

# Converting Colors

$Yxy(66.2685, 0.2347, 0.3342)$

Have a look what the booklet for  
Yxy(66.2685, 0.2347, 0.3342)  
contains.

<b>Yxy(66.4694, 0.2350, 0.3352)</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(66.4694, 0.2350, 0.3352)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47EBE6
RGB	71, 235, 230
RGB Percent	28%, 92%, 90%
CMY	0.7207, 0.0785, 0.0981
CMYK	0.70, 0.00, 0.02, 0.08
HSL	178°, 80%, 60%
HSV	178°, 70%, 92%
XYZ	46.6000, 66.4694, 85.2284
YIQ	185.3940, -96.1390, -36.3230

# Conversions

## Conversions Part 2

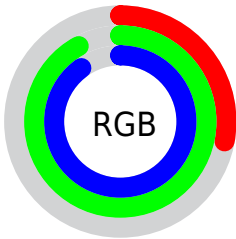
<b>Format</b>	<b>Color</b>
<b>RYB</b>	71, 154, 235
Decimal	4713446
CIELab	85.24, -42.10, -9.78
CIELCh	85, 43.216, 193.074
Yxy	66.4694, 0.2350, 0.3352
Android (android.graphics.Color)	4282903526 (0xFF47EBE6)
YUV	185.3940, 21.9908, -100.3235
Hunter-Lab	81.5288, -40.6489, -4.9103

# Details

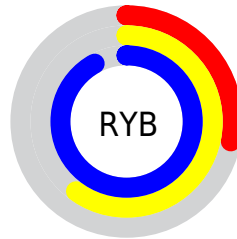
The Yxy color **66.4694, 0.2350, 0.3352** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light muted cyan. A complement of this color would be **22.7200, 0.5419, 0.3254**, and the grayscale version is **48.6963, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.4027, 0.2524, 0.3288**, and **34.9359, 0.2261, 0.3338** is the 20% darker color. If you saturate the color by 10%, you get **65.7054, 0.2307, 0.3362**, and if you desaturate by 10%, it is **67.5823, 0.2412, 0.3342**.

# Distribution



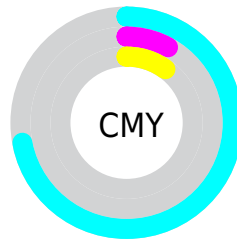
- Red (28%)
- Green (92%)
- Blue (90%)



- Red (28%)
- Yellow (60%)
- Blue (92%)



- Cyan (70%)
- Magenta (0%)
- Yellow (2%)
- Black (8%)



- Cyan (72%)
- Magenta (8%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.4694, 0.2350, 0.3352 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 66.4694, 0.2350, 0.3352 by changing the saturation by 10% instead.




