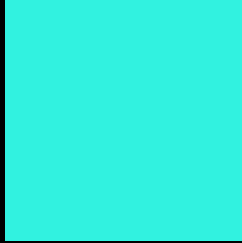
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.5390, 0.2353, 0.3521 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

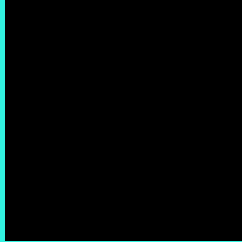
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.5390, 0.2353, 0.3521**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.5390, 0.2353, 0.3521.

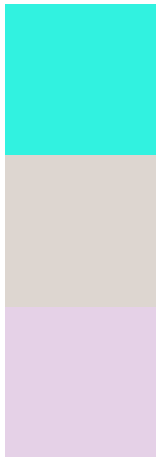


This preview shows how white text looks on a background with the Yxy color 69.5390, 0.2353, 0.3521.

# 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

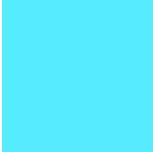
69.5390, 0.2353, 0.3521

### Protanopia

68.0194, 0.3220, 0.3357

### Deuteranopia

68.0285, 0.3123, 0.3056



## **Tritanopia**

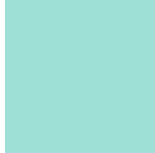
69.1422, 0.2290, 0.3057

# Trichromacy



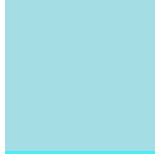
## Original Color

69.5390, 0.2353, 0.3521



## Protanomaly

65.4354, 0.2758, 0.3412



## Deuteranomaly

65.2069, 0.2712, 0.3205



## Tritanomaly

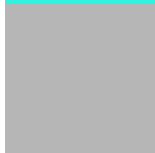
69.0584, 0.2307, 0.3213

# Monochromacy



## Original Color

69.5390, 0.2353, 0.3521



## Achromatopsia

46.7784, 0.3127, 0.3290



## Achromatomaly

52.2853, 0.2686, 0.3384

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.5390, 0.2353, 0.3521 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(49, 242, 224)` looks like.

```
.text, #text, p{  
    color:rgb(49, 242, 224)  
}
```

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(49, 242, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 242, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 69.5390, 0.2353, 0.3521 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(49, 242, 224) }
```

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

```
.border{ border-color:rgb(49, 242, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 242, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 242, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 242, 224);  
box-shadow:4px 4px 4px 4px rgb(49, 242,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.5390, 0.2353, 0.3521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 242, 224) }
```

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

```
.background{ background-color: rgb(49, 242,  
224) }
```

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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