

# Converting Colors

$Y_{xy}(48.1556, 0.2516, 0.2412)$

Have a look what the booklet for  
Yxy(48.1556, 0.2516, 0.2412)  
contains.

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# Color

**Yxy(47.9695, 0.2514, 0.2407)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6B4FF
RGB	166, 180, 255
RGB Percent	65%, 71%, 100%
CMY	0.3489, 0.2941, 0.0000
CMYK	0.35, 0.29, 0.00, 0.00
HSL	231°, 100%, 83%
HSV	231°, 35%, 100%
XYZ	50.1019, 47.9695, 101.2202
YIQ	184.3640, -32.4190, 20.3570

# Conversions

## Conversions Part 2

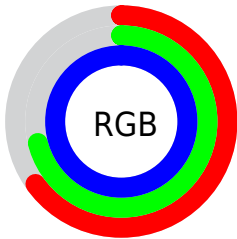
Format	Color
R <sub>Y</sub> B	166, 178, 255
Decimal	10925311
CIE Lab	74.81, 12.50, -38.63
CIE LCh	75, 40.603, 287.926
Yxy	47.9695, 0.2514, 0.2407
Android (android.graphics.Color)	4289115391 (0xFFA6B4FF)
YUV	184.3640, 34.8235, -16.1052
Hunter-Lab	69.2600, 7.9199, -38.1675

# Details

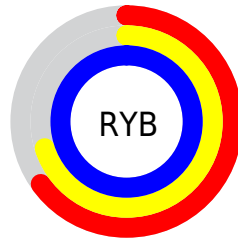
The Yxy color **47.9695, 0.2514, 0.2407** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **86.9477, 0.3698, 0.4040**, and the grayscale version is **47.9659, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8989, 0.2930, 0.3095**, and **22.6355, 0.2352, 0.2187** is the 20% darker color. If you saturate the color by 10%, you get **37.4652, 0.2313, 0.2100**, and if you desaturate by 10%, it is **60.3701, 0.2707, 0.2694**.

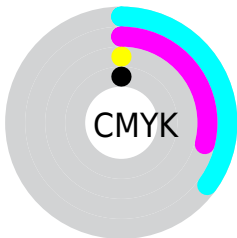
# Distribution



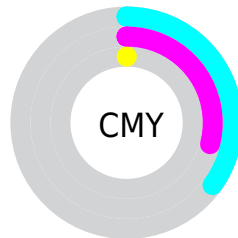
- Red (65%)
- Green (71%)
- Blue (100%)



- Red (65%)
- Yellow (70%)
- Blue (100%)



- Cyan (35%)
- Magenta (29%)
- Yellow (0%)
- Black (0%)



- Cyan (35%)
- Magenta (29%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.9695, 0.2514, 0.2407 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 47.9695, 0.2514, 0.2407 by changing the saturation by 10% instead.



