

# Converting Colors

$Y_{xy}(66.3212, 0.2450, 0.2932)$

Have a look what the booklet for  
Yxy(66.3212, 0.2450, 0.2932)  
contains.

<b>Yxy(66.4737, 0.2449, 0.2936)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(66.4737, 0.2449, 0.2936)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8AE1FF
RGB	138, 225, 255
RGB Percent	54%, 88%, 100%
CMY	0.4589, 0.1176, 0.0001
CMYK	0.46, 0.12, 0.00, 0.00
HSL	195°, 100%, 77%
HSV	195°, 46%, 100%
XYZ	55.4476, 66.4737, 104.4878
YIQ	202.4070, -61.4820, -9.1140

# Conversions

## Conversions Part 2

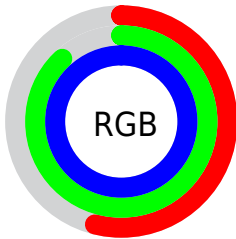
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	138, 188, 255
Decimal	9101823
CIE <sub>Lab</sub>	85.24, -18.58, -22.72
CIE <sub>LCh</sub>	85, 29.356, 230.723
Yxy	66.4737, 0.2449, 0.2936
Android (android.graphics.Color)	4287291903 (0xFF8AE1FF)
YUV	202.4070, 25.9283, -56.4849
Hunter-Lab	81.5314, -21.2863, -18.9120

# Details

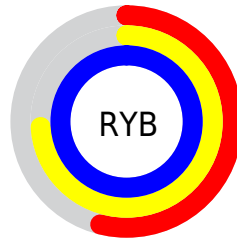
The Yxy color **66.4737, 0.2449, 0.2936** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **51.0647, 0.4223, 0.3606**, and the grayscale version is **59.1899, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.4758, 0.2784, 0.3289**, and **34.4889, 0.2299, 0.2853** is the 20% darker color. If you saturate the color by 10%, you get **61.0888, 0.2327, 0.2844**, and if you desaturate by 10%, it is **72.5089, 0.2584, 0.3024**.

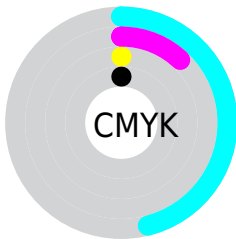
# Distribution



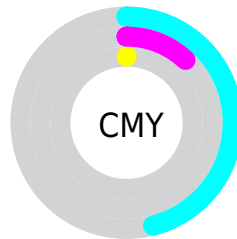
- Red (54%)
- Green (88%)
- Blue (100%)



- Red (54%)
- Yellow (74%)
- Blue (100%)



- Cyan (46%)
- Magenta (12%)
- Yellow (0%)
- Black (0%)



- Cyan (46%)
- Magenta (12%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.4737, 0.2449, 0.2936 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 66.4737, 0.2449, 0.2936 by changing the saturation by 10% instead.




 66.4737, 0.2449,  
0.2936


 66.4737, 0.2449,  
0.2936


448.0691, 0.2759,  
0.3108

 48.6570, 0.2380,  
0.2895

 114.1660, 0.2555,  
0.2997

 34.3475, 0.2295,  
0.2844

 144.8103, 0.2597,  
0.3020

 23.1607, 0.2189,  
0.2778


180.4994, 0.2633,  
0.3040

 14.7122, 0.2054,  
0.2690

221.6176, 0.2665,  
0.3058

 8.6177, 0.1875,  
0.2568

268.5492, 0.2692,  
0.3073

 4.4926, 0.1631,  
0.2390

321.6788, 0.2717,

 1.9528, 0.1284,

0.3086

0.2110

381.3906, 0.2739,  
0.3098

0.5798, 0.0277,  
0.1647

0.0000, 0.0000,  
0.0000

66.4737, 0.2449,  
0.2936

66.4737, 0.2449,  
0.2936

61.0888, 0.2327,  
0.2844

72.5089, 0.2584,  
0.3024

56.3090, 0.2221,  
0.2749

79.2211, 0.2730,  
0.3106

52.0941, 0.2135,  
0.2652

86.6442, 0.2881,  
0.3182

48.3947, 0.2068,  
0.2555

94.8075, 0.3036,  
0.3252

■ 45.1498, 0.2021,  
0.2459

99.9979, 0.3127,  
0.3290

■ 43.9110, 0.2006,  
0.2420

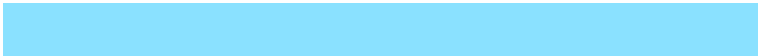
# Harmonies

## Analogous

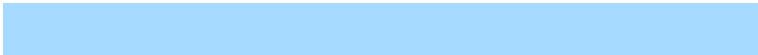
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



