

# Converting Colors

$Y_{xy}(47.3880, 0.2572, 0.2372)$

Have a look what the booklet for  
Yxy(47.3880, 0.2572, 0.2372)  
contains.

<b>Yxy(47.5008, 0.2573, 0.2375)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(47.5008, 0.2573, 0.2375)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0B0FF
RGB	176, 176, 255
RGB Percent	69%, 69%, 100%
CMY	0.3102, 0.3097, 0.0001
CMYK	0.31, 0.31, 0.00, 0.00
HSL	240°, 100%, 84%
HSV	240°, 31%, 100%
XYZ	51.4609, 47.5008, 101.0417
YIQ	185.0060, -25.3590, 24.5690

# Conversions

## Conversions Part 2

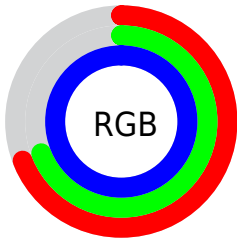
Format	Color
R <sub>Y</sub> B	176, 176, 255
Decimal	11579647
CIE Lab	74.51, 17.40, -39.03
CIE LCh	75, 42.730, 294.023
Yxy	47.5008, 0.2573, 0.2375
Android (android.graphics.Color)	4289769727 (0xFFB0B0FF)
YUV	185.0060, 34.5070, -7.8983
Hunter-Lab	68.9208, 12.6685, -38.6778

# Details

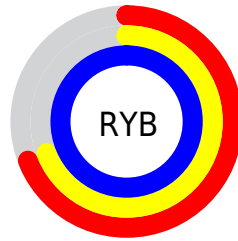
The Yxy color **47.5008, 0.2573, 0.2375** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **95.8105, 0.3598, 0.4066**, and the grayscale version is **48.3288, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.2569, 0.2993, 0.3058**, and **22.5575, 0.2425, 0.2163** is the 20% darker color. If you saturate the color by 10%, you get **35.7394, 0.2360, 0.2022**, and if you desaturate by 10%, it is **61.6959, 0.2773, 0.2705**.

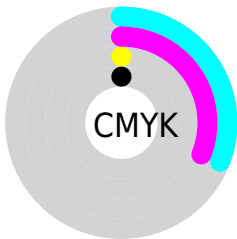
# Distribution



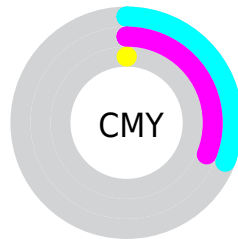
- Red (69%)
- Green (69%)
- Blue (100%)



- Red (69%)
- Yellow (69%)
- Blue (100%)



- Cyan (31%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)




- Cyan (31%)
- Magenta (31%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.5008, 0.2573, 0.2375 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 47.5008, 0.2573, 0.2375 by changing the saturation by 10% instead.