■ 47.9695, 0.2514,  
0.2407

■ 47.9695, 0.2514,  
0.2407

378.6712, 0.2814,  
0.2823

■ 33.8027, 0.2443,  
0.2312

■ 87.1590, 0.2621,  
0.2552

■ 22.7421, 0.2353,  
0.2195

■ 112.9505, 0.2661,  
0.2608

■ 14.4032, 0.2238,  
0.2048

143.3857, 0.2696,  
0.2656

■ 8.4016, 0.2086,  
0.1858

178.8490, 0.2726,  
0.2698

■ 4.3530, 0.1879,  
0.1609

219.7249, 0.2752,  
0.2735

■ 1.8729, 0.1584,  
0.1273

266.3976, 0.2775,

■ 0.5320, 0.1163,

0.2768

0.0763

319.2516, 0.2796,  
0.2797

0.0000, 0.0000,  
0.0000

47.9695, 0.2514,  
0.2407

47.9695, 0.2514,  
0.2407

37.4652, 0.2313,  
0.2100

60.3701, 0.2707,  
0.2694

28.7575, 0.2114,  
0.1784

74.7491, 0.2888,  
0.2955

21.7455, 0.1927,  
0.1475

91.1905, 0.3053,  
0.3187

16.3160, 0.1765,  
0.1191

99.9996, 0.3127,  
0.3290

12.3415, 0.1639,  
0.0954

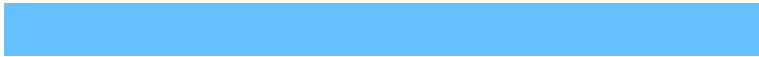
■ 9.6731, 0.1558,  
0.0777

■ 8.7373, 0.1531,  
0.0711

# Harmonies

## Analogous

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



47.9695, 0.2206, 0.2478



47.9695, 0.2514, 0.2407



47.9695, 0.3007, 0.2533

# Triad

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



47.9695, 0.2514, 0.2407



47.9695, 0.4250, 0.3655



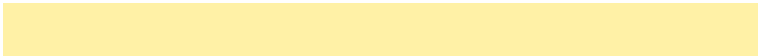
47.9695, 0.2641, 0.3830

# Complementary

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



47.9695, 0.2514, 0.2407



86.9477, 0.3698, 0.4040

# 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.



47.9695, 0.3165, 0.4235



47.9695, 0.2514, 0.2407



47.9695, 0.4110, 0.4054

# Square

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



47.9695, 0.2514, 0.2407



47.9695, 0.4055, 0.3217



47.9695, 0.3705, 0.4296



47.9695, 0.2269, 0.3261



# Rectangle

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



47.9695, 0.2514, 0.2407



47.9695, 0.3391, 0.2709



47.9695, 0.3705, 0.4296



47.9695, 0.2805, 0.3996

# Sweetspot

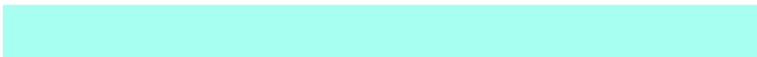
The Sweet Spot groups the original color and five complimentary colors.



47.9713, 0.2514, 0.2407



82.5218, 0.2970, 0.3072



85.9288, 0.2703, 0.3454



17.1737, 0.2947, 0.3039



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.



47.9713, 0.2514, 0.2407



40.3090, 0.2372, 0.2190



46.2012, 0.2702, 0.2296



17.8377, 0.2979, 0.3083



4.7012, 0.1536, 0.0730



0.5844, 0.1584, 0.0901



# Inverse Universe

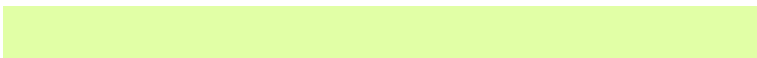
The Inverse Universe completely reimagines the original color for something new.



51.8411, 0.3830, 0.3145



45.1142, 0.4046, 0.3116



90.3336, 0.3452, 0.4226



18.0335, 0.3270, 0.3253



11.2026, 0.6183, 0.3180



1.1035, 0.5909, 0.3029



# Previews

## White Background



This preview shows how the Yxy color 47.9695, 0.2514, 0.2407 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

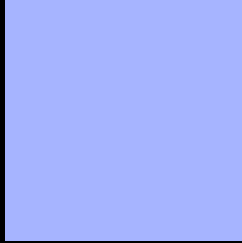
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.9695, 0.2514, 0.2407 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 47.9695, 0.2514, 0.2407**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.9695, 0.2514, 0.2407.



This preview shows how white text looks on a background with the Yxy color 47.9695, 0.2514, 0.2407.

# 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

47.9695, 0.2514, 0.2407

### Protanopia

47.9491, 0.2490, 0.2413

### Deuteranopia

48.2530, 0.2486, 0.2424



## Tritanopia

48.2033, 0.2754, 0.3091

# Trichromacy



## Original Color

47.9695, 0.2514, 0.2407

## Protanomaly

48.0543, 0.2496, 0.2415

## Deuteranomaly

48.0543, 0.2496, 0.2415

## Tritanomaly

47.8165, 0.2663, 0.2818

# Monochromacy



## Original Color

47.9695, 0.2514, 0.2407

## Achromatopsia

47.9320, 0.3127, 0.3290

## Achromatomaly

47.8672, 0.2877, 0.2949

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.9695, 0.2514, 0.2407 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(166, 180, 255)` looks like.

```
.text, #text, p{  
    color:rgb(166, 180, 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(166, 180, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 180, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 47.9695, 0.2514, 0.2407 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(166, 180, 255) }
```

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

```
.border{ border-color:rgb(166, 180, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 180, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 180, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 180, 255);  
box-shadow:4px 4px 4px 4px rgb(166, 180,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.9695, 0.2514, 0.2407 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 180, 255) }
```

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

```
.background{ background-color: rgb(166,  
180, 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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