

# Converting Colors

$Y_{xy}(38.5152, 0.3192, 0.1912)$

Have a look what the booklet for  
Yxy(38.5152, 0.3192, 0.1912)  
contains.

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**Color**

**Yxy(38.5832, 0.3192, 0.1914)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF69FF
RGB	255, 105, 255
RGB Percent	100%, 41%, 100%
CMY	0.0000, 0.5883, 0.0000
CMYK	0.00, 0.59, 0.00, 0.00
HSL	300°, 100%, 71%
HSV	300°, 59%, 100%
XYZ	64.3457, 38.5832, 98.6553
YIQ	166.9500, 41.2500, 78.4500

# Conversions

## Conversions Part 2

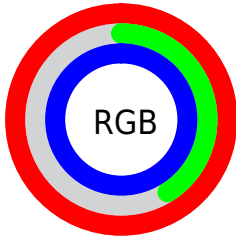
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 105, 255
Decimal	16738815
CIE Lab	68.45, 75.03, -47.93
CIE LCh	68, 89.034, 327.429
Yxy	38.5832, 0.3192, 0.1914
Android (android.graphics.Color)	4294928895 (0xFFFF69FF)
YUV	166.9500, 43.4087, 77.2199
Hunter-Lab	62.1154, 76.2072, -50.6871

# Details

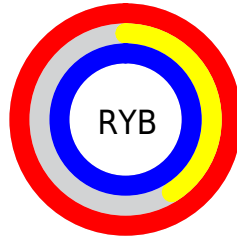
The Yxy color **38.5832, 0.3192, 0.1914** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **75.5427, 0.3038, 0.5199**, and the grayscale version is **38.3844, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.0309, 0.3169, 0.2403**, and **17.1969, 0.3167, 0.1628** is the 20% darker color. If you saturate the color by 10%, you get **34.1425, 0.3199, 0.1758**, and if you desaturate by 10%, it is **44.5760, 0.3183, 0.2107**.

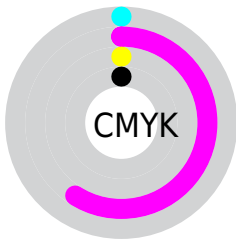
# Distribution



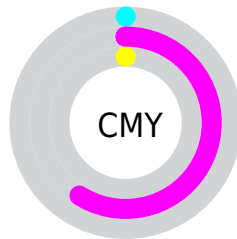
- Red (100%)
- Green (41%)
- Blue (100%)



- Red (100%)
- Yellow (41%)
- Blue (100%)



- Cyan (0%)
- Magenta (59%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (59%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.5832, 0.3192, 0.1914 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 38.5832, 0.3192, 0.1914 by changing the saturation by 10% instead.




 38.5832, 0.3192,  
0.1914


 38.5832, 0.3192,  
0.1914


340.1152, 0.3192,  
0.2525


 26.4356, 0.3185,  
0.1784


 73.0012, 0.3198,  
0.2119

 17.1498, 0.3171,  
0.1629


 96.0403, 0.3199,  
0.2201

 10.3414, 0.3149,  
0.1441


 123.4789, 0.3198,  
0.2272

 5.6259, 0.3110,  
0.1214

155.7011, 0.3198,  
0.2335

 2.6190, 0.3040,  
0.0938

193.0914, 0.3196,  
0.2390

 0.9362, 0.2909,  
0.0610

236.0343, 0.3195,

 0.0000, 0.2723,

0.2440

0.0000

284.9141, 0.3193,  
0.2484

0.0000, 0.2085,  
0.0000

0.0000, 0.0000,  
0.0000

38.5832, 0.3192,  
0.1914

38.5832, 0.3192,  
0.1914

34.1425, 0.3199,  
0.1758

44.5760, 0.3183,  
0.2107

31.1168, 0.3204,  
0.1645


52.2539, 0.3172,  
0.2329


29.3331, 0.3208,  
0.1576

61.7279, 0.3161,  
0.2570

28.5439, 0.3209,  
0.1544

73.1016, 0.3149,  
0.2821

 28.4790, 0.3209,  
0.1542

 86.4705, 0.3137,  
0.3073

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



38.5832, 0.2076, 0.1585



38.5832, 0.3192, 0.1914



38.5832, 0.4564, 0.2492

# Triad

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



38.5832, 0.3192, 0.1914



38.5832, 0.4799, 0.4887



38.5832, 0.1217, 0.2668

# Complementary

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



38.5832, 0.3192, 0.1914



75.5427, 0.3038, 0.5199

# 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.



38.5832, 0.1700, 0.4146



38.5832, 0.3192, 0.1914



38.5832, 0.3756, 0.5656

# Square

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



38.5832, 0.3192, 0.1914



38.5832, 0.5507, 0.3998



38.5832, 0.2636, 0.5543



38.5832, 0.1150, 0.1848



# Rectangle

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



38.5832, 0.3192, 0.1914



38.5832, 0.5281, 0.2961



38.5832, 0.2636, 0.5543



38.5832, 0.1325, 0.3094

# Sweetspot

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



38.5809, 0.3192, 0.1914



74.1298, 0.3148, 0.2842



20.3243, 0.1978, 0.1390



15.1050, 0.3152, 0.2769



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.



38.5809, 0.3192, 0.1914



33.3702, 0.3200, 0.1730



34.6567, 0.4004, 0.2545



18.3004, 0.3138, 0.3056



14.8809, 0.3209, 0.1542



1.4489, 0.3209, 0.1542



# Inverse Universe

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



38.5809, 0.3192, 0.1914



33.3702, 0.3200, 0.1730



77.8179, 0.2719, 0.4247



18.3004, 0.3138, 0.3056



14.8809, 0.3209, 0.1542



1.4489, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 38.5832, 0.3192, 0.1914 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

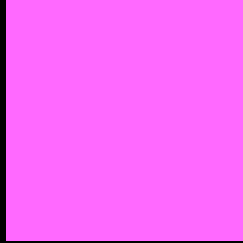
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.5832, 0.3192, 0.1914 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

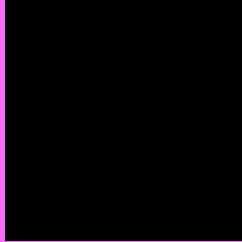
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.5832, 0.3192, 0.1914**

## Background



This preview shows how black text looks on a background with the Yxy color 38.5832, 0.3192, 0.1914.



This preview shows how white text looks on a background with the Yxy color 38.5832, 0.3192, 0.1914.

# 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

38.5832, 0.3192, 0.1914

### Protanopia

38.7575, 0.2282, 0.2157

### Deuteranopia

38.9333, 0.2341, 0.2281



## Tritanopia

38.2495, 0.4194, 0.3183

# Trichromacy



## Original Color

38.5832, 0.3192, 0.1914



## Protanomaly

36.2120, 0.2536, 0.1996



## Deuteranomaly

36.2510, 0.2583, 0.2061

## Tritanomaly

37.6922, 0.3817, 0.2648

# Monochromacy



## Original Color

38.5832, 0.3192, 0.1914



## Achromatopsia

38.6429, 0.3127, 0.3290



## Achromatomaly

36.2122, 0.3159, 0.2610

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.5832, 0.3192, 0.1914 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, 105, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 105, 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, 105, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 105, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.5832, 0.3192, 0.1914 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, 105, 255) }
```

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

```
.border{ border-color:rgb(255, 105, 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, 105, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 105, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 105, 255); box-shadow:4px 4px 4px 4px rgb(255, 105, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.5832, 0.3192, 0.1914 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 105, 255) }
```

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

```
.background{ background-color: rgb(255,  
105, 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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