

# Converting Colors

$Y_{xy}(46.8380, 0.3325, 0.2089)$

Have a look what the booklet for  
Yxy(46.8380, 0.3325, 0.2089)  
contains.

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# Color

**Yxy(42.6459, 0.3185, 0.2047)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7BFF
RGB	255, 123, 255
RGB Percent	100%, 48%, 100%
CMY	0.0002, 0.5174, 0.0000
CMYK	0.00, 0.52, 0.00, 0.00
HSL	300°, 100%, 74%
HSV	300°, 52%, 100%
XYZ	66.3543, 42.6459, 99.3335
YIQ	177.5160, 36.3000, 69.0360

# Conversions

## Conversions Part 2

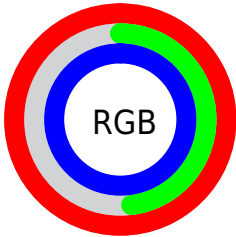
Format	Color
R <sub>Y</sub> B	255, 123, 255
Decimal	16743423
CIE <sub>Lab</sub>	71.31, 67.20, -43.43
CIE <sub>LCh</sub>	71, 80.014, 327.125
Yxy	42.6459, 0.3185, 0.2047
Android (android.graphics.Color)	4294933503 (0xFFFF7BFF)
YUV	177.5160, 38.1996, 67.9535
Hunter-Lab	65.3038, 67.0896, -44.4732

# Details

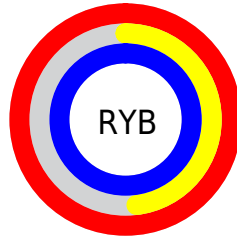
The Yxy color **42.6459, 0.3185, 0.2047** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **77.1646, 0.3049, 0.4952**, and the grayscale version is **44.0399, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1225, 0.3162, 0.2556**, and **19.5936, 0.3173, 0.1784** is the 20% darker color. If you saturate the color by 10%, you get **37.1187, 0.3193, 0.1864**, and if you desaturate by 10%, it is **49.8244, 0.3175, 0.2262**.

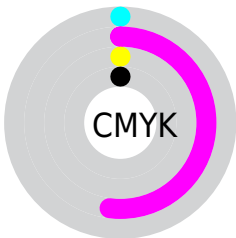
# Distribution



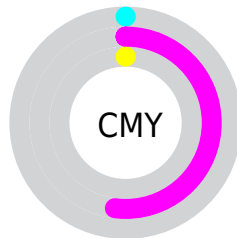
- Red (100%)
- Green (48%)
- Blue (100%)



- Red (100%)
- Yellow (48%)
- Blue (100%)



- Cyan (0%)
- Magenta (52%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (52%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.6459, 0.3185, 0.2047 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 42.6459, 0.3185, 0.2047 by changing the saturation by 10% instead.




 42.6459, 0.3185,  
0.2047

 42.6459, 0.3185,  
0.2047


357.1535, 0.3182,  
0.2600


 29.6074, 0.3180,  
0.1928


 79.1762, 0.3189,  
0.2233

 19.5408, 0.3170,  
0.1785


 103.4368, 0.3189,  
0.2308

 12.0617, 0.3153,  
0.1612


 132.2069, 0.3189,  
0.2372

 6.7857, 0.3123,  
0.1398

165.8709, 0.3188,  
0.2429

 3.3284, 0.3069,  
0.1133

204.8132, 0.3186,  
0.2479

 1.3055, 0.2967,  
0.0805

249.4181, 0.3185,

 0.1455, 0.2828,

0.2524

0.0190

300.0701, 0.3184,  
0.2564

■ 0.0000, 0.2327,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.6459, 0.3185,  
0.2047

