

# Converting Colors

$Yxy(68.7853, 0.2333, 0.3033)$

Have a look what the booklet for  
Yxy(68.7853, 0.2333, 0.3033)  
contains.

<b>Yxy(68.8904, 0.2333, 0.3035)</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(68.8904, 0.2333, 0.3035)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66EAFF
RGB	102, 234, 255
RGB Percent	40%, 92%, 100%
CMY	0.6000, 0.0824, 0.0000
CMYK	0.60, 0.08, 0.00, 0.00
HSL	188°, 100%, 70%
HSV	188°, 60%, 100%
XYZ	52.9559, 68.8904, 105.1401
YIQ	196.9260, -85.4130, -21.4530

# Conversions

## Conversions Part 2

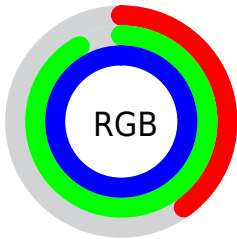
Format	Color
<a href="#">RYB</a>	102, 173, 255
Decimal	6744831
CIELab	86.45, -30.16, -21.04
CIELCh	86, 36.780, 214.902
Yxy	68.8904, 0.2333, 0.3035
Android (android.graphics.Color)	4284934911 (0xFF66E AFF)
YUV	196.9260, 28.6305, -83.2501
Hunter-Lab	83.0002, -31.3636, -17.0051

# Details

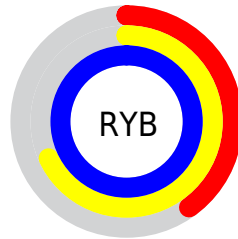
The Yxy color **68.8904, 0.2333, 0.3035** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **36.3861, 0.4876, 0.3498**, and the grayscale version is **55.6509, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.8470, 0.2633, 0.3289**, and **35.9309, 0.2159, 0.2968** is the 20% darker color. If you saturate the color by 10%, you get **65.6498, 0.2252, 0.2986**, and if you desaturate by 10%, it is **72.6294, 0.2433, 0.3083**.

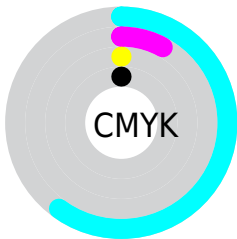
# Distribution



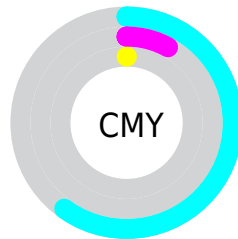
- Red (40%)
- Green (92%)
- Blue (100%)



- Red (40%)
- Yellow (68%)
- Blue (100%)



- Cyan (60%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (8%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.8904, 0.2333, 0.3035 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 68.8904, 0.2333, 0.3035 by changing the saturation by 10% instead.




 68.8904, 0.2333,  
0.3035

 68.8904, 0.2333,  
0.3035


456.6443, 0.2692,  
0.3165


 50.6225, 0.2254,  
0.3003


 117.6250, 0.2455,  
0.3082

 35.9082, 0.2158,  
0.2962


 148.8605, 0.2503,  
0.3100

 24.3633, 0.2038,  
0.2909


 185.1872, 0.2545,  
0.3115

 15.6034, 0.1887,  
0.2836

226.9897, 0.2582,  
0.3128

 9.2439, 0.1691,  
0.2734

274.6522, 0.2614,  
0.3139

 4.9006, 0.1428,  
0.2579

328.5593, 0.2643,

 2.1891, 0.1068,

0.3148

389.0952, 0.2668,  
0.3157

0.2328

0.7140, 0.0000,  
0.1974

0.0000, 0.0000,  
0.0000

68.8904, 0.2333,  
0.3035

68.8904, 0.2333,  
0.3035

65.6498, 0.2252,  
0.2986

72.6294, 0.2433,  
0.3083

62.8623, 0.2191,  
0.2937

76.9035, 0.2550,  
0.3130

60.4763, 0.2149,  
0.2888

81.7476, 0.2680,  
0.3174

58.4066, 0.2122,  
0.2840

87.1930, 0.2822,  
0.3216

■ 58.4063, 0.2122,  
0.2840

■ 93.2685, 0.2972,  
0.3255

100.0000, 0.3127,  
0.3290

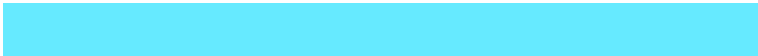
# Harmonies

## Analogous

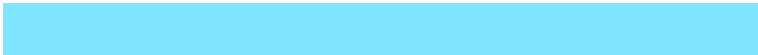
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



