

# Converting Colors

$Y_{xy}(65.2576, 0.2201, 0.3569)$

Have a look what the booklet for  
Yxy(65.2576, 0.2201, 0.3569)  
contains.

<b>Yxy(66.8475, 0.2320, 0.3553)</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(66.8475, 0.2320, 0.3553)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EFDB
RGB	0, 239, 219
RGB Percent	0%, 94%, 86%
CMY	1.0000, 0.0627, 0.1410
CMYK	1.00, 0.00, 0.08, 0.06
HSL	175°, 100%, 47%
HSV	175°, 100%, 94%
XYZ	43.6494, 66.8475, 77.6470
YIQ	165.2590, -136.0240, -56.8880

# Conversions

## Conversions Part 2

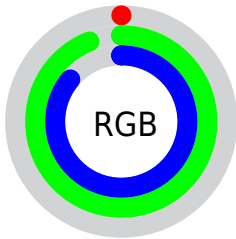
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 125, 239
Decimal	61403
CIELab	85.43, -51.43, -3.81
CIELCh	85, 51.566, 184.237
Yxy	66.8475, 0.2320, 0.3553
Android (android.graphics.Color)	4278251483 (0xFF00EFDB)
YUV	165.2590, 26.4943, -144.9321
Hunter-Lab	81.7603, -47.7848, 0.9251

# Details

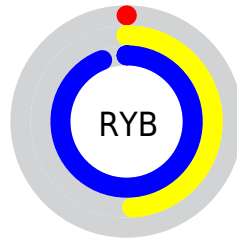
The Yxy color **66.8475, 0.2320, 0.3553** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **18.4027, 0.6328, 0.3260**, and the grayscale version is **37.6816, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **36.1362, 0.2333, 0.3598** is the 20% darker color. If you saturate the color by 10%, you get **66.8548, 0.2320, 0.3553**, and if you desaturate by 10%, it is **67.1537, 0.2325, 0.3525**.

# Distribution



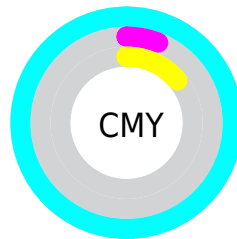
- Red (0%)
- Green (94%)
- Blue (86%)



- Red (0%)
- Yellow (49%)
- Blue (94%)



- Cyan (100%)
- Magenta (0%)
- Yellow (8%)
- Black (6%)



- Cyan (100%)
- Magenta (6%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.8475, 0.2320, 0.3553 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 66.8475, 0.2320, 0.3553 by changing the saturation by 10% instead.





