

# Converting Colors

$Y_{xy}(62.1012, 0.1939, 0.3372)$

Have a look what the booklet for  
Yxy(62.1012, 0.1939, 0.3372)  
contains.

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# Color

**Yxy(66.9753, 0.2268, 0.3365)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EEE8
RGB	0, 238, 232
RGB Percent	0%, 93%, 91%
CMY	1.0000, 0.0667, 0.0901
CMYK	1.00, 0.00, 0.03, 0.07
HSL	178°, 100%, 47%
HSV	178°, 100%, 93%
XYZ	45.1412, 66.9753, 86.9186
YIQ	166.1540, -139.9220, -52.3220

# Conversions

## Conversions Part 2

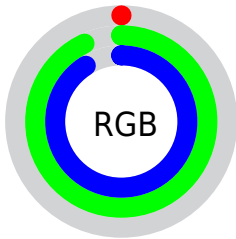
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 121, 238
Decimal	61160
CIELab	85.49, -47.36, -10.54
CIELCh	85, 48.518, 192.553
Yxy	66.9753, 0.2268, 0.3365
Android (android.graphics.Color)	4278251240 (0xFF00EEE8)
YUV	166.1540, 32.4621, -145.7171
Hunter-Lab	81.8384, -44.7587, -5.6836

# Details

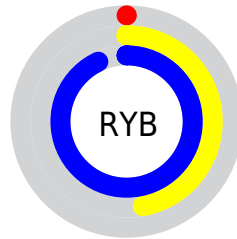
The Yxy color **66.9753, 0.2268, 0.3365** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **18.1908, 0.6381, 0.3289**, and the grayscale version is **38.1052, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **36.1823, 0.2270, 0.3372** is the 20% darker color. If you saturate the color by 10%, you get **66.9794, 0.2268, 0.3365**, and if you desaturate by 10%, it is **67.2051, 0.2278, 0.3357**.

# Distribution



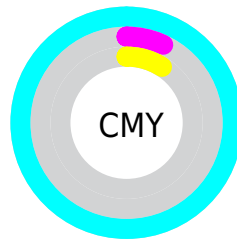
- Red (0%)
- Green (93%)
- Blue (91%)



- Red (0%)
- Yellow (47%)
- Blue (93%)



- Cyan (100%)
- Magenta (0%)
- Yellow (3%)
- Black (7%)




- Cyan (100%)
- Magenta (7%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.9753, 0.2268, 0.3365 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 66.9753, 0.2268, 0.3365 by changing the saturation by 10% instead.




