

# Converting Colors

$Y_{xy}(64.3471, 0.2601, 0.2830)$

Have a look what the booklet for  
Yxy(64.3471, 0.2601, 0.2830)  
contains.

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# Color

**Yxy(64.4788, 0.2599, 0.2833)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABD7FF
RGB	171, 215, 255
RGB Percent	67%, 84%, 100%
CMY	0.3293, 0.1569, 0.0000
CMYK	0.33, 0.16, 0.00, 0.00
HSL	209°, 100%, 84%
HSV	209°, 33%, 100%
XYZ	59.1530, 64.4788, 103.9672
YIQ	206.4040, -39.0640, 3.1120

# Conversions

## Conversions Part 2

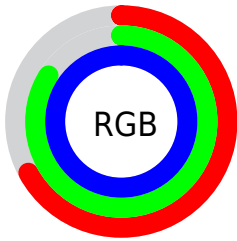
Format	Color
R <sub>Y</sub> B	171, 200, 255
Decimal	11261951
CIE Lab	84.21, -5.07, -24.16
CIE LCh	84, 24.686, 258.151
Yxy	64.4788, 0.2599, 0.2833
Android (android.graphics.Color)	4289452031 (0xFFABD7FF)
YUV	206.4040, 23.9578, -31.0493
Hunter-Lab	80.2987, -9.0286, -20.5570

# Details

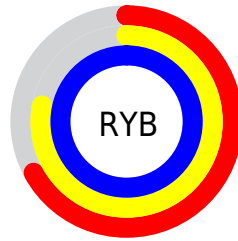
The Yxy color **64.4788, 0.2599, 0.2833** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **70.8037, 0.3762, 0.3705**, and the grayscale version is **61.8581, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.2340, 0.2964, 0.3290**, and **32.9318, 0.2474, 0.2719** is the 20% darker color. If you saturate the color by 10%, you get **55.9271, 0.2438, 0.2666**, and if you desaturate by 10%, it is **74.0423, 0.2763, 0.2988**.

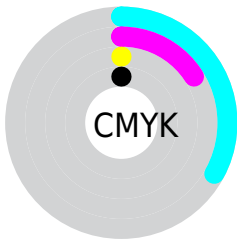
# Distribution



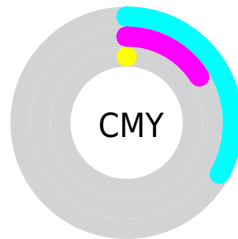
- Red (67%)
- Green (84%)
- Blue (100%)



- Red (67%)
- Yellow (78%)
- Blue (100%)



- Cyan (33%)
- Magenta (16%)
- Yellow (0%)
- Black (0%)



- Cyan (33%)
- Magenta (16%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.4788, 0.2599, 0.2833 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 64.4788, 0.2599, 0.2833 by changing the saturation by 10% instead.



