

# Converting Colors

$Y_{xy}(67.6271, 0.2243, 0.3142)$

Have a look what the booklet for  
Yxy(67.6271, 0.2243, 0.3142)  
contains.

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# Color

**Yxy(67.3966, 0.2242, 0.3137)**

# Conversions

## Conversions Part 1

Format	Color
Hex	30ECF8
RGB	48, 236, 248
RGB Percent	19%, 93%, 97%
CMY	0.8106, 0.0745, 0.0274
CMYK	0.81, 0.05, 0.00, 0.03
HSL	184°, 93%, 58%
HSV	184°, 81%, 97%
XYZ	48.1681, 67.3966, 99.2795
YIQ	181.1560, -115.9000, -36.1240

# Conversions

## Conversions Part 2

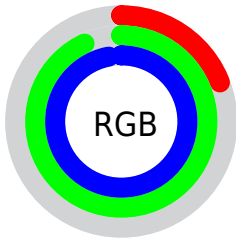
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	48, 145, 248
Decimal	3206392
CIE <sub>Lab</sub>	85.70, -39.74, -18.59
CIE <sub>LCh</sub>	86, 43.874, 205.065
Yxy	67.3966, 0.2242, 0.3137
Android (android.graphics.Color)	4281396472 (0xFF30ECF8)
YUV	181.1560, 32.9541, -116.7778
Hunter-Lab	82.0954, -38.9353, -14.2336

# Details

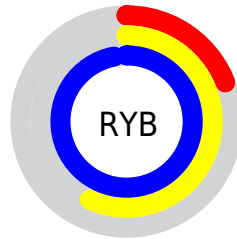
The Yxy color **67.3966, 0.2242, 0.3137** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **23.4383, 0.5881, 0.3371**, and the grayscale version is **46.2113, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4858, 0.2482, 0.3288**, and **36.4483, 0.2193, 0.3093** is the 20% darker color. If you saturate the color by 10%, you get **66.0959, 0.2210, 0.3117**, and if you desaturate by 10%, it is **69.0465, 0.2292, 0.3158**.

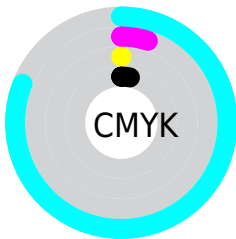
# Distribution



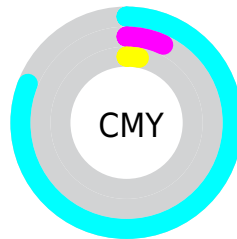
- Red (19%)
- Green (93%)
- Blue (97%)



- Red (19%)
- Yellow (57%)
- Blue (97%)



- Cyan (81%)
- Magenta (5%)
- Yellow (0%)
- Black (3%)



- Cyan (81%)
- Magenta (7%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.3966, 0.2242, 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 67.3966, 0.2242, 0.3137 by changing the saturation by 10% instead.





