

# Converting Colors

$Y_{xy}(57.3625, 0.1509, 0.3220)$

Have a look what the booklet for  
Yxy(57.3625, 0.1509, 0.3220)  
contains.

<b>Yxy(67.5599, 0.2232, 0.3236)</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(67.5599, 0.2232, 0.3236)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EEF2
RGB	0, 238, 242
RGB Percent	0%, 93%, 95%
CMY	1.0000, 0.0666, 0.0508
CMYK	1.00, 0.02, 0.00, 0.05
HSL	181°, 100%, 47%
HSV	181°, 100%, 95%
XYZ	46.5988, 67.5599, 94.6173
YIQ	167.2940, -143.1320, -49.2120

# Conversions

## Conversions Part 2

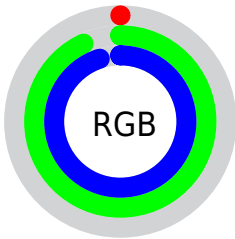
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 120, 242
Decimal	61170
CIELab	85.79, -44.47, -15.36
CIELCh	86, 47.051, 199.054
Yxy	67.5599, 0.2232, 0.3236
Android (android.graphics.Color)	4278251250 (0xFF00EEF2)
YUV	167.2940, 36.8301, -146.7168
Hunter-Lab	82.1948, -42.6438, -10.7144

# Details

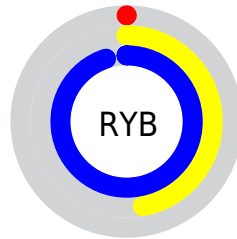
The Yxy color **67.5599, 0.2232, 0.3236** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **18.9714, 0.6392, 0.3307**, and the grayscale version is **38.6680, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5219, 0.2436, 0.3288**, and **36.5929, 0.2224, 0.3205** is the 20% darker color. If you saturate the color by 10%, you get **67.5669, 0.2232, 0.3236**, and if you desaturate by 10%, it is **67.9985, 0.2246, 0.3241**.

# Distribution



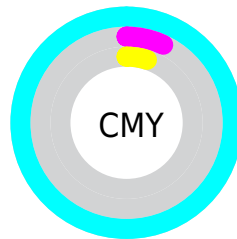
- Red (0%)
- Green (93%)
- Blue (95%)



- Red (0%)
- Yellow (47%)
- Blue (95%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (5%)




- Cyan (100%)
- Magenta (7%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.5599, 0.2232, 0.3236 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 67.5599, 0.2232, 0.3236 by changing the saturation by 10% instead.