 47.5008, 0.2573,  
0.2375

 47.5008, 0.2573,  
0.2375


376.8100, 0.2847,  
0.2803

 33.4317, 0.2507,  
0.2278


 86.4607, 0.2671,  
0.2523

 22.4574, 0.2424,  
0.2158


112.1203, 0.2708,  
0.2581

 14.1934, 0.2317,  
0.2009


142.4122, 0.2740,  
0.2631

 8.2553, 0.2175,  
0.1817

177.7208, 0.2767,  
0.2674

 4.2587, 0.1978,  
0.1565

218.4305, 0.2791,  
0.2712

 1.8193, 0.1696,  
0.1229

264.9256, 0.2812,

 0.4992, 0.1286,

0.2746

0.0713

317.5907, 0.2830,  
0.2776

0.0000, 0.0000,  
0.0000

47.5008, 0.2573,  
0.2375

47.5008, 0.2573,  
0.2375

35.7394, 0.2360,  
0.2022

61.6959, 0.2773,  
0.2705

26.2699, 0.2142,  
0.1663

78.4447, 0.2953,  
0.3003

18.9446, 0.1935,  
0.1320

97.8660, 0.3112,  
0.3265

13.5962, 0.1755,  
0.1023

99.9984, 0.3127,  
0.3290

10.0328, 0.1619,  
0.0797

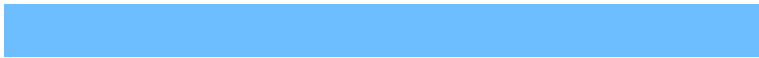
■ 8.0241, 0.1535,  
0.0658

■ 7.2271, 0.1500,  
0.0601

# Harmonies

## Analogous

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



47.5008, 0.2207, 0.2403



47.5008, 0.2573, 0.2375



47.5008, 0.3121, 0.2545

# Triad

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



47.5008, 0.2573, 0.2375



47.5008, 0.4309, 0.3760



47.5008, 0.2518, 0.3744

# Complementary

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



47.5008, 0.2573, 0.2375



95.8105, 0.3598, 0.4066

# 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.



47.5008, 0.3045, 0.4232



47.5008, 0.2573, 0.2375



47.5008, 0.4092, 0.4162

# Square

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



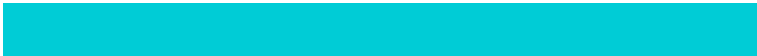
47.5008, 0.2573, 0.2375



47.5008, 0.4177, 0.3301



47.5008, 0.3623, 0.4371



47.5008, 0.2173, 0.3137



# Rectangle

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



47.5008, 0.2573, 0.2375



47.5008, 0.3528, 0.2749



47.5008, 0.3623, 0.4371



47.5008, 0.2678, 0.3935

# Sweetspot

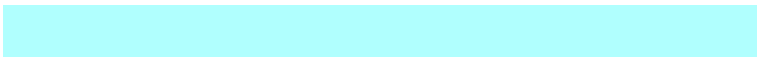
The Sweet Spot groups the original color and five complimentary colors.



47.5026, 0.2573, 0.2375



82.1459, 0.2987, 0.3058



87.8573, 0.2687, 0.3303



17.0092, 0.2962, 0.3018



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.



47.5026, 0.2573, 0.2375



40.1802, 0.2446, 0.2166



52.5490, 0.2847, 0.2440



17.3824, 0.2978, 0.3044



3.7792, 0.1500, 0.0601



0.3695, 0.1501, 0.0603



# Inverse Universe

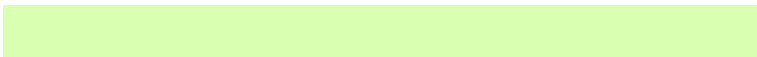
The Inverse Universe completely reimagines the original color for something new.



55.4069, 0.3836, 0.3291



49.1937, 0.4037, 0.3291



89.3498, 0.3340, 0.4138



17.9876, 0.3294, 0.3290



11.1095, 0.6399, 0.3299

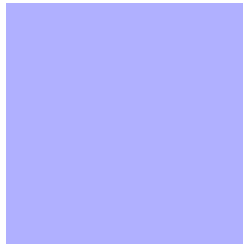


1.0818, 0.6395, 0.3297



# Previews

## White Background



This preview shows how the Yxy color 47.5008, 0.2573, 0.2375 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

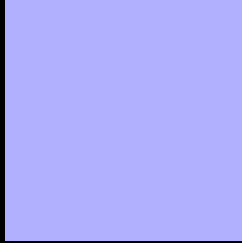
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.5008, 0.2573, 0.2375 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

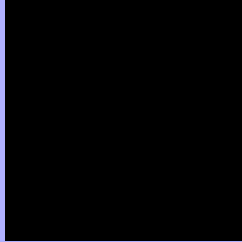
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.5008, 0.2573, 0.2375**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.5008, 0.2573, 0.2375.



This preview shows how white text looks on a background with the Yxy color 47.5008, 0.2573, 0.2375.

# 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

47.5008, 0.2573, 0.2375

### Protanopia

47.7413, 0.2478, 0.2411

### Deuteranopia

47.6771, 0.2483, 0.2420



## Tritanopia

47.3342, 0.2850, 0.3093

# Trichromacy



## Original Color

47.5008, 0.2573, 0.2375

## Protanomaly

47.5672, 0.2512, 0.2395

## Deuteranomaly

47.5029, 0.2518, 0.2405

## Tritanomaly

47.1114, 0.2741, 0.2799

# Monochromacy



## Original Color

47.5008, 0.2573, 0.2375

## Achromatopsia

48.5150, 0.3127, 0.3290

## Achromatomaly

48.0541, 0.2916, 0.2940

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.5008, 0.2573, 0.2375 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(176, 176, 255)` looks like.

```
.text, #text, p{  
    color:rgb(176, 176, 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(176, 176, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 176, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 47.5008, 0.2573, 0.2375 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(176, 176, 255) }
```

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

```
.border{ border-color:rgb(176, 176, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 176, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 176, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 176, 255);  
box-shadow:4px 4px 4px 4px rgb(176, 176,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.5008, 0.2573, 0.2375 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 176, 255) }
```

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

```
.background{ background-color: rgb(176,  
176, 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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