

# Converting Colors

$Y_{xy}(75.3773, 0.2366, 0.3523)$

Have a look what the booklet for  
Yxy(75.3773, 0.2366, 0.3523)  
contains.

<b>Yxy(75.1272, 0.2364, 0.3513)</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(75.1272, 0.2364, 0.3513)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3BFAE8
RGB	59, 250, 232
RGB Percent	23%, 98%, 91%
CMY	0.7684, 0.0196, 0.0902
CMYK	0.76, 0.00, 0.07, 0.02
HSL	174°, 95%, 61%
HSV	174°, 76%, 98%
XYZ	50.5553, 75.1272, 88.1723
YIQ	190.8390, -108.0580, -46.0900

# Conversions

## Conversions Part 2

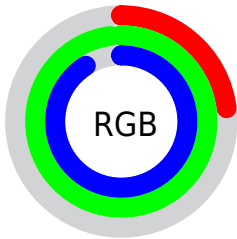
Format	Color
R <sub>Y</sub> B	59, 159, 250
Decimal	3930856
CIE Lab	89.45, -49.42, -4.60
CIE LCh	89, 49.635, 185.321
Yxy	75.1272, 0.2364, 0.3513
Android (android.graphics.Color)	4282120936 (0xFF3BFAE8)
YUV	190.8390, 20.2924, -115.6228
Hunter-Lab	86.6759, -47.5696, 0.3596

# Details

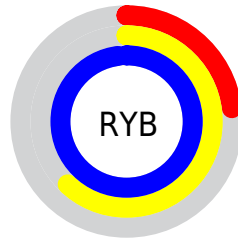
The Yxy color **75.1272, 0.2364, 0.3513** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **23.9947, 0.5588, 0.3167**, and the grayscale version is **51.9391, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.9742, 0.2505, 0.3288**, and **41.2745, 0.2323, 0.3564** is the 20% darker color. If you saturate the color by 10%, you get **74.4065, 0.2339, 0.3546**, and if you desaturate by 10%, it is **76.2208, 0.2409, 0.3480**.

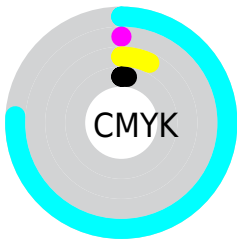
# Distribution



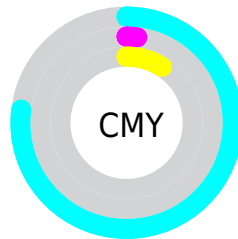
- Red (23%)
- Green (98%)
- Blue (91%)



- Red (23%)
- Yellow (62%)
- Blue (98%)



- Cyan (76%)
- Magenta (0%)
- Yellow (7%)
- Black (2%)




- Cyan (77%)
- Magenta (2%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.1272, 0.2364, 0.3513 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 75.1272, 0.2364, 0.3513 by changing the saturation by 10% instead.