66.4737, 0.2542, 0.3250



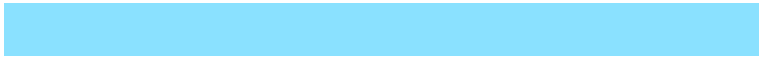
66.4737, 0.2449, 0.2936



66.4737, 0.2523, 0.2743

# Triad

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



66.4737, 0.2449, 0.2936



66.4737, 0.3459, 0.3001



66.4737, 0.3487, 0.3944

# Complementary

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



66.4737, 0.2449, 0.2936



51.0647, 0.4223, 0.3606

# 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.



66.4737, 0.3757, 0.3826



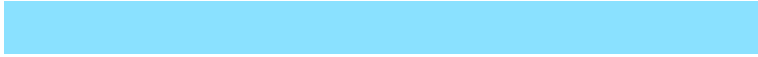
66.4737, 0.2449, 0.2936



66.4737, 0.3746, 0.3282

# Square

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



66.4737, 0.2449, 0.2936



66.4737, 0.3090, 0.2792



66.4737, 0.3856, 0.3580

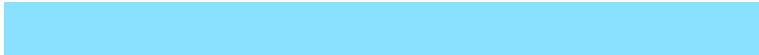


66.4737, 0.3130, 0.3866



# Rectangle

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



66.4737, 0.2449, 0.2936



66.4737, 0.2660, 0.2696



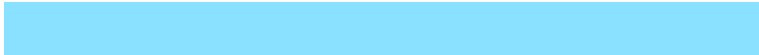
66.4737, 0.3856, 0.3580



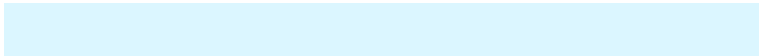
66.4737, 0.3591, 0.3924

# Sweetspot

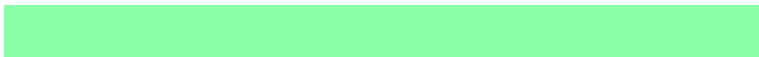
The Sweet Spot groups the original color and five complimentary colors.



66.4762, 0.2449, 0.2936



88.1531, 0.2910, 0.3196



79.6982, 0.2922, 0.4375



18.5058, 0.2877, 0.3180



0.0000, 0.0000, 0.0000

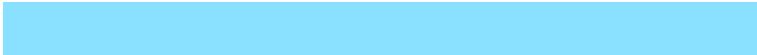


21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



66.4762, 0.2449, 0.2936



61.5595, 0.2337, 0.2852



40.3359, 0.2318, 0.2206



19.6477, 0.2980, 0.3228



23.2038, 0.2010, 0.2436



2.4348, 0.2040, 0.2545



# Inverse Universe

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



44.8587, 0.3449, 0.2421



38.5839, 0.3536, 0.2269



77.3274, 0.3934, 0.4171



18.2162, 0.3177, 0.3115



13.0704, 0.3987, 0.1970

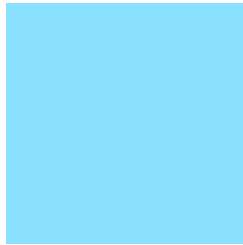


1.2903, 0.3878, 0.1910



# Previews

## White Background



This preview shows how the Yxy color 66.4737, 0.2449, 0.2936 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

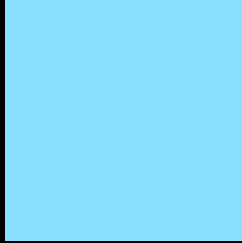
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.4737, 0.2449, 0.2936 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 66.4737, 0.2449, 0.2936**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.4737, 0.2449, 0.2936.



This preview shows how white text looks on a background with the Yxy color 66.4737, 0.2449, 0.2936.

# 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

66.4737, 0.2449, 0.2936

### Protanopia

65.8076, 0.2870, 0.2906

### Deuteranopia

65.8871, 0.2828, 0.2785



## Tritanopia

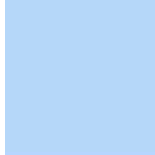
66.6816, 0.2485, 0.3072

# Trichromacy



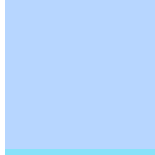
## Original Color

66.4737, 0.2449, 0.2936



## Protanomaly

65.2642, 0.2690, 0.2904



## Deuteranomaly

65.3804, 0.2668, 0.2831



## Tritanomaly

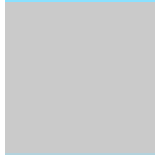
66.4665, 0.2469, 0.3014

# Monochromacy



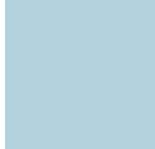
## Original Color

66.4737, 0.2449, 0.2936



## Achromatopsia

59.0619, 0.3127, 0.3290



## Achromatomaly

60.8974, 0.2836, 0.3158

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.4737, 0.2449, 0.2936 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(138, 225, 255)` looks like.

```
.text, #text, p{  
    color:rgb(138, 225, 255)  
}
```

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(138, 225, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 225, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 66.4737, 0.2449, 0.2936 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(138, 225, 255) }
```

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

```
.border{ border-color:rgb(138, 225, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(138, 225, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 225, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 225, 255);  
box-shadow:4px 4px 4px 4px rgb(138, 225,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.4737, 0.2449, 0.2936 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 225, 255) }
```

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

```
.background{ background-color: rgb(138,  
225, 255) }
```

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