 67.3966, 0.2242,  
0.3137


 67.3966, 0.2242,  
0.3137


451.3552, 0.2642,  
0.3223

 49.4070, 0.2154,  
0.3114


 115.4885, 0.2378,  
0.3170

 34.9424, 0.2046,  
0.3084


 146.3596, 0.2432,  
0.3181

 23.6185, 0.1914,  
0.3043


 182.2933, 0.2479,  
0.3191

 15.0509, 0.1746,  
0.2985

 223.6741, 0.2520,  
0.3200

 8.8551, 0.1529,  
0.2899

270.8863, 0.2556,  
0.3207

 4.6468, 0.1241,  
0.2763

324.3142, 0.2588,

 2.0416, 0.0845,

0.3213

384.3424, 0.2616,  
0.3218

0.2529

0.6314, 0.0000,  
0.2089

0.0000, 0.0000,  
0.0000

67.3966, 0.2242,  
0.3137

67.3966, 0.2242,  
0.3137

66.0959, 0.2210,  
0.3117

69.0465, 0.2292,  
0.3158

65.1036, 0.2194,  
0.3098


71.0873, 0.2362,  
0.3178


73.5622, 0.2451,  
0.3199


76.5072, 0.2558,  
0.3219

 79.9542, 0.2681,  
0.3238

 83.9324, 0.2818,  
0.3256

 88.4688, 0.2965,  
0.3273

 93.5883, 0.3119,  
0.3289

 96.0479, 0.3171,  
0.3304

# Harmonies

## Analogous

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



67.3966, 0.2556, 0.3685



67.3966, 0.2242, 0.3137



67.3966, 0.2151, 0.2701

# Triad

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



67.3966, 0.2242, 0.3137



67.3966, 0.3143, 0.2610



67.3966, 0.4004, 0.4105

# Complementary

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



67.3966, 0.2242, 0.3137



23.4383, 0.5881, 0.3371

# 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.



67.3966, 0.4207, 0.3745



67.3966, 0.2242, 0.3137



67.3966, 0.3691, 0.2920

# Square

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



67.3966, 0.2242, 0.3137



67.3966, 0.2635, 0.2447



67.3966, 0.4095, 0.3321



67.3966, 0.3569, 0.4277



# Rectangle

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



67.3966, 0.2242, 0.3137



67.3966, 0.2217, 0.2523



67.3966, 0.4095, 0.3321



67.3966, 0.4103, 0.3999

# Sweetspot

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



67.3991, 0.2242, 0.3137



87.8563, 0.2769, 0.3250



68.0818, 0.2990, 0.5723



18.4826, 0.2720, 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.



67.3991, 0.2242, 0.3137



69.6602, 0.2198, 0.3104



25.6390, 0.1879, 0.1765



19.4191, 0.2980, 0.3275



35.2431, 0.2195, 0.3101



3.3169, 0.2201, 0.3125



# Inverse Universe

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



28.1518, 0.3329, 0.1707



27.7245, 0.3364, 0.1634



44.6745, 0.4909, 0.4258



17.5055, 0.3147, 0.3070



13.9687, 0.3366, 0.1628

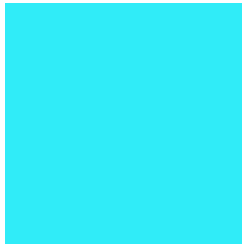


1.2991, 0.3346, 0.1617



# Previews

## White Background



This preview shows how the Yxy color 67.3966, 0.2242, 0.3137 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

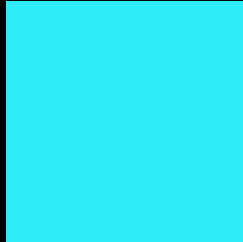
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.3966, 0.2242, 0.3137 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

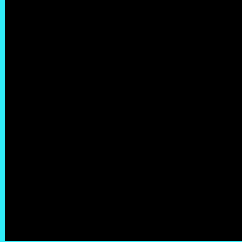
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.3966, 0.2242, 0.3137**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.3966, 0.2242, 0.3137.

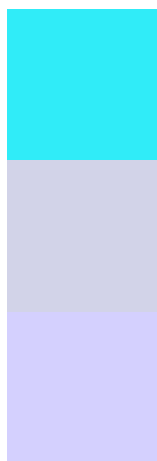


This preview shows how white text looks on a background with the Yxy color 67.3966, 0.2242, 0.3137.

# 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

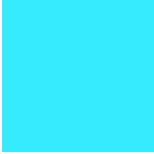
67.3966, 0.2242, 0.3137

### Protanopia

66.1164, 0.2980, 0.3057

### Deuteranopia

66.2646, 0.2854, 0.2798



## Tritanopia

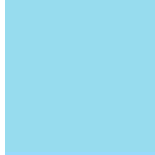
67.3567, 0.2226, 0.3053

# Trichromacy



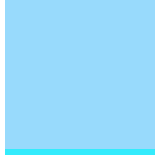
## Original Color

67.3966, 0.2242, 0.3137



## Protanomaly

63.9388, 0.2584, 0.3072



## Deuteranomaly

63.8465, 0.2516, 0.2890



## Tritanomaly

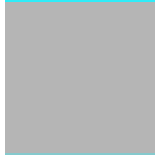
67.1750, 0.2230, 0.3076

# Monochromacy



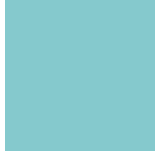
## Original Color

67.3966, 0.2242, 0.3137



## Achromatopsia

46.2077, 0.3127, 0.3290



## Achromatomaly

51.1676, 0.2628, 0.3235

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.3966, 0.2242, 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(48, 236, 248)` looks like.

```
.text, #text, p{  
    color:rgb(48, 236, 248)  
}
```

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(48, 236, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 236, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 67.3966, 0.2242, 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(48, 236, 248) }
```

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

```
.border{ border-color:rgb(48, 236, 248) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 236, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 236, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 236, 248);  
box-shadow:4px 4px 4px 4px rgb(48, 236,  
248) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.3966, 0.2242, 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(48, 236, 248) }
```

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

```
.background{ background-color: rgb(48, 236,  
248) }
```

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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