■ 42.6459, 0.3185,  
0.2047

■ 37.1187, 0.3193,  
0.1864

■ 49.8244, 0.3175,  
0.2262

■ 33.1062, 0.3200,  
0.1720

■ 58.7651, 0.3164,  
0.2498

■ 30.4599, 0.3205,  
0.1620

■ 69.5760, 0.3152,  
0.2748

■ 28.9985, 0.3207,  
0.1563

■ 82.3548, 0.3141,  
0.3000

■ 28.4583, 0.3208,  
0.1541

■ 97.1926, 0.3129,  
0.3248

99.9992, 0.3127,  
0.3290

99.9994, 0.3127,  
0.3290

# Harmonies

## Analogous

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



42.6459, 0.2188, 0.1744



42.6459, 0.3185, 0.2047



42.6459, 0.4374, 0.2583

# Triad

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



42.6459, 0.3185, 0.2047



42.6459, 0.4687, 0.4776



42.6459, 0.1409, 0.2782

# Complementary

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



42.6459, 0.3185, 0.2047



77.1646, 0.3049, 0.4952

# 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.



42.6459, 0.1882, 0.4051



42.6459, 0.3185, 0.2047



42.6459, 0.3765, 0.5378

# Square

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



42.6459, 0.3185, 0.2047



42.6459, 0.5268, 0.3994



42.6459, 0.2745, 0.5211



42.6459, 0.1328, 0.2019



# Rectangle

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



42.6459, 0.3185, 0.2047



42.6459, 0.5003, 0.3022



42.6459, 0.2745, 0.5211



42.6459, 0.1519, 0.3159

# Sweetspot

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



42.6478, 0.3185, 0.2047



76.6713, 0.3146, 0.2893



26.1668, 0.2131, 0.1660



15.8504, 0.3148, 0.2841



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.



42.6478, 0.3185, 0.2047



36.9990, 0.3194, 0.1860



39.2098, 0.3827, 0.2598



18.3000, 0.3138, 0.3056



14.8715, 0.3208, 0.1541



1.4481, 0.3208, 0.1541



# Inverse Universe

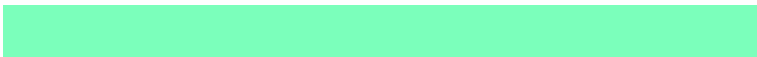
The Inverse Universe completely reimagines the original color for something new.



36.8712, 0.4637, 0.3294



30.6533, 0.5124, 0.3295



79.3096, 0.2760, 0.4139



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 42.6459, 0.3185, 0.2047 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

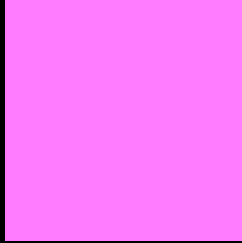
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.6459, 0.3185, 0.2047 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

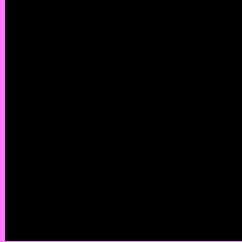
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.6459, 0.3185, 0.2047**

## Background



This preview shows how black text looks on a background with the Yxy color 42.6459, 0.3185, 0.2047.



This preview shows how white text looks on a background with the Yxy color 42.6459, 0.3185, 0.2047.

# 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

42.6459, 0.3185, 0.2047

### Protanopia

42.8360, 0.2375, 0.2278

### Deuteranopia

42.9305, 0.2442, 0.2384



## Tritanopia

42.3907, 0.4008, 0.3171

# Trichromacy



## Original Color

42.6459, 0.3185, 0.2047



## Protanomaly

40.7703, 0.2617, 0.2140



## Deuteranomaly

40.9736, 0.2672, 0.2209



## Tritanomaly

41.8014, 0.3697, 0.2708

# Monochromacy



## Original Color

42.6459, 0.3185, 0.2047



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

42.0318, 0.3154, 0.2715

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.6459, 0.3185, 0.2047 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, 123, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 123, 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, 123, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 123, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.6459, 0.3185, 0.2047 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, 123, 255) }
```

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

```
.border{ border-color:rgb(255, 123, 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, 123, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 123, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 123, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 123,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.6459, 0.3185, 0.2047 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 123, 255) }
```

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

```
.background{ background-color: rgb(255,  
123, 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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