

# Converting Colors

$Y_{xy}(77.0123, 0.2546, 0.1702)$

Have a look what the booklet for  
Yxy(77.0123, 0.2546, 0.1702)  
contains.

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**Color**

**Yxy(59.5307, 0.3163, 0.2517)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB0FF
RGB	255, 176, 255
RGB Percent	100%, 69%, 100%
CMY	0.0001, 0.3097, 0.0000
CMYK	0.00, 0.31, 0.00, 0.00
HSL	300°, 100%, 85%
HSV	300°, 31%, 100%
XYZ	74.8095, 59.5307, 102.1743
YIQ	208.6270, 21.7250, 41.3170

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 176, 255
Decimal	16756991
CIE <sub>Lab</sub>	81.58, 41.03, -27.56
CIE <sub>LCh</sub>	82, 49.429, 326.113
Yxy	59.5307, 0.3163, 0.2517
Android (android.graphics.Color)	4294947071 (0xFFFFB0FF)
YUV	208.6270, 22.8619, 40.6691
Hunter-Lab	77.1561, 38.0479, -24.5057

# Details

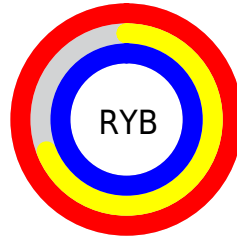
The Yxy color **59.5307, 0.3163, 0.2517** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **83.8909, 0.3084, 0.4206**, and the grayscale version is **63.3428, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.7578, 0.3137, 0.3078**, and **29.8666, 0.3161, 0.2350** is the 20% darker color. If you saturate the color by 10%, you get **50.4507, 0.3174, 0.2279**, and if you desaturate by 10%, it is **70.4911, 0.3152, 0.2767**.

# Distribution



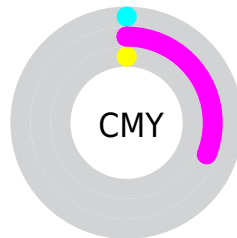
- Red (100%)
- Green (69%)
- Blue (100%)



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



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.5307, 0.3163, 0.2517 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 59.5307, 0.3163, 0.2517 by changing the saturation by 10% instead.





 59.5307, 0.3163,  
0.2517

 59.5307, 0.3163,  
0.2517


422.8658, 0.3156,  
0.2862

 43.0405, 0.3163,  
0.2442


 104.1486, 0.3162,  
0.2634

 29.9169, 0.3161,  
0.2350


133.0450, 0.3161,  
0.2680

 19.7755, 0.3157,  
0.2237

166.8457, 0.3160,  
0.2720

 12.2320, 0.3150,  
0.2094

205.9349, 0.3159,  
0.2756

 6.9019, 0.3136,  
0.1909

250.6972, 0.3158,  
0.2787

 3.4008, 0.3106,  
0.1660

301.5168, 0.3157,

 1.3444, 0.3042,

0.2815

0.1315

358.7782, 0.3157,  
0.2839

0.1752, 0.3011,  
0.0435

0.0000, 0.1128,  
0.0000

59.5307, 0.3163,  
0.2517

59.5307, 0.3163,  
0.2517

50.4507, 0.3174,  
0.2279

70.4911, 0.3152,  
0.2767

43.1423, 0.3184,  
0.2063

83.4257, 0.3140,  
0.3019

37.4908, 0.3193,  
0.1877

98.4261, 0.3128,  
0.3266

33.3668, 0.3200,  
0.1730

100.0000, 0.3127,  
0.3290

■ 30.6215, 0.3204,  
0.1626

■ 29.0767, 0.3207,  
0.1566

■ 28.4615, 0.3208,  
0.1541

# Harmonies

## Analogous

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



59.5307, 0.2569, 0.2324



59.5307, 0.3163, 0.2517



59.5307, 0.3808, 0.2873

# Triad

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



59.5307, 0.3163, 0.2517



59.5307, 0.4128, 0.4241



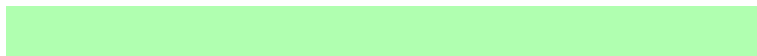
59.5307, 0.2094, 0.3078

# Complementary

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



59.5307, 0.3163, 0.2517



83.8909, 0.3084, 0.4206

# 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.



59.5307, 0.2441, 0.3733



59.5307, 0.3163, 0.2517



59.5307, 0.3610, 0.4454

# Square

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



59.5307, 0.3163, 0.2517



59.5307, 0.4388, 0.3816



59.5307, 0.2991, 0.4282



59.5307, 0.2004, 0.2583



# Rectangle

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



59.5307, 0.3163, 0.2517



59.5307, 0.4154, 0.3171



59.5307, 0.2991, 0.4282



59.5307, 0.2182, 0.3288

# Sweetspot

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



59.5318, 0.3163, 0.2517



86.2197, 0.3137, 0.3069



48.0285, 0.2575, 0.2390



18.0120, 0.3139, 0.3032



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.



59.5318, 0.3163, 0.2517



53.8407, 0.3170, 0.2372



57.3182, 0.3472, 0.2873



18.3000, 0.3138, 0.3056



14.8719, 0.3208, 0.1541



1.4481, 0.3208, 0.1541



# Inverse Universe

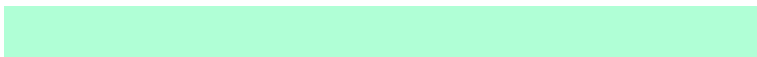
The Inverse Universe completely reimagines the original color for something new.



55.4540, 0.3835, 0.3292



49.1897, 0.4038, 0.3292



85.6170, 0.2884, 0.3751



17.9872, 0.3295, 0.3290



11.1090, 0.6400, 0.3299



1.0817, 0.6399, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 59.5307, 0.3163, 0.2517 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

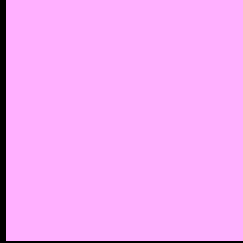
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 59.5307, 0.3163, 0.2517 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 59.5307, 0.3163, 0.2517**

## Background



This preview shows how black text looks on a background with the Yxy color 59.5307, 0.3163, 0.2517.



This preview shows how white text looks on a background with the Yxy color 59.5307, 0.3163, 0.2517.

# 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

59.5307, 0.3163, 0.2517

### Protanopia

59.8121, 0.2690, 0.2685

### Deuteranopia

59.9540, 0.2778, 0.2714



## Tritanopia

59.7142, 0.3528, 0.3143

# Trichromacy



## Original Color

59.5307, 0.3163, 0.2517



## Protanomaly

59.0654, 0.2847, 0.2613



## Deuteranomaly

59.3499, 0.2909, 0.2639



## Tritanomaly

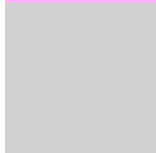
59.5967, 0.3393, 0.2899

# Monochromacy



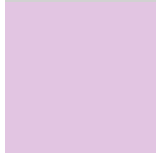
## Original Color

59.5307, 0.3163, 0.2517



## Achromatopsia

63.7597, 0.3127, 0.3290



## Achromatomaly

61.5922, 0.3142, 0.2975

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 59.5307, 0.3163, 0.2517 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(255, 176, 255)` looks like.

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

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

## Border

The CSS property to change the border of an element to Yxy 59.5307, 0.3163, 0.2517 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(255, 176, 255) }
```

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

```
.border{ border-color:rgb(255, 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(255, 176, 255) colored shadow looks like.

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



# Background

The CSS property to change the background color of an element to Yxy 59.5307, 0.3163, 0.2517 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(255,  
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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