

# Converting Colors

$Yxy(66.1712, 0.2290, 0.3137)$

Have a look what the booklet for  
Yxy(66.1712, 0.2290, 0.3137)  
contains.

<b>Yxy(66.2869, 0.2289, 0.3137)</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(66.2869, 0.2289, 0.3137)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49E9F5
RGB	73, 233, 245
RGB Percent	29%, 91%, 96%
CMY	0.7139, 0.0863, 0.0391
CMYK	0.70, 0.05, 0.00, 0.04
HSL	184°, 90%, 62%
HSV	184°, 70%, 96%
XYZ	48.3681, 66.2869, 96.6517
YIQ	186.5280, -99.2120, -30.1880

# Conversions

## Conversions Part 2

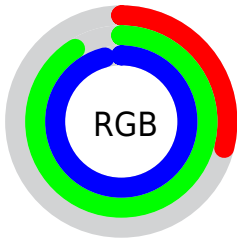
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	73, 156, 245
Decimal	4844021
CIE <sub>Lab</sub>	85.14, -36.77, -17.83
CIE <sub>LCh</sub>	85, 40.866, 205.865
Yxy	66.2869, 0.2289, 0.3137
Android (android.graphics.Color)	4283034101 (0xFF49E9F5)
YUV	186.5280, 28.8267, -99.5641
Hunter-Lab	81.4168, -36.4360, -13.3927

# Details

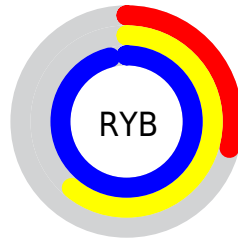
The Yxy color **66.2869, 0.2289, 0.3137** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **26.3917, 0.5422, 0.3398**, and the grayscale version is **49.2867, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.5796, 0.2532, 0.3288**, and **35.1184, 0.2192, 0.3090** is the 20% darker color. If you saturate the color by 10%, you get **64.5494, 0.2237, 0.3113**, and if you desaturate by 10%, it is **68.4154, 0.2361, 0.3161**.

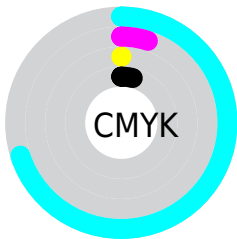
# Distribution



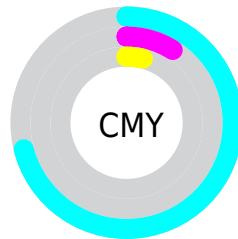
- Red (29%)
- Green (91%)
- Blue (96%)



- Red (29%)
- Yellow (61%)
- Blue (96%)



- Cyan (70%)
- Magenta (5%)
- Yellow (0%)
- Black (4%)




- Cyan (71%)
- Magenta (9%)
- Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.2869, 0.2289, 0.3137 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 66.2869, 0.2289, 0.3137 by changing the saturation by 10% instead.