 67.5599, 0.2232,  
0.3236

 67.5599, 0.2232,  
0.3236

451.9351, 0.2637,  
0.3276


 49.5398, 0.2142,  
0.3223


 115.7223, 0.2370,  
0.3253


 35.0479, 0.2033,  
0.3206


 146.6334, 0.2425,  
0.3258


 23.6997, 0.1898,  
0.3181


 182.6103, 0.2472,  
0.3263

 15.1110, 0.1727,  
0.3144

 224.0373, 0.2513,  
0.3266

 8.8974, 0.1506,  
0.3085

 271.2989, 0.2550,  
0.3269

 4.6743, 0.1212,  
0.2985

324.7795, 0.2582,

 2.0575, 0.0785,

0.3272

0.2805

384.8635, 0.2611,  
0.3274

■ 0.6405, 0.0000,  
0.2410

■ 0.0000, 0.0000,  
0.0000

■ 67.5599, 0.2232,  
0.3236

■ 67.5599, 0.2232,  
0.3236

■ 67.5669, 0.2232,  
0.3236

■ 67.9985, 0.2246,  
0.3241

■ 68.6756, 0.2273,  
0.3247

■ 69.6746, 0.2319,  
0.3252

■ 71.0410, 0.2384,  
0.3258

■ 72.8131, 0.2469,  
0.3264

■ 75.0243, 0.2573,  
0.3270

■ 77.7047, 0.2693,  
0.3275

■ 80.8815, 0.2827,  
0.3280

■ 84.5800, 0.2973,  
0.3285

# Harmonies

## Analogous

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



67.5599, 0.2607, 0.3829



67.5599, 0.2232, 0.3236



67.5599, 0.2089, 0.2734

# Triad

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



67.5599, 0.2232, 0.3236



67.5599, 0.3024, 0.2519



67.5599, 0.4129, 0.4090

# Complementary

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



67.5599, 0.2232, 0.3236



18.9714, 0.6392, 0.3307

# 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.



67.5599, 0.4288, 0.3680



67.5599, 0.2232, 0.3236



67.5599, 0.3618, 0.2819

# Square

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



67.5599, 0.2232, 0.3236



67.5599, 0.2510, 0.2382



67.5599, 0.4100, 0.3229



67.5599, 0.3702, 0.4334

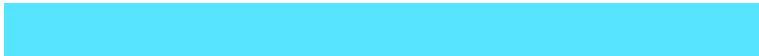


# Rectangle

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



67.5599, 0.2232, 0.3236



67.5599, 0.2127, 0.2516



67.5599, 0.4100, 0.3229



67.5599, 0.4218, 0.3964

# Sweetspot

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



67.5669, 0.2232, 0.3236



87.4543, 0.2692, 0.3275



63.5268, 0.3000, 0.6000



18.4319, 0.2639, 0.3273



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.



67.5669, 0.2232, 0.3236



76.0611, 0.2232, 0.3236



20.0924, 0.1764, 0.1549



17.8811, 0.2981, 0.3286



36.3062, 0.2233, 0.3237



3.0347, 0.2235, 0.3244



# Inverse Universe

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



25.0575, 0.3252, 0.1565



28.2096, 0.3252, 0.1565



32.5633, 0.5432, 0.4069



16.0266, 0.3141, 0.3061



13.4585, 0.3251, 0.1565

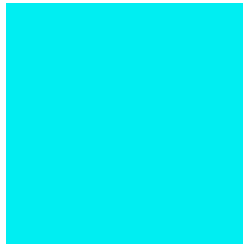


1.1211, 0.3245, 0.1561



# Previews

## White Background



This preview shows how the Yxy color 67.5599, 0.2232, 0.3236 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

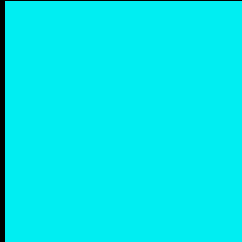
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.5599, 0.2232, 0.3236 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

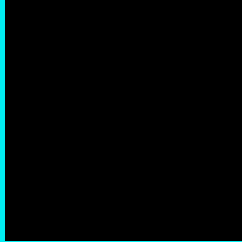
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.5599, 0.2232, 0.3236**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.5599, 0.2232, 0.3236.



This preview shows how white text looks on a background with the Yxy color 67.5599, 0.2232, 0.3236.

# 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

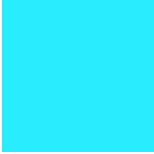
67.5599, 0.2232, 0.3236

### Protanopia

66.1709, 0.3047, 0.3134

### Deuteranopia

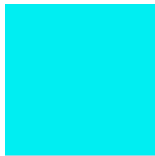
66.5502, 0.2912, 0.2851



## Tritanopia

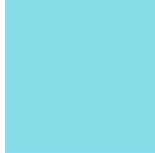
67.7031, 0.2209, 0.3052

# Trichromacy



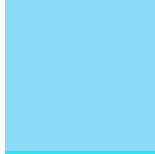
## Original Color

67.5599, 0.2232, 0.3236



## Protanomaly

62.7167, 0.2545, 0.3164



## Deuteranomaly

62.6352, 0.2473, 0.2962



## Tritanomaly

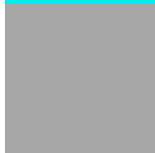
67.7035, 0.2215, 0.3125

# Monochromacy



## Original Color

67.5599, 0.2232, 0.3236



## Achromatopsia

38.6429, 0.3127, 0.3290



## Achromatomaly

45.0991, 0.2523, 0.3274

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.5599, 0.2232, 0.3236 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, 242)` looks like.

```
.text, #text, p{  
    color:rgb(0, 238, 242)  
}
```

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, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 238, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 67.5599, 0.2232, 0.3236 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, 242) }
```

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

```
.border{ border-color:rgb(0, 238, 242) }
```

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, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 238, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 238, 242);  
box-shadow:4px 4px 4px 4px rgb(0, 238,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.5599, 0.2232, 0.3236 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, 242) }
```

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

```
.background{ background-color: rgb(0, 238,  
242) }
```

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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