

# Converting Colors

$Yxy(68.3957, 0.2417, 0.2993)$

Have a look what the booklet for  
Yxy(68.3957, 0.2417, 0.2993)  
contains.

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# Color

**Yxy(68.4028, 0.2417, 0.2993)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80E6FF
RGB	128, 230, 255
RGB Percent	50%, 90%, 100%
CMY	0.4984, 0.0980, 0.0000
CMYK	0.50, 0.10, 0.00, 0.00
HSL	192°, 100%, 75%
HSV	192°, 50%, 100%
XYZ	55.2387, 68.4028, 104.9011
YIQ	202.3520, -68.8170, -13.8490

# Conversions

## Conversions Part 2

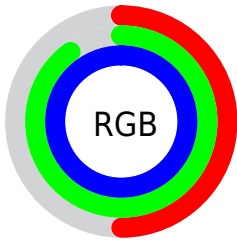
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 185, 255
Decimal	8447743
CIE <sub>Lab</sub>	86.21, -23.29, -21.31
CIE <sub>LCh</sub>	86, 31.570, 222.459
Yxy	68.4028, 0.2417, 0.2993
Android (android.graphics.Color)	4286637823 (0xFF80E6FF)
YUV	202.3520, 25.9555, -65.2067
Hunter-Lab	82.7060, -25.5166, -17.3069

# Details

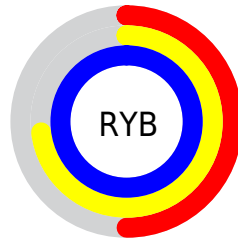
The Yxy color **68.4028, 0.2417, 0.2993** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **45.5648, 0.4405, 0.3552**, and the grayscale version is **59.1495, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.4314, 0.2742, 0.3289**, and **35.4731, 0.2258, 0.2912** is the 20% darker color. If you saturate the color by 10%, you get **63.9212, 0.2309, 0.2923**, and if you desaturate by 10%, it is **73.4660, 0.2541, 0.3061**.

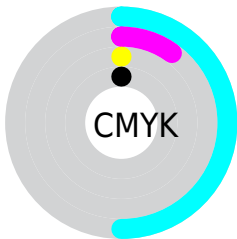
# Distribution



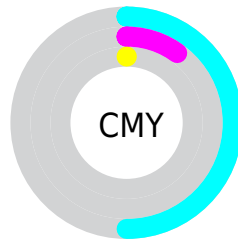
- Red (50%)
- Green (90%)
- Blue (100%)



- Red (50%)
- Yellow (73%)
- Blue (100%)



- Cyan (50%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (50%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.4028, 0.2417, 0.2993 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 68.4028, 0.2417, 0.2993 by changing the saturation by 10% instead.




 68.4028, 0.2417,  
0.2993

 68.4028, 0.2417,  
0.2993


454.9218, 0.2739,  
0.3139


 50.2255, 0.2345,  
0.2958


 116.9282, 0.2527,  
0.3045

 35.5926, 0.2258,  
0.2913


 148.0451, 0.2571,  
0.3065

 24.1197, 0.2149,  
0.2856


 184.2439, 0.2608,  
0.3082

 15.4225, 0.2011,  
0.2778

225.9092, 0.2641,  
0.3097

 9.1164, 0.1829,  
0.2670

273.4252, 0.2670,  
0.3110

 4.8172, 0.1582,  
0.2511

327.1764, 0.2696,

 2.1404, 0.1236,

0.3121

0.2256

387.5471, 0.2719,  
0.3131

0.6872, 0.0232,  
0.1881

0.0000, 0.0000,  
0.0000

68.4028, 0.2417,  
0.2993

68.4028, 0.2417,  
0.2993

63.9212, 0.2309,  
0.2923

73.4660, 0.2541,  
0.3061

59.9756, 0.2219,  
0.2851

79.1384, 0.2677,  
0.3125

56.5240, 0.2149,  
0.2778

85.4540, 0.2823,  
0.3185

53.5142, 0.2099,  
0.2706

92.4422, 0.2975,  
0.3240

■ 50.8622, 0.2065,  
0.2635

100.0000, 0.3127,  
0.3290

■ 50.8207, 0.2065,  
0.2633

# Harmonies

## Analogous

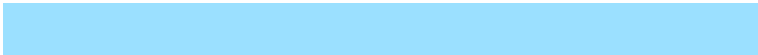
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