 66.2869, 0.2289,  
0.3137


 66.2869, 0.2289,  
0.3137


447.4022, 0.2670,  
0.3222


 48.5053, 0.2204,  
0.3114

 113.8980, 0.2419,  
0.3169


 34.2272, 0.2101,  
0.3085


 144.4964, 0.2471,  
0.3181

 23.0682, 0.1973,  
0.3045

 180.1357, 0.2515,  
0.3190

 14.6439, 0.1810,  
0.2989

 221.2006, 0.2554,  
0.3199

 8.5698, 0.1597,  
0.2906

268.0752, 0.2588,  
0.3206

 4.4617, 0.1312,  
0.2773

321.1442, 0.2618,

 1.9350, 0.0914,

0.3212

0.2543

380.7917, 0.2646,  
0.3217

■ 0.5693, 0.0000,  
0.2073

■ 0.0000, 0.0000,  
0.0000

■ 66.2869, 0.2289,  
0.3137

■ 66.2869, 0.2289,  
0.3137

■ 64.5494, 0.2237,  
0.3113

■ 68.4154, 0.2361,  
0.3161

■ 63.1482, 0.2203,  
0.3089

■ 70.9670, 0.2452,  
0.3185


■ 62.0298, 0.2185,  
0.3066


■ 73.9788, 0.2560,  
0.3208

■ 77.4819, 0.2685,  
0.3231

 81.5044, 0.2822,  
0.3252

 86.0725, 0.2969,  
0.3271

 91.2104, 0.3124,  
0.3290

 94.1925, 0.3191,  
0.3306

 95.2427, 0.3189,  
0.3323

# Harmonies

## Analogous

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



66.2869, 0.2582, 0.3646



66.2869, 0.2289, 0.3137



66.2869, 0.2207, 0.2731

# Triad

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



66.2869, 0.2289, 0.3137



66.2869, 0.3157, 0.2655



66.2869, 0.3943, 0.4065

# Complementary

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



66.2869, 0.2289, 0.3137



26.3917, 0.5422, 0.3398

# 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.



66.2869, 0.4138, 0.3733



66.2869, 0.2289, 0.3137



66.2869, 0.3668, 0.2952

# Square

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



66.2869, 0.2289, 0.3137



66.2869, 0.2676, 0.2497



66.2869, 0.4040, 0.3334



66.2869, 0.3533, 0.4213

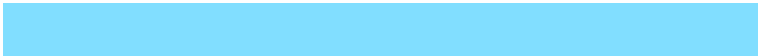


# Rectangle

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



66.2869, 0.2289, 0.3137



66.2869, 0.2274, 0.2565



66.2869, 0.4040, 0.3334



66.2869, 0.4037, 0.3969

# Sweetspot

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



66.2894, 0.2289, 0.3137



88.8560, 0.2810, 0.3250



67.3826, 0.2987, 0.5437



18.7483, 0.2771, 0.3244



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.



66.2894, 0.2289, 0.3137



70.0276, 0.2222, 0.3104



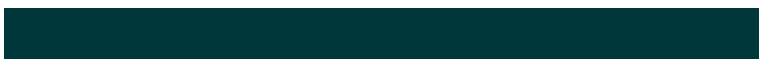
29.0389, 0.1993, 0.1946



18.5479, 0.2981, 0.3273



33.4939, 0.2186, 0.3070



3.0022, 0.2194, 0.3100



# Inverse Universe

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



30.0603, 0.3322, 0.1824



29.1254, 0.3360, 0.1694



48.8213, 0.4635, 0.4243



16.7471, 0.3149, 0.3073



13.4806, 0.3393, 0.1643

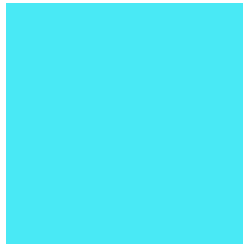


1.1907, 0.3367, 0.1629



# Previews

## White Background



This preview shows how the Yxy color 66.2869, 0.2289, 0.3137 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

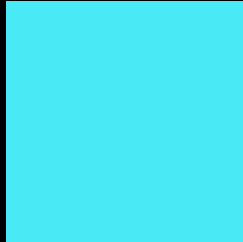
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.2869, 0.2289, 0.3137 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 66.2869, 0.2289, 0.3137**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.2869, 0.2289, 0.3137.

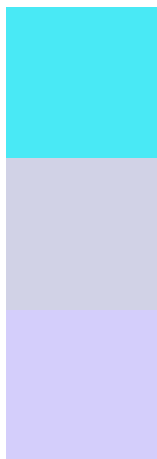


This preview shows how white text looks on a background with the Yxy color 66.2869, 0.2289, 0.3137.

# 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

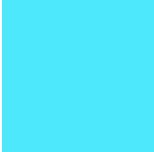
66.2869, 0.2289, 0.3137

### Protanopia

65.3617, 0.2985, 0.3067

### Deuteranopia

65.1047, 0.2871, 0.2805



## **Tritanopia**

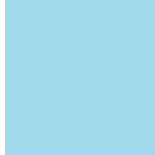
66.2560, 0.2273, 0.3053

# Trichromacy



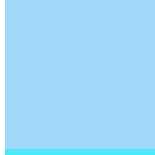
## Original Color

66.2869, 0.2289, 0.3137



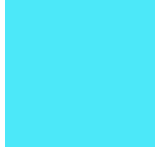
## Protanomaly

63.6145, 0.2646, 0.3085



## Deuteranomaly

63.5284, 0.2576, 0.2904



## Tritanomaly

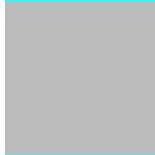
66.0893, 0.2278, 0.3076

# Monochromacy



## Original Color

66.2869, 0.2289, 0.3137



## Achromatopsia

49.6933, 0.3127, 0.3290



## Achromatomaly

53.8508, 0.2694, 0.3236

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.2869, 0.2289, 0.3137 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(73, 233, 245)` looks like.

```
.text, #text, p{  
    color:rgb(73, 233, 245)  
}
```

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(73, 233, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 233, 245) }
```

## Border

The CSS property to change the border of an element to Yxy 66.2869, 0.2289, 0.3137 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(73, 233, 245) }
```

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

```
.border{ border-color:rgb(73, 233, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 233, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 233, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 233, 245);  
box-shadow:4px 4px 4px 4px rgb(73, 233,  
245) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.2869, 0.2289, 0.3137 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 233, 245) }
```

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

```
.background{ background-color: rgb(73, 233,  
245) }
```

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