

# Converting Colors

$Yxy(70.6983, 0.2500, 0.3015)$

Have a look what the booklet for  
Yxy(70.6983, 0.2500, 0.3015)  
contains.

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# Color

**Yxy(70.4828, 0.2498, 0.3011)**

# Conversions

## Conversions Part 1

Format	Color
Hex	92E7FF
RGB	146, 231, 255
RGB Percent	57%, 91%, 100%
CMY	0.4276, 0.0941, 0.0000
CMYK	0.43, 0.09, 0.00, 0.00
HSL	193°, 100%, 79%
HSV	193°, 43%, 100%
XYZ	58.4743, 70.4828, 105.1273
YIQ	208.3210, -58.3640, -10.5560

# Conversions

## Conversions Part 2

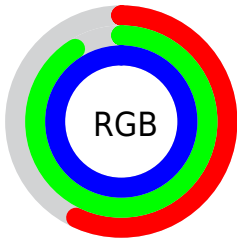
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	146, 194, 255
Decimal	9627647
CIE <sub>Lab</sub>	87.23, -19.72, -19.69
CIE <sub>LCh</sub>	87, 27.863, 224.951
Yxy	70.4828, 0.2498, 0.3011
Android (android.graphics.Color)	4287817727 (0xFF92E7FF)
YUV	208.3210, 23.0127, -54.6555
Hunter-Lab	83.9540, -22.5937, -15.4751

# Details

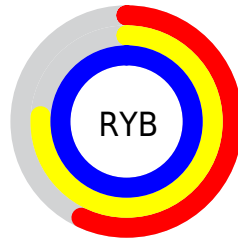
The Yxy color **70.4828, 0.2498, 0.3011** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **52.0654, 0.4139, 0.3545**, and the grayscale version is **63.1683, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.5774, 0.2827, 0.3289**, and **36.8119, 0.2358, 0.2937** is the 20% darker color. If you saturate the color by 10%, you get **65.3137, 0.2376, 0.2934**, and if you desaturate by 10%, it is **76.2791, 0.2633, 0.3085**.

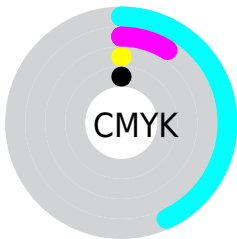
# Distribution



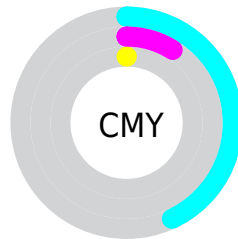
- Red (57%)
- Green (91%)
- Blue (100%)



- Red (57%)
- Yellow (76%)
- Blue (100%)



- Cyan (43%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)



- Cyan (43%)
- Magenta (9%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.4828, 0.2498, 0.3011 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 70.4828, 0.2498, 0.3011 by changing the saturation by 10% instead.



70.4828, 0.2498,  
0.3011

70.4828, 0.2498,  
0.3011

462.2434, 0.2783,  
0.3147

51.9202, 0.2435,  
0.2979

119.8970, 0.2596,  
0.3059

36.9415, 0.2357,  
0.2938

151.5174, 0.2634,  
0.3078

25.1622, 0.2261,  
0.2886

188.2593, 0.2667,  
0.3093

16.1979, 0.2137,  
0.2817

230.5069, 0.2696,  
0.3107

9.6643, 0.1974,  
0.2720

278.6447, 0.2722,  
0.3119

5.1770, 0.1752,  
0.2578

333.0572, 0.2745,

2.3515, 0.1434,

0.3129

394.1286, 0.2765,  
0.3138

0.2353

0.8008, 0.0702,  
0.2011

0.0000, 0.0000,  
0.0000

70.4828, 0.2498,  
0.3011

70.4828, 0.2498,  
0.3011

65.3137, 0.2376,  
0.2934

76.2791, 0.2633,  
0.3085

60.7276, 0.2270,  
0.2854

82.7271, 0.2778,  
0.3153

56.6870, 0.2182,  
0.2772

89.8597, 0.2930,  
0.3217

53.1453, 0.2115,  
0.2690

97.7051, 0.3084,  
0.3275

■ 50.0465, 0.2067,  
0.2608

99.9999, 0.3127,  
0.3290

■ 48.0200, 0.2042,  
0.2550

# Harmonies

## Analogous

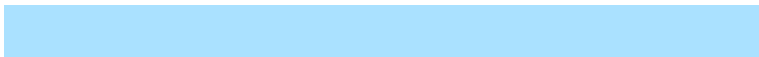
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