68.4028, 0.2562, 0.3351



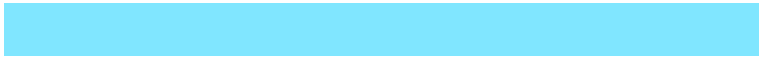
68.4028, 0.2417, 0.2993



68.4028, 0.2447, 0.2749

# Triad

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



68.4028, 0.2417, 0.2993



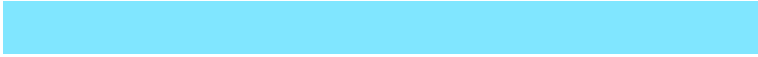
68.4028, 0.3375, 0.2912



68.4028, 0.3601, 0.3970

# Complementary

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



68.4028, 0.2417, 0.2993



45.5648, 0.4405, 0.3552

# 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.



68.4028, 0.3847, 0.3796



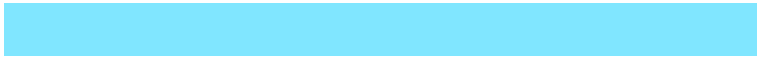
68.4028, 0.2417, 0.2993



68.4028, 0.3718, 0.3193

# Square

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



68.4028, 0.2417, 0.2993



68.4028, 0.2980, 0.2721



68.4028, 0.3894, 0.3510



68.4028, 0.3237, 0.3951

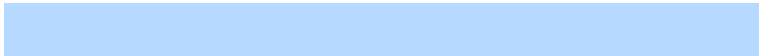


# Rectangle

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



68.4028, 0.2417, 0.2993



68.4028, 0.2562, 0.2671



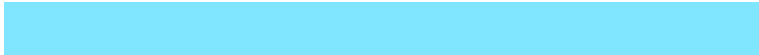
68.4028, 0.3894, 0.3510



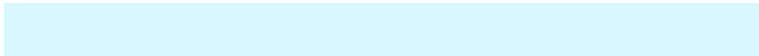
68.4028, 0.3701, 0.3930

# Sweetspot

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



68.4052, 0.2417, 0.2993



88.7493, 0.2896, 0.3212



78.3437, 0.2948, 0.4597



18.6845, 0.2864, 0.3201



0.0000, 0.0000, 0.0000

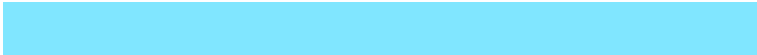


21.4041, 0.3127, 0.3290



# Same Dimension

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



68.4052, 0.2417, 0.2993



63.8532, 0.2308, 0.2922



39.8657, 0.2264, 0.2203



19.8389, 0.2980, 0.3242



26.7694, 0.2068, 0.2645



2.7540, 0.2091, 0.2727



# Inverse Universe

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



42.3897, 0.3412, 0.2287



36.1947, 0.3488, 0.2119



71.2928, 0.4053, 0.4165



18.2355, 0.3168, 0.3101



13.4304, 0.3780, 0.1856

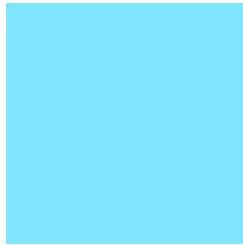


1.3226, 0.3703, 0.1813



# Previews

## White Background



This preview shows how the Yxy color 68.4028, 0.2417, 0.2993 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

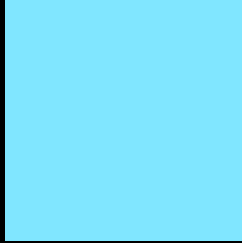
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.4028, 0.2417, 0.2993 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

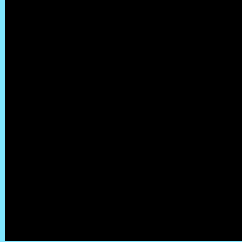
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.4028, 0.2417, 0.2993**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.4028, 0.2417, 0.2993.

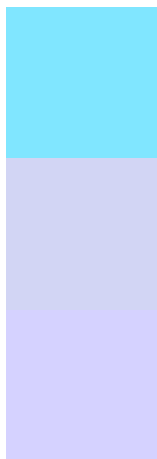


This preview shows how white text looks on a background with the Yxy color 68.4028, 0.2417, 0.2993.

# 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

68.4028, 0.2417, 0.2993

### Protanopia

67.8218, 0.2904, 0.2953

### Deuteranopia

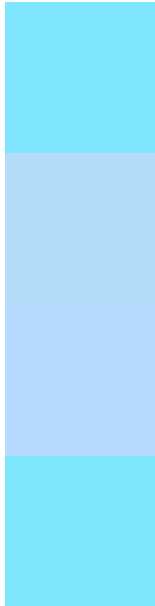
67.4593, 0.2856, 0.2811



## Tritanopia

68.4896, 0.2433, 0.3061

# Trichromacy



**Original Color**

68.4028, 0.2417, 0.2993

**Protanomaly**

67.1436, 0.2694, 0.2961

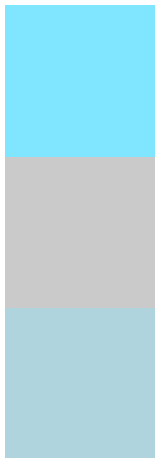
**Deuteranomaly**

66.7908, 0.2666, 0.2864

**Tritanomaly**

68.6921, 0.2429, 0.3039

# Monochromacy



**Original Color**

68.4028, 0.2417, 0.2993

**Achromatopsia**

59.0619, 0.3127, 0.3290

**Achromatomaly**

61.4214, 0.2811, 0.3181

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.4028, 0.2417, 0.2993 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(128, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(128, 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(128, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 230, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.4028, 0.2417, 0.2993 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(128, 230, 255) }
```

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

```
.border{ border-color:rgb(128, 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(128, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(128, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.4028, 0.2417, 0.2993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 230, 255) }
```

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

```
.background{ background-color: rgb(128,  
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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