 66.9753, 0.2268,  
0.3365


 66.9753, 0.2268,  
0.3365


449.8568, 0.2660,  
0.3342

 49.0646, 0.2180,  
0.3367

 114.8850, 0.2403,  
0.3359


 34.6707, 0.2074,  
0.3369


 145.6528, 0.2455,  
0.3356


 23.4093, 0.1941,  
0.3368


 181.4750, 0.2501,  
0.3353

 14.8960, 0.1771,  
0.3363

 222.7361, 0.2541,  
0.3351

 8.7465, 0.1549,  
0.3347

 269.8204, 0.2576,  
0.3348

 4.5762, 0.1250,  
0.3309

323.1124, 0.2607,

 2.0008, 0.0766,

0.3346

382.9964, 0.2635,  
0.3344

0.3235

0.6079, 0.0000,  
0.2929

0.0000, 0.0000,  
0.0000

66.9753, 0.2268,  
0.3365

66.9753, 0.2268,  
0.3365

66.9794, 0.2268,  
0.3365

67.2051, 0.2278,  
0.3357

67.6662, 0.2302,  
0.3349

68.4365, 0.2345,  
0.3341

69.5597, 0.2406,  
0.3333

■ 71.0725, 0.2488,  
0.3325

■ 73.0070, 0.2587,  
0.3317

■ 75.3919, 0.2704,  
0.3309

■ 78.2536, 0.2835,  
0.3302

■ 81.6161, 0.2977,  
0.3296

# Harmonies

## Analogous

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



66.9753, 0.2698, 0.3970



66.9753, 0.2268, 0.3365



66.9753, 0.2068, 0.2809

# Triad

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



66.9753, 0.2268, 0.3365



66.9753, 0.2892, 0.2450



66.9753, 0.4225, 0.4030

# Complementary

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



66.9753, 0.2268, 0.3365



18.1908, 0.6381, 0.3289

# 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.



66.9753, 0.4316, 0.3588



66.9753, 0.2268, 0.3365



66.9753, 0.3503, 0.2726

# Square

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



66.9753, 0.2268, 0.3365



66.9753, 0.2399, 0.2350



66.9753, 0.4046, 0.3128



66.9753, 0.3831, 0.4337

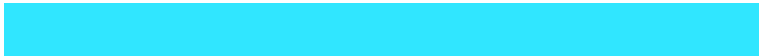


# Rectangle

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



66.9753, 0.2268, 0.3365



66.9753, 0.2072, 0.2552



66.9753, 0.4046, 0.3128



66.9753, 0.4294, 0.3890

# Sweetspot

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



66.9794, 0.2268, 0.3365



88.1413, 0.2703, 0.3309



61.2023, 0.3005, 0.5996



18.5996, 0.2651, 0.3313



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.



66.9794, 0.2268, 0.3365



78.3351, 0.2268, 0.3365



21.3353, 0.1796, 0.1665



17.9217, 0.2984, 0.3296



37.3696, 0.2268, 0.3364



3.1110, 0.2265, 0.3353



# Inverse Universe

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



18.1908, 0.6381, 0.3289



21.2740, 0.6383, 0.3290



29.5615, 0.5530, 0.3991



15.7653, 0.3289, 0.3285



10.1511, 0.6374, 0.3285

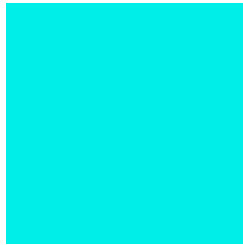


0.8467, 0.6304, 0.3247



# Previews

## White Background



This preview shows how the Yxy color 66.9753, 0.2268, 0.3365 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

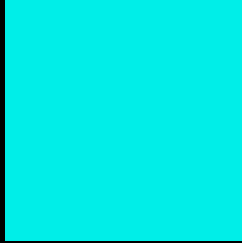
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.9753, 0.2268, 0.3365 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

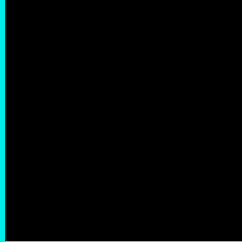
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.9753, 0.2268, 0.3365**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.9753, 0.2268, 0.3365.



This preview shows how white text looks on a background with the Yxy color 66.9753, 0.2268, 0.3365.

# 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

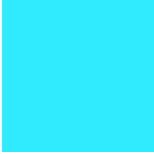
66.9753, 0.2268, 0.3365

### Protanopia

65.8425, 0.3115, 0.3234

### Deuteranopia

65.5903, 0.3005, 0.2934



## **Tritanopia**

67.2008, 0.2217, 0.3052

# Trichromacy



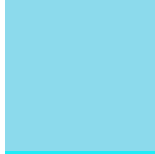
## Original Color

66.9753, 0.2268, 0.3365



## Protanomaly

62.2211, 0.2590, 0.3276



## Deuteranomaly

61.7744, 0.2534, 0.3067



## Tritanomaly

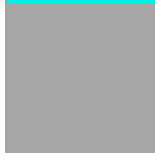
66.9360, 0.2229, 0.3161

# Monochromacy



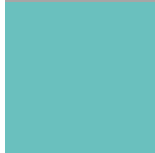
## Original Color

66.9753, 0.2268, 0.3365



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

44.4812, 0.2542, 0.3318

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.9753, 0.2268, 0.3365 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, 238, 232)` looks like.

```
.text, #text, p{  
    color:rgb(0, 238, 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(0, 238, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 238, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 66.9753, 0.2268, 0.3365 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, 238, 232) }
```

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

```
.border{ border-color:rgb(0, 238, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 238, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 238, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 238, 232);  
box-shadow:4px 4px 4px 4px rgb(0, 238,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.9753, 0.2268, 0.3365 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 238, 232) }
```

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

```
.background{ background-color: rgb(0, 238,  
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](#).

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