70.4828, 0.2615, 0.3317



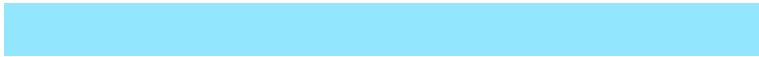
70.4828, 0.2498, 0.3011



70.4828, 0.2538, 0.2804

# Triad

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



70.4828, 0.2498, 0.3011



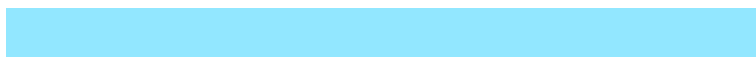
70.4828, 0.3373, 0.2976



70.4828, 0.3521, 0.3890

# Complementary

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



70.4828, 0.2498, 0.3011



52.0654, 0.4139, 0.3545

# 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.



70.4828, 0.3745, 0.3754



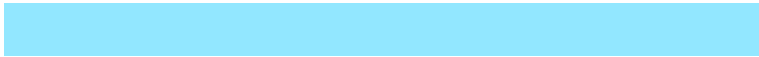
70.4828, 0.2498, 0.3011



70.4828, 0.3662, 0.3230

# Square

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



70.4828, 0.2498, 0.3011



70.4828, 0.3028, 0.2798



70.4828, 0.3800, 0.3511

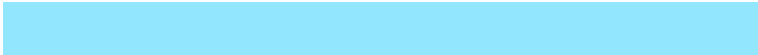


70.4828, 0.3197, 0.3853



# Rectangle

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



70.4828, 0.2498, 0.3011



70.4828, 0.2648, 0.2741



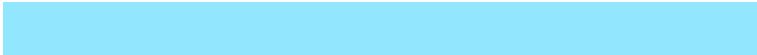
70.4828, 0.3800, 0.3511



70.4828, 0.3611, 0.3861

# Sweetspot

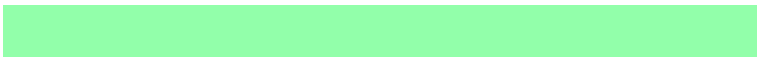
The Sweet Spot groups the original color and five complimentary colors.



70.4855, 0.2498, 0.3011



89.6807, 0.2926, 0.3215



80.5132, 0.2950, 0.4333



18.8463, 0.2892, 0.3202



0.0000, 0.0000, 0.0000

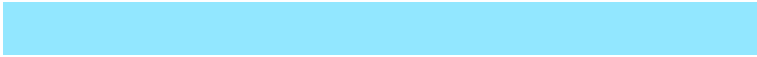


21.4041, 0.3127, 0.3290

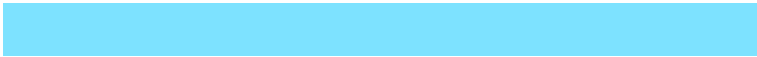


# Same Dimension

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



70.4855, 0.2498, 0.3011



66.1808, 0.2396, 0.2948



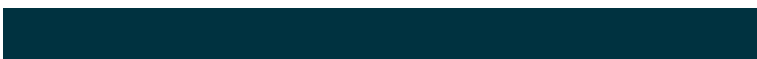
44.7158, 0.2385, 0.2339



19.7634, 0.2980, 0.3236



25.3230, 0.2045, 0.2563



2.6251, 0.2071, 0.2656



# Inverse Universe

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



47.5768, 0.3384, 0.2442



41.4269, 0.3450, 0.2292



76.7017, 0.3890, 0.4081



18.2279, 0.3172, 0.3106



13.2843, 0.3860, 0.1900

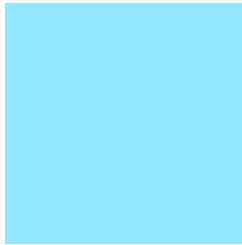


1.3095, 0.3770, 0.1851



# Previews

## White Background



This preview shows how the Yxy color 70.4828, 0.2498, 0.3011 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

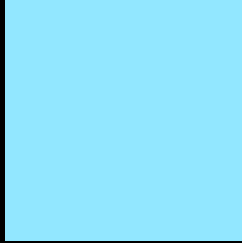
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.4828, 0.2498, 0.3011 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 70.4828, 0.2498, 0.3011**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.4828, 0.2498, 0.3011.



This preview shows how white text looks on a background with the Yxy color 70.4828, 0.2498, 0.3011.

# 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

70.4828, 0.2498, 0.3011

### Protanopia

69.8504, 0.2919, 0.2978

### Deuteranopia

69.7139, 0.2890, 0.2848



## Tritanopia

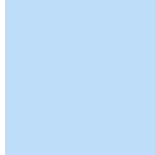
70.6351, 0.2519, 0.3078

# Trichromacy



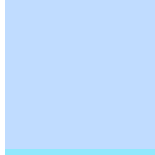
## Original Color

70.4828, 0.2498, 0.3011



## Protanomaly

69.3713, 0.2745, 0.2978



## Deuteranomaly

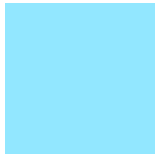
69.6129, 0.2729, 0.2905



## Tritanomaly

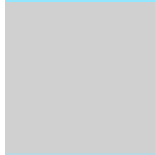
70.7612, 0.2509, 0.3056

# Monochromacy



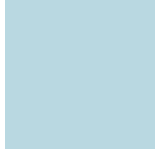
## Original Color

70.4828, 0.2498, 0.3011



## Achromatopsia

63.0757, 0.3127, 0.3290



## Achromatomaly

64.8623, 0.2855, 0.3184

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.4828, 0.2498, 0.3011 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(146, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(146, 231, 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(146, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 231, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 70.4828, 0.2498, 0.3011 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(146, 231, 255) }
```

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

```
.border{ border-color:rgb(146, 231, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(146, 231, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(146, 231, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(146, 231, 255); box-shadow:4px 4px 4px 4px rgb(146, 231, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.4828, 0.2498, 0.3011 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 231, 255) }
```

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

```
.background{ background-color: rgb(146,  
231, 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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