

# Converting Colors

$Y_{xy}(91.4700, 0.3378, 0.2188)$

Have a look what the booklet for  
Yxy(91.4700, 0.3378, 0.2188)  
contains.

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# Color

**Yxy(58.7521, 0.3164, 0.2498)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFAEFF
RGB	255, 174, 255
RGB Percent	100%, 68%, 100%
CMY	0.0001, 0.3176, 0.0000
CMYK	0.00, 0.32, 0.00, 0.00
HSL	300°, 100%, 84%
HSV	300°, 32%, 100%
XYZ	74.4162, 58.7521, 102.0283
YIQ	207.4530, 22.2750, 42.3630

# Conversions

## Conversions Part 2

Format	Color
R <sub>Y</sub> B	255, 174, 255
Decimal	16756479
CIE Lab	81.16, 42.06, -28.20
CIE LCh	81, 50.643, 326.159
Yxy	58.7521, 0.3164, 0.2498
Android (android.graphics.Color)	4294946559 (0xFFFFAEFF)
YUV	207.4530, 23.4407, 41.6987
Hunter-Lab	76.6499, 39.1608, -25.2656

# Details

The Yxy color **58.7521, 0.3164, 0.2498** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **83.5824, 0.3083, 0.4233**, and the grayscale version is **62.5406, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.0736, 0.3138, 0.3048**, and **29.3805, 0.3162, 0.2326** is the 20% darker color. If you saturate the color by 10%, you get **49.8155, 0.3175, 0.2261**, and if you desaturate by 10%, it is **69.5636, 0.3152, 0.2747**.

# Distribution



- Red (100%)
- Green (68%)
- Blue (100%)



- Red (100%)
- Yellow (68%)
- Blue (100%)



- Cyan (0%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (32%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.7521, 0.3164, 0.2498 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 58.7521, 0.3164, 0.2498 by changing the saturation by 10% instead.




 58.7521, 0.3164,  
0.2498

 58.7521, 0.3164,  
0.2498


419.9826, 0.3157,  
0.2851

 42.4136, 0.3163,  
0.2421


 103.0173, 0.3163,  
0.2618

 29.4253, 0.3162,  
0.2327


131.7127, 0.3162,  
0.2665

 19.4028, 0.3158,  
0.2211


165.2960, 0.3162,  
0.2706

 11.9617, 0.3150,  
0.2065

204.1514, 0.3161,  
0.2743

 6.7176, 0.3134,  
0.1876

248.6634, 0.3160,  
0.2775

 3.2861, 0.3103,  
0.1622


299.2163, 0.3159,


 1.2829, 0.3035,


0.2803


0.1271


356.1946, 0.3158,  
0.2828


 0.1279, 0.3013,  
0.0325


 0.0000, 0.0960,  
0.0000

 58.7521, 0.3164,  
0.2498


 58.7521, 0.3164,  
0.2498


 49.8155, 0.3175,  
0.2261


 69.5636, 0.3152,  
0.2747

 42.6407, 0.3185,  
0.2047

 82.3407, 0.3141,  
0.3000

 37.1133, 0.3193,  
0.1864

 97.1767, 0.3129,  
0.3247

 33.1025, 0.3200,  
0.1720

100.0000, 0.3127,  
0.3290

■ 30.4577, 0.3205,  
0.1620

■ 28.9976, 0.3207,  
0.1562

■ 28.4586, 0.3208,  
0.1541

# Harmonies

## Analogous

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



58.7521, 0.2554, 0.2300



58.7521, 0.3164, 0.2498



58.7521, 0.3829, 0.2862

# Triad

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



58.7521, 0.3164, 0.2498



58.7521, 0.4153, 0.4265



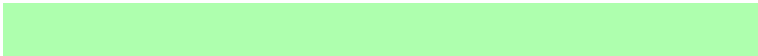
58.7521, 0.2067, 0.3069

# Complementary

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



58.7521, 0.3164, 0.2498



83.5824, 0.3083, 0.4233

# 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.



58.7521, 0.2420, 0.3745



58.7521, 0.3164, 0.2498



58.7521, 0.3620, 0.4489

# Square

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



58.7521, 0.3164, 0.2498



58.7521, 0.4423, 0.3827



58.7521, 0.2985, 0.4314



58.7521, 0.1975, 0.2562



# Rectangle

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



58.7521, 0.3164, 0.2498



58.7521, 0.4185, 0.3166



58.7521, 0.2985, 0.4314



58.7521, 0.2156, 0.3285

# Sweetspot

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



58.7544, 0.3164, 0.2498



84.7936, 0.3139, 0.3044



47.0268, 0.2559, 0.2364



17.7279, 0.3140, 0.3008



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.



58.7544, 0.3164, 0.2498



52.9597, 0.3171, 0.2348



56.4919, 0.3483, 0.2862



18.3000, 0.3138, 0.3056



14.8704, 0.3208, 0.1541



1.4480, 0.3208, 0.1541



# Inverse Universe

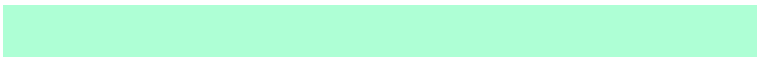
The Inverse Universe completely reimagines the original color for something new.



54.5995, 0.3860, 0.3292



48.2214, 0.4074, 0.3292



85.3337, 0.2879, 0.3765



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 58.7521, 0.3164, 0.2498 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

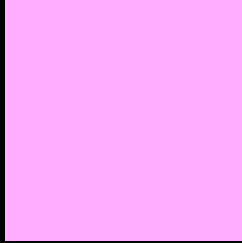
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.7521, 0.3164, 0.2498 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

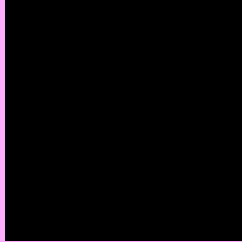
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 58.7521, 0.3164, 0.2498**

## Background



This preview shows how black text looks on a background with the Yxy color 58.7521, 0.3164, 0.2498.

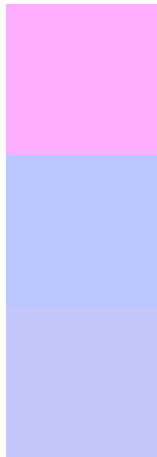


This preview shows how white text looks on a background with the Yxy color 58.7521, 0.3164, 0.2498.

# 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

58.7521, 0.3164, 0.2498

### Protanopia

59.0933, 0.2676, 0.2672

### Deuteranopia

59.2235, 0.2764, 0.2700



## Tritanopia

58.5956, 0.3540, 0.3142

# Trichromacy



## Original Color

58.7521, 0.3164, 0.2498



## Protanomaly

58.4787, 0.2839, 0.2601



## Deuteranomaly

58.3289, 0.2901, 0.2616



## Tritanomaly

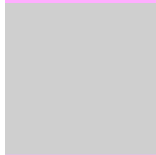
58.4862, 0.3404, 0.2897

# Monochromacy



## Original Color

58.7521, 0.3164, 0.2498



## Achromatopsia

62.3960, 0.3127, 0.3290



## Achromatomaly

60.2593, 0.3142, 0.2972

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.7521, 0.3164, 0.2498 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, 174, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 174, 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, 174, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 174, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 58.7521, 0.3164, 0.2498 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, 174, 255) }
```

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

```
.border{ border-color:rgb(255, 174, 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, 174, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 174, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 174, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 174,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.7521, 0.3164, 0.2498 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 174, 255) }
```

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

```
.background{ background-color: rgb(255,  
174, 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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