 66.4694, 0.2350,  
0.3352


 66.4694, 0.2350,  
0.3352


448.0537, 0.2707,  
0.3333


 48.6535, 0.2270,  
0.3354


 114.1598, 0.2473,  
0.3347


 34.3447, 0.2172,  
0.3355


 144.8031, 0.2521,  
0.3345

 23.1586, 0.2049,  
0.3355


 180.4910, 0.2562,  
0.3342

 14.7106, 0.1891,  
0.3351

 221.6080, 0.2599,  
0.3340

 8.6166, 0.1682,  
0.3338

268.5383, 0.2630,  
0.3338

 4.4919, 0.1397,  
0.3306

321.6665, 0.2659,

 1.9524, 0.0954,

0.3336

381.3768, 0.2684,  
0.3334

0.3236

0.5796, 0.0000,  
0.2990

0.0000, 0.0000,  
0.0000

66.4694, 0.2350,  
0.3352

66.4694, 0.2350,  
0.3352

65.7054, 0.2307,  
0.3362

67.5823, 0.2412,  
0.3342

65.2406, 0.2283,  
0.3372


69.0718, 0.2494,  
0.3332

65.0085, 0.2273,  
0.3382


70.9715, 0.2594,  
0.3323


65.0026, 0.2273,  
0.3382

73.3091, 0.2710,  
0.3314

 76.1101, 0.2840,  
0.3305

 79.3978, 0.2982,  
0.3297

 83.1941, 0.3132,  
0.3290

 86.7118, 0.3258,  
0.3283

 86.7536, 0.3253,  
0.3276

# Harmonies

## Analogous

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



66.4694, 0.2738, 0.3883



66.4694, 0.2350, 0.3352



66.4694, 0.2169, 0.2858

# Triad

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



66.4694, 0.2350, 0.3352



66.4694, 0.2929, 0.2532



66.4694, 0.4109, 0.3970

# Complementary

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



66.4694, 0.2350, 0.3352



22.7200, 0.5419, 0.3254

# 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.



66.4694, 0.4191, 0.3576



66.4694, 0.2350, 0.3352



66.4694, 0.3475, 0.2787

# Square

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



66.4694, 0.2350, 0.3352



66.4694, 0.2479, 0.2440



66.4694, 0.3954, 0.3156



66.4694, 0.3757, 0.4231



# Rectangle

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



66.4694, 0.2350, 0.3352



66.4694, 0.2174, 0.2625



66.4694, 0.3954, 0.3156



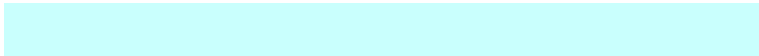
66.4694, 0.4171, 0.3847

# Sweetspot

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



66.4719, 0.2350, 0.3352



91.1151, 0.2821, 0.3306



61.4336, 0.3042, 0.5515



19.2947, 0.2784, 0.3308



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.



66.4719, 0.2350, 0.3352



78.7932, 0.2294, 0.3367



31.9923, 0.2063, 0.2205



17.1135, 0.2985, 0.3297



36.1838, 0.2272, 0.3381



2.8438, 0.2269, 0.3367



# Inverse Universe

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



22.7200, 0.5419, 0.3254



23.0401, 0.6034, 0.3267



39.1874, 0.4772, 0.4071



15.0615, 0.3288, 0.3283



9.8419, 0.6368, 0.3282

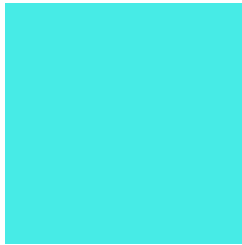


0.7755, 0.6279, 0.3233



# Previews

## White Background



This preview shows how the Yxy color 66.4694, 0.2350, 0.3352 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

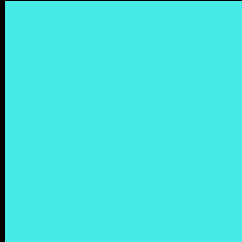
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.4694, 0.2350, 0.3352 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

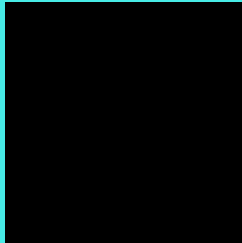
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.4694, 0.2350, 0.3352**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.4694, 0.2350, 0.3352.

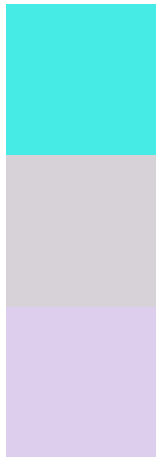


This preview shows how white text looks on a background with the Yxy color 66.4694, 0.2350, 0.3352.

# 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

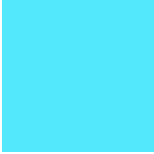
66.4694, 0.2350, 0.3352

### Protanopia

65.2956, 0.3122, 0.3234

### Deuteranopia

65.4144, 0.3025, 0.2965



## Tritanopia

66.5173, 0.2288, 0.3054

# Trichromacy



## Original Color

66.4694, 0.2350, 0.3352



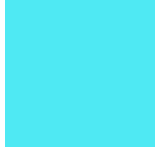
## Protanomaly

63.5117, 0.2742, 0.3277



## Deuteranomaly

63.6732, 0.2685, 0.3087



## Tritanomaly

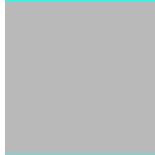
66.4112, 0.2311, 0.3162

# Monochromacy



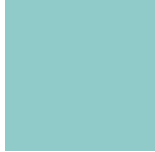
## Original Color

66.4694, 0.2350, 0.3352



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

52.8582, 0.2722, 0.3315

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.4694, 0.2350, 0.3352 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(71, 235, 230)` looks like.

```
.text, #text, p{  
    color:rgb(71, 235, 230)  
}
```

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(71, 235, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 235, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 66.4694, 0.2350, 0.3352 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(71, 235, 230) }
```

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

```
.border{ border-color:rgb(71, 235, 230) }
```

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

Here you see how a box with a 4 pixel rgb(71, 235, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 235, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 235, 230);  
box-shadow:4px 4px 4px 4px rgb(71, 235,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.4694, 0.2350, 0.3352 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 235, 230) }
```

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

```
.background{ background-color: rgb(71, 235,  
230) }
```

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