68.8904, 0.2544, 0.3471



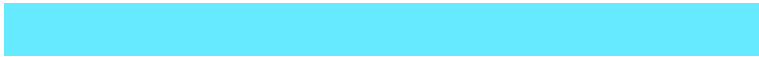
68.8904, 0.2333, 0.3035



68.8904, 0.2318, 0.2716

# Triad

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



68.8904, 0.2333, 0.3035



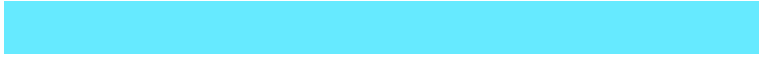
68.8904, 0.3297, 0.2789



68.8904, 0.3763, 0.4045

# Complementary

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



68.8904, 0.2333, 0.3035



36.3861, 0.4876, 0.3498

# 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.



68.8904, 0.4001, 0.3793



68.8904, 0.2333, 0.3035



68.8904, 0.3727, 0.3087

# Square

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



68.8904, 0.2333, 0.3035



68.8904, 0.2846, 0.2604



68.8904, 0.3992, 0.3445



68.8904, 0.3362, 0.4095

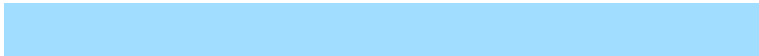


# Rectangle

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



68.8904, 0.2333, 0.3035



68.8904, 0.2417, 0.2600



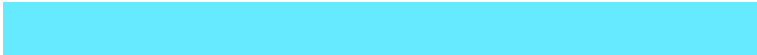
68.8904, 0.3992, 0.3445



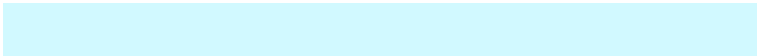
68.8904, 0.3865, 0.3978

# Sweetspot

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



68.8909, 0.2333, 0.3035



88.3559, 0.2852, 0.3224



75.7602, 0.2959, 0.5006



18.5512, 0.2809, 0.3212



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.



68.8909, 0.2333, 0.3035



65.0571, 0.2238, 0.2977



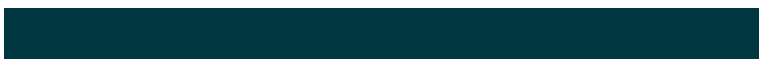
34.5336, 0.2108, 0.2035



20.0311, 0.2980, 0.3257



30.6828, 0.2125, 0.2848



3.0997, 0.2140, 0.2904



# Inverse Universe

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



36.7040, 0.3394, 0.2047



31.5195, 0.3459, 0.1887



63.0208, 0.4315, 0.4246



18.2550, 0.3159, 0.3087



13.8254, 0.3590, 0.1751



1.3575, 0.3540, 0.1724



# Previews

## White Background



This preview shows how the Yxy color 68.8904, 0.2333, 0.3035 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

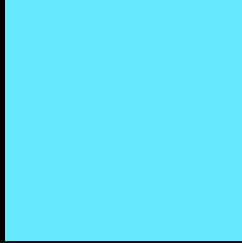
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.8904, 0.2333, 0.3035 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 68.8904, 0.2333, 0.3035**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.8904, 0.2333, 0.3035.

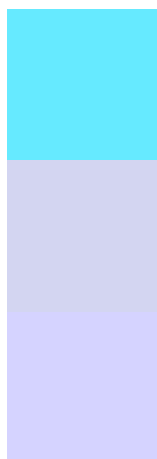


This preview shows how white text looks on a background with the Yxy color 68.8904, 0.2333, 0.3035.

# 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

68.8904, 0.2333, 0.3035

### Protanopia

67.7883, 0.2930, 0.2985

### Deuteranopia

67.9547, 0.2856, 0.2822



## Tritanopia

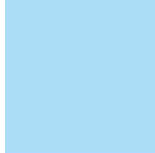
68.7042, 0.2338, 0.3058

# Trichromacy



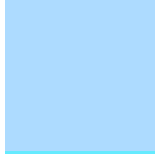
## Original Color

68.8904, 0.2333, 0.3035



## Protanomaly

67.0247, 0.2655, 0.3001



## Deuteranomaly

66.7673, 0.2616, 0.2882



## Tritanomaly

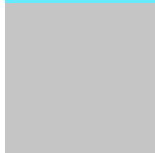
68.7681, 0.2334, 0.3047

# Monochromacy



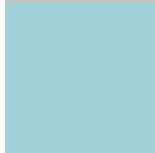
## Original Color

68.8904, 0.2333, 0.3035



## Achromatopsia

55.8340, 0.3127, 0.3290



## Achromatomaly

58.8365, 0.2743, 0.3190

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.8904, 0.2333, 0.3035 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(102, 234, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 234, 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(102, 234, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 234, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.8904, 0.2333, 0.3035 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(102, 234, 255) }
```

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

```
.border{ border-color:rgb(102, 234, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 234, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 234, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 234, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 234,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.8904, 0.2333, 0.3035 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 234, 255) }
```

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

```
.background{ background-color: rgb(102,  
234, 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