■ 64.4788, 0.2599,  
0.2833

■ 64.4788, 0.2599,  
0.2833

440.9166, 0.2844,  
0.3048

■ 47.0386, 0.2543,  
0.2783

■ 111.3002, 0.2684,  
0.2908

■ 33.0662, 0.2475,  
0.2722

141.4502, 0.2717,  
0.2937

■ 22.1771, 0.2388,  
0.2643

176.6055, 0.2745,  
0.2962

■ 13.9871, 0.2276,  
0.2541

217.1506, 0.2770,  
0.2984

■ 8.1117, 0.2126,  
0.2402

263.4699, 0.2792,  
0.3003

■ 4.1665, 0.1916,  
0.2203

315.9477, 0.2811,

■ 1.7671, 0.1604,

0.3020

0.1902

374.9685, 0.2828,  
0.3035

0.4666, 0.0892,  
0.1302

0.0000, 0.0000,  
0.0000

64.4788, 0.2599,  
0.2833

64.4788, 0.2599,  
0.2833

55.9271, 0.2438,  
0.2666

74.0423, 0.2763,  
0.2988

48.3454, 0.2283,  
0.2488

84.6565, 0.2925,  
0.3129

41.6882, 0.2140,  
0.2303

96.3579, 0.3082,  
0.3256

35.9056, 0.2014,  
0.2114

100.0000, 0.3127,  
0.3290

■ 30.9408, 0.1910,  
0.1927

■ 26.7271, 0.1829,  
0.1747

■ 24.1385, 0.1785,  
0.1625

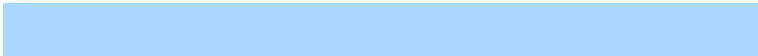
# Harmonies

## Analogous

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



64.4788, 0.2547, 0.3011



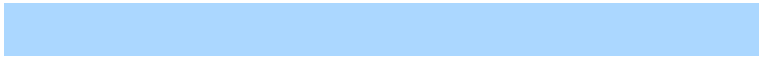
64.4788, 0.2599, 0.2833



64.4788, 0.2786, 0.2780

# Triad

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



64.4788, 0.2599, 0.2833



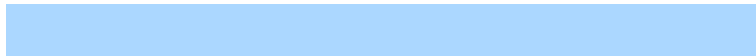
64.4788, 0.3636, 0.3264



64.4788, 0.3159, 0.3787

# Complementary

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



64.4788, 0.2599, 0.2833



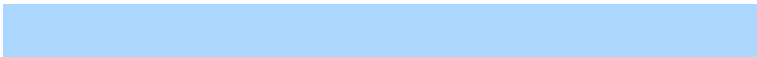
70.8037, 0.3762, 0.3705

# 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.



64.4788, 0.3459, 0.3841



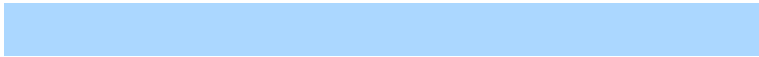
64.4788, 0.2599, 0.2833



64.4788, 0.3744, 0.3521

# Square

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



64.4788, 0.2599, 0.2833



64.4788, 0.3384, 0.3024



64.4788, 0.3677, 0.3735

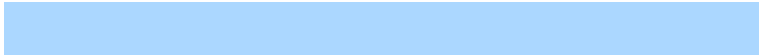


64.4788, 0.2861, 0.3577



# Rectangle

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



64.4788, 0.2599, 0.2833



64.4788, 0.2968, 0.2814



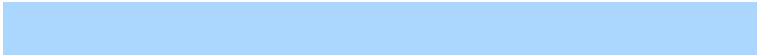
64.4788, 0.3677, 0.3735



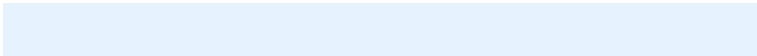
64.4788, 0.3263, 0.3824

# Sweetspot

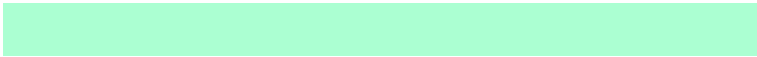
The Sweet Spot groups the original color and five complimentary colors.



64.4788, 0.2599, 0.2833



87.9732, 0.2971, 0.3167



84.8443, 0.2878, 0.3802



18.4871, 0.2949, 0.3149



0.0000, 0.0000, 0.0000

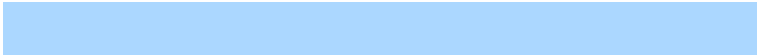


21.4041, 0.3127, 0.3290

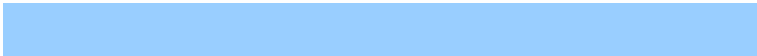


# Same Dimension

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



64.4788, 0.2599, 0.2833



58.3321, 0.2485, 0.2716



46.0841, 0.2537, 0.2340



18.9518, 0.2979, 0.3174



12.9142, 0.1793, 0.1653



1.4763, 0.1848, 0.1852



# Inverse Universe

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



55.3006, 0.3495, 0.2840



48.5186, 0.3606, 0.2741



93.9481, 0.3634, 0.4090



18.1460, 0.3212, 0.3166



12.0317, 0.4864, 0.2453

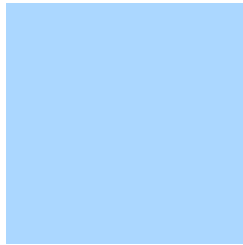


1.1936, 0.4623, 0.2321



# Previews

## White Background



This preview shows how the Yxy color 64.4788, 0.2599, 0.2833 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

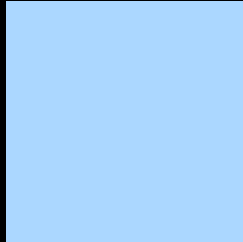
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.4788, 0.2599, 0.2833 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

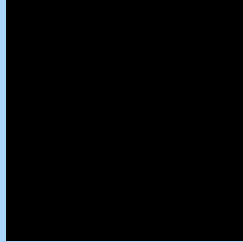
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

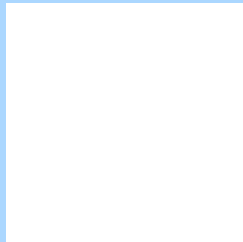
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 64.4788, 0.2599, 0.2833**

## Background



This preview shows how black text looks on a background with the Yxy color 64.4788, 0.2599, 0.2833.



This preview shows how white text looks on a background with the Yxy color 64.4788, 0.2599, 0.2833.

# 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

64.4788, 0.2599, 0.2833

### Protanopia

64.4314, 0.2805, 0.2828

### Deuteranopia

64.0045, 0.2806, 0.2749



## Tritanopia

64.4144, 0.2681, 0.3076

# Trichromacy



## Original Color

64.4788, 0.2599, 0.2833

## Protanomaly

64.5640, 0.2724, 0.2832

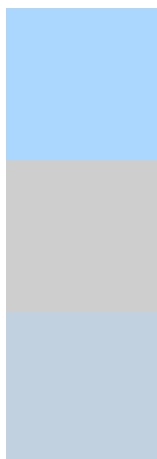
## Deuteranomaly

64.1584, 0.2724, 0.2781

## Tritanomaly

64.4216, 0.2648, 0.2986

# Monochromacy



## Original Color

64.4788, 0.2599, 0.2833

## Achromatopsia

61.7207, 0.3127, 0.3290

## Achromatomaly

62.3202, 0.2912, 0.3115

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.4788, 0.2599, 0.2833 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(171, 215, 255)` looks like.

```
.text, #text, p{  
    color:rgb(171, 215, 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(171, 215, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 215, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.4788, 0.2599, 0.2833 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(171, 215, 255) }
```

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

```
.border{ border-color:rgb(171, 215, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 215, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 215, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 215, 255);  
box-shadow:4px 4px 4px 4px rgb(171, 215,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.4788, 0.2599, 0.2833 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 215, 255) }
```

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

```
.background{ background-color: rgb(171,  
215, 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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