 75.1272, 0.2364,  
0.3513


 75.1272, 0.2364,  
0.3513


478.3547, 0.2709,  
0.3417

 55.7171, 0.2288,  
0.3533


 126.4924, 0.2482,  
0.3481

 39.9762, 0.2195,  
0.3557


 159.2163, 0.2528,  
0.3468

 27.5200, 0.2079,  
0.3587


 197.1469, 0.2568,  
0.3457

 17.9641, 0.1932,  
0.3622

 240.6687, 0.2603,  
0.3447

 10.9242, 0.1739,  
0.3665

290.1659, 0.2634,  
0.3438

 6.0159, 0.1477,  
0.3718

346.0231, 0.2662,

 2.8548, 0.1112,

0.3430

0.3776

408.6245, 0.2687,  
0.3423

■ 1.0564, 0.0000,  
0.4051

■ 0.0000, 0.0000,  
0.0000

■ 75.1272, 0.2364,  
0.3513

■ 75.1272, 0.2364,  
0.3513

■ 74.4065, 0.2339,  
0.3546

■ 76.2208, 0.2409,  
0.3480

■ 73.9926, 0.2331,  
0.3578

■ 77.7249, 0.2473,  
0.3448


■ 73.8870, 0.2330,  
0.3589


■ 79.6816, 0.2556,  
0.3416

■ 82.1257, 0.2656,  
0.3386

 85.0885, 0.2772,  
0.3357

 88.5987, 0.2900,  
0.3330

 92.6830, 0.3036,  
0.3305

 96.5889, 0.3154,  
0.3282

 96.7385, 0.3140,  
0.3259

# Harmonies

## Analogous

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



75.1272, 0.2833, 0.4078



75.1272, 0.2364, 0.3513



75.1272, 0.2108, 0.2934

# Triad

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



75.1272, 0.2364, 0.3513



75.1272, 0.2764, 0.2420



75.1272, 0.4262, 0.3922

# Complementary

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



75.1272, 0.2364, 0.3513



23.9947, 0.5588, 0.3167

# 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.



75.1272, 0.4266, 0.3474



75.1272, 0.2364, 0.3513



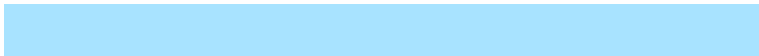
75.1272, 0.3351, 0.2654

# Square

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



75.1272, 0.2364, 0.3513



75.1272, 0.2322, 0.2370



75.1272, 0.3921, 0.3027



75.1272, 0.3936, 0.4269



# Rectangle

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



75.1272, 0.2364, 0.3513



75.1272, 0.2073, 0.2643



75.1272, 0.3921, 0.3027



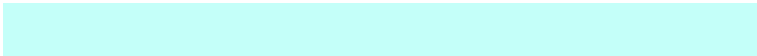
75.1272, 0.4303, 0.3778

# Sweetspot

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



75.1301, 0.2364, 0.3513



90.1715, 0.2813, 0.3347



70.3152, 0.3071, 0.5664



19.0318, 0.2769, 0.3357



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.



75.1301, 0.2364, 0.3513



77.5488, 0.2332, 0.3564



37.9604, 0.2031, 0.2259



19.5787, 0.2993, 0.3312



39.2027, 0.2329, 0.3584



3.6388, 0.2318, 0.3545



# Inverse Universe

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



23.9947, 0.5588, 0.3167



21.9455, 0.6153, 0.3221



38.0899, 0.5101, 0.3970



17.2518, 0.3279, 0.3268



10.8235, 0.6296, 0.3242

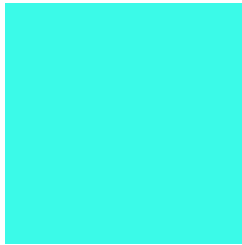


1.0111, 0.6082, 0.3124



# Previews

## White Background



This preview shows how the Yxy color 75.1272, 0.2364, 0.3513 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

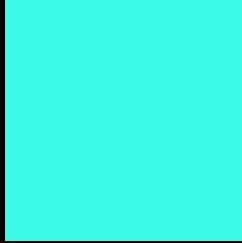
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.1272, 0.2364, 0.3513 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

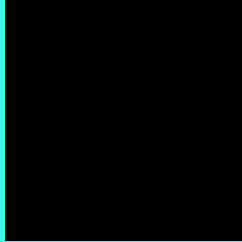
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

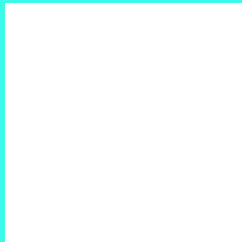
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 75.1272, 0.2364, 0.3513**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.1272, 0.2364, 0.3513.

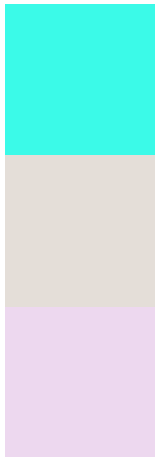


This preview shows how white text looks on a background with the Yxy color 75.1272, 0.2364, 0.3513.

# 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

75.1272, 0.2364, 0.3513

### Protanopia

73.6944, 0.3210, 0.3355

### Deuteranopia

73.3483, 0.3124, 0.3053



## Tritanopia

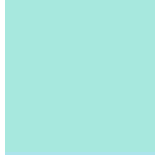
74.7744, 0.2473, 0.3115

# Trichromacy



## Original Color

75.1272, 0.2364, 0.3513



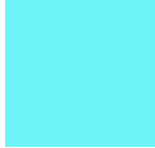
## Protanomaly

71.2026, 0.2774, 0.3407



## Deuteranomaly

70.3136, 0.2723, 0.3196



## Tritanomaly

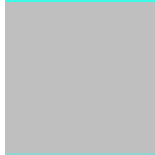
74.6049, 0.2412, 0.3252

# Monochromacy



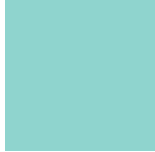
## Original Color

75.1272, 0.2364, 0.3513



## Achromatopsia

52.0996, 0.3127, 0.3290



## Achromatomaly

57.3828, 0.2700, 0.3367

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.1272, 0.2364, 0.3513 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(59, 250, 232)` looks like.

```
.text, #text, p{  
    color:rgb(59, 250, 232)  
}
```

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(59, 250, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 250, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 75.1272, 0.2364, 0.3513 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(59, 250, 232) }
```

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

```
.border{ border-color:rgb(59, 250, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 250, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 250, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 250, 232);  
box-shadow:4px 4px 4px 4px rgb(59, 250,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.1272, 0.2364, 0.3513 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 250, 232) }
```

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

```
.background{ background-color: rgb(59, 250,  
232) }
```

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