

# Converting Colors

$Yxy(66.4192, 0.2321, 0.2981)$

Have a look what the booklet for  
Yxy(66.4192, 0.2321, 0.2981)  
contains.

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# Color

**Yxy(66.6384, 0.2322, 0.2986)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66E6FF
RGB	102, 230, 255
RGB Percent	40%, 90%, 100%
CMY	0.6001, 0.0980, 0.0001
CMYK	0.60, 0.10, 0.00, 0.00
HSL	190°, 100%, 70%
HSV	190°, 60%, 100%
XYZ	51.8199, 66.6384, 104.7111
YIQ	194.5780, -84.3130, -19.3610

# Conversions

## Conversions Part 2

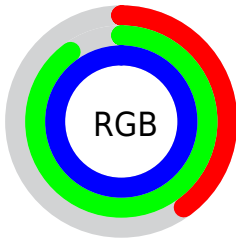
<b>Format</b>	<b>Color</b>
<b>RYB</b>	102, 172, 255
Decimal	6743807
CIELab	85.32, -28.26, -22.72
CIELCh	85, 36.263, 218.797
Yxy	66.6384, 0.2322, 0.2986
Android (android.graphics.Color)	4284933887 (0xFF66E6FF)
YUV	194.5780, 29.7880, -81.1909
Hunter-Lab	81.6323, -29.5454, -18.9096

# Details

The Yxy color **66.6384, 0.2322, 0.2986** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **37.3767, 0.4846, 0.3537**, and the grayscale version is **54.1644, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.7393, 0.2628, 0.3289**, and **34.3816, 0.2143, 0.2901** is the 20% darker color. If you saturate the color by 10%, you get **63.0858, 0.2237, 0.2927**, and if you desaturate by 10%, it is **70.7091, 0.2425, 0.3044**.

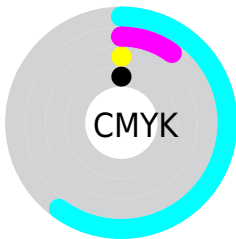
# Distribution



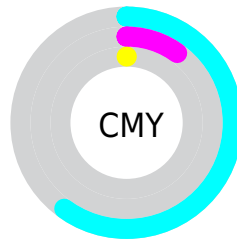
- Red (40%)
- Green (90%)
- Blue (100%)



- Red (40%)
- Yellow (67%)
- Blue (100%)



- Cyan (60%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.6384, 0.2322, 0.2986 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 66.6384, 0.2322, 0.2986 by changing the saturation by 10% instead.