 66.8475, 0.2320,  
0.3553

 66.8475, 0.2320,  
0.3553


449.4018, 0.2692,  
0.3436

 48.9607, 0.2236,  
0.3578

 114.7019, 0.2449,  
0.3513


 34.5883, 0.2133,  
0.3609


 145.4382, 0.2499,  
0.3498


 23.3459, 0.2003,  
0.3647


 181.2266, 0.2542,  
0.3484

 14.8491, 0.1836,  
0.3693

 222.4513, 0.2580,  
0.3472

 8.7136, 0.1615,  
0.3751

 269.4968, 0.2613,  
0.3461

 4.5548, 0.1312,  
0.3823

322.7474, 0.2642,

 1.9885, 0.0734,

0.3452

0.3968

382.5876, 0.2669,  
0.3443

■ 0.6008, 0.0000,  
0.3949

■ 0.0000, 0.0000,  
0.0000

■ 66.8475, 0.2320,  
0.3553

■ 66.8475, 0.2320,  
0.3553

■ 66.8548, 0.2320,  
0.3553

■ 67.1537, 0.2325,  
0.3525

■ 67.6914, 0.2345,  
0.3496

■ 68.5425, 0.2384,  
0.3468

■ 69.7512, 0.2442,  
0.3439

■ 71.3545, 0.2519,  
0.3411

■ 73.3848, 0.2614,  
0.3384

■ 75.8714, 0.2725,  
0.3358

■ 78.8405, 0.2850,  
0.3333

■ 82.3168, 0.2985,  
0.3311

# Harmonies

## Analogous

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



66.8475, 0.2827, 0.4166



66.8475, 0.2320, 0.3553



66.8475, 0.2040, 0.2920

# Triad

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



66.8475, 0.2320, 0.3553



66.8475, 0.2713, 0.2354



66.8475, 0.4355, 0.3944

# Complementary

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



66.8475, 0.2320, 0.3553



18.4027, 0.6328, 0.3260

# 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.



66.8475, 0.4350, 0.3462



66.8475, 0.2320, 0.3553



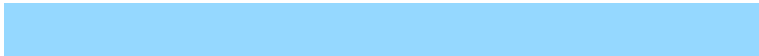
66.8475, 0.3342, 0.2597

# Square

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



66.8475, 0.2320, 0.3553



66.8475, 0.2250, 0.2307



66.8475, 0.3965, 0.2989



66.8475, 0.4010, 0.4331



# Rectangle

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



66.8475, 0.2320, 0.3553



66.8475, 0.1998, 0.2605



66.8475, 0.3965, 0.2989



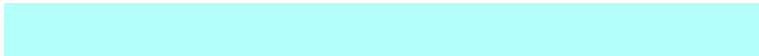
66.8475, 0.4397, 0.3788

# Sweetspot

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



66.8548, 0.2320, 0.3553



87.8594, 0.2724, 0.3358



61.9312, 0.3019, 0.5985



18.5310, 0.2675, 0.3369



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.



66.8548, 0.2320, 0.3553



77.4430, 0.2321, 0.3554



25.9994, 0.1861, 0.1900



17.9049, 0.2992, 0.3310



36.9519, 0.2319, 0.3548



3.0807, 0.2309, 0.3511



# Inverse Universe

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



18.4027, 0.6328, 0.3260



21.3153, 0.6332, 0.3262



26.6459, 0.5724, 0.3837



15.7803, 0.3280, 0.3271



10.1765, 0.6308, 0.3249

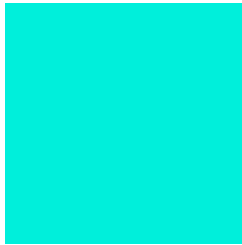


0.8539, 0.6093, 0.3130



# Previews

## White Background



This preview shows how the Yxy color 66.8475, 0.2320, 0.3553 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

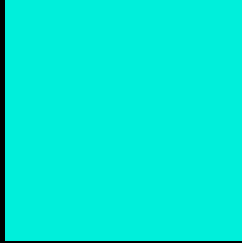
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.8475, 0.2320, 0.3553 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

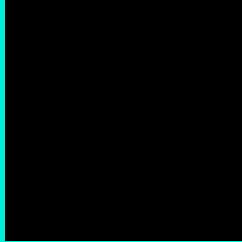
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

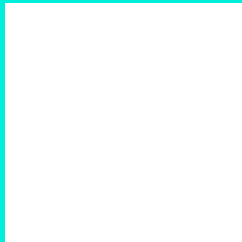
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 66.8475, 0.2320, 0.3553**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.8475, 0.2320, 0.3553.

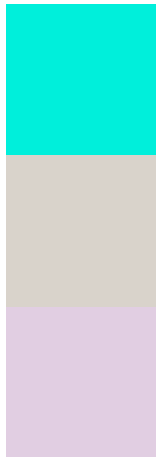


This preview shows how white text looks on a background with the Yxy color 66.8475, 0.2320, 0.3553.

# 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

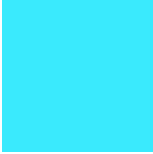
66.8475, 0.2320, 0.3553

### Protanopia

65.6520, 0.3228, 0.3380

### Deuteranopia

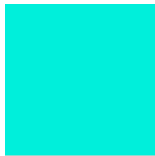
65.6412, 0.3130, 0.3073



## Tritanopia

66.8370, 0.2233, 0.3052

# Trichromacy



## Original Color

66.8475, 0.2320, 0.3553



## Protanomaly

61.7196, 0.2669, 0.3443



## Deuteranomaly

61.3102, 0.2616, 0.3226



## Tritanomaly

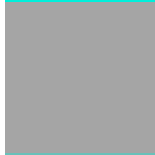
66.7351, 0.2253, 0.3224

# Monochromacy



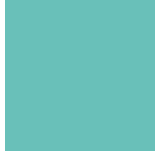
## Original Color

66.8475, 0.2320, 0.3553



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

44.2053, 0.2566, 0.3392

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.8475, 0.2320, 0.3553 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(0, 239, 219)` looks like.

```
.text, #text, p{  
    color:rgb(0, 239, 219)  
}
```

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(0, 239, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 239, 219) }
```

## Border

The CSS property to change the border of an element to Yxy 66.8475, 0.2320, 0.3553 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(0, 239, 219) }
```

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

```
.border{ border-color:rgb(0, 239, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 239, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 239, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 239, 219);  
box-shadow:4px 4px 4px 4px rgb(0, 239,  
219) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.8475, 0.2320, 0.3553 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 239, 219) }
```

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

```
.background{ background-color: rgb(0, 239,  
219) }
```

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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