 66.6384, 0.2322,  
0.2986


 66.6384, 0.2322,  
0.2986


448.6566, 0.2687,  
0.3139


 48.7908, 0.2241,  
0.2948

 114.4021, 0.2447,  
0.3041

 34.4536, 0.2143,  
0.2901


 145.0871, 0.2496,  
0.3062

 23.2423, 0.2020,  
0.2839


 180.8199, 0.2538,  
0.3080

 14.7725, 0.1865,  
0.2755

221.9850, 0.2576,  
0.3095

 8.6599, 0.1663,  
0.2637

268.9669, 0.2608,  
0.3108

 4.5200, 0.1393,  
0.2461

322.1498, 0.2638,

 1.9685, 0.1023,

0.3120

0.2178

381.9183, 0.2664,  
0.3130

0.5891, 0.0000,  
0.1706

0.0000, 0.0000,  
0.0000

66.6384, 0.2322,  
0.2986

66.6384, 0.2322,  
0.2986

63.0858, 0.2237,  
0.2927

70.7091, 0.2425,  
0.3044

59.9998, 0.2172,  
0.2868

75.3289, 0.2545,  
0.3099

57.3308, 0.2127,  
0.2809

80.5347, 0.2678,  
0.3152

54.9938, 0.2098,  
0.2751

86.3579, 0.2821,  
0.3202

■ 92.8275, 0.2972,  
0.3248

99.9706, 0.3127,  
0.3290

99.9980, 0.3127,  
0.3290

# Harmonies

## Analogous

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



66.6384, 0.2508, 0.3412



66.6384, 0.2322, 0.2986



66.6384, 0.2333, 0.2689

# Triad

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



66.6384, 0.2322, 0.2986



66.6384, 0.3356, 0.2824



66.6384, 0.3716, 0.4063

# Complementary

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



66.6384, 0.2322, 0.2986



37.3767, 0.4846, 0.3537

# 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.



66.6384, 0.3980, 0.3832



66.6384, 0.2322, 0.2986



66.6384, 0.3772, 0.3132

# Square

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



66.6384, 0.2322, 0.2986



66.6384, 0.2902, 0.2622



66.6384, 0.4006, 0.3492



66.6384, 0.3304, 0.4080

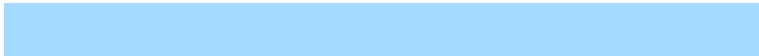


# Rectangle

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



66.6384, 0.2322, 0.2986



66.6384, 0.2448, 0.2589



66.6384, 0.4006, 0.3492



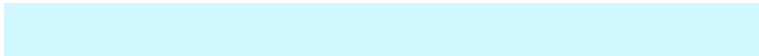
66.6384, 0.3826, 0.4004

# Sweetspot

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



66.6409, 0.2322, 0.2986



87.6248, 0.2851, 0.3212



75.8025, 0.2948, 0.4975



18.3705, 0.2808, 0.3198



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.



66.6409, 0.2322, 0.2986



62.4506, 0.2223, 0.2915



33.6606, 0.2100, 0.2001



19.9471, 0.2980, 0.3250



28.9312, 0.2100, 0.2761



2.9455, 0.2119, 0.2827



# Inverse Universe

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



36.4672, 0.3434, 0.2078



31.2563, 0.3511, 0.1922



64.1840, 0.4298, 0.4269



18.2465, 0.3163, 0.3093



13.6486, 0.3671, 0.1796

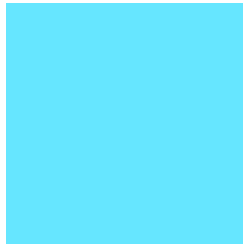


1.3419, 0.3610, 0.1762



# Previews

## White Background



This preview shows how the Yxy color 66.6384, 0.2322, 0.2986 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

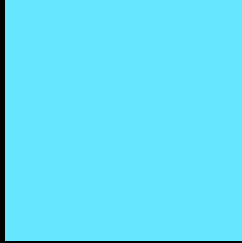
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.6384, 0.2322, 0.2986 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 66.6384, 0.2322, 0.2986**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.6384, 0.2322, 0.2986.



This preview shows how white text looks on a background with the Yxy color 66.6384, 0.2322, 0.2986.

# 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

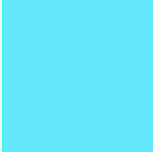
66.6384, 0.2322, 0.2986

### Protanopia

65.6258, 0.2888, 0.2937

### Deuteranopia

65.7416, 0.2821, 0.2784



## **Tritanopia**

66.7633, 0.2338, 0.3056

# Trichromacy



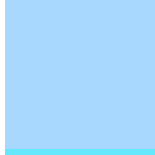
## Original Color

66.6384, 0.2322, 0.2986



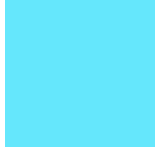
## Protanomaly

64.6659, 0.2627, 0.2941



## Deuteranomaly

64.7667, 0.2589, 0.2844



## Tritanomaly

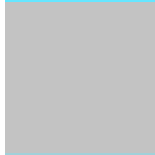
66.9468, 0.2333, 0.3033

# Monochromacy



## Original Color

66.6384, 0.2322, 0.2986



## Achromatopsia

54.5724, 0.3127, 0.3290



## Achromatomaly

57.6986, 0.2741, 0.3177

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.6384, 0.2322, 0.2986 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, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 230, 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, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 66.6384, 0.2322, 0.2986 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, 230, 255) }
```

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

```
.border{ border-color:rgb(102, 230, 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, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.6384, 0.2322, 0.2986 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 230, 255) }
```

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

```
.background{ background-color: rgb(102,  
230, 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](#).

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