

# Converting Colors

$Y_{xy}(47.2348, 0.4512, 0.2651)$

Have a look what the booklet for  
Yxy(47.2348, 0.4512, 0.2651)  
contains.

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# Color

**Yxy(33.8771, 0.3953, 0.2455)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF64B9
RGB	255, 100, 185
RGB Percent	100%, 39%, 73%
CMY	0.0001, 0.6077, 0.2745
CMYK	0.00, 0.61, 0.27, 0.00
HSL	327°, 100%, 70%
HSV	327°, 61%, 100%
XYZ	54.5483, 33.8771, 49.5668
YIQ	156.0350, 65.0950, 59.2950

# Conversions

## Conversions Part 2

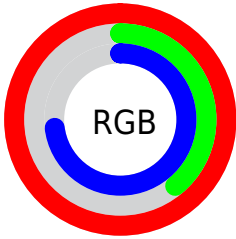
Format	Color
R <sub>Y</sub> B	255, 100, 185
Decimal	16737465
CIE Lab	64.86, 66.96, -14.43
CIE LCh	65, 68.495, 347.837
Yxy	33.8771, 0.3953, 0.2455
Android (android.graphics.Color)	4294927545 (0xFFFF64B9)
YUV	156.0350, 14.2797, 86.7923
Hunter-Lab	58.2040, 65.4317, -9.7488

# Details

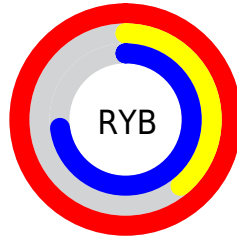
The Yxy color **33.8771, 0.3953, 0.2455** is a light color, and the websafe version is hex **FF66CC**. A complement of this color would be **77.1186, 0.2746, 0.4388**, and the grayscale version is **33.1802, 0.3127, 0.3290**.

A 20% lighter version of the original color is **52.0646, 0.3286, 0.2467**, and **14.3970, 0.4185, 0.2228** is the 20% darker color. If you saturate the color by 10%, you get **29.2608, 0.4161, 0.2373**, and if you desaturate by 10%, it is **40.0661, 0.3762, 0.2570**.

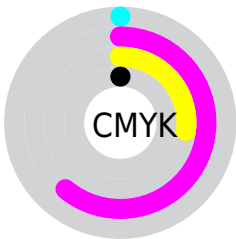
# Distribution



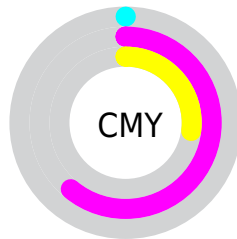
- Red (100%)
- Green (39%)
- Blue (73%)



- Red (100%)
- Yellow (39%)
- Blue (73%)



- Cyan (0%)
- Magenta (61%)
- Yellow (27%)
- Black (0%)




- Cyan (0%)
- Magenta (61%)
- Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.8771, 0.3953, 0.2455 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 33.8771, 0.3953, 0.2455 by changing the saturation by 10% instead.



 33.8771, 0.3953,  
0.2455


 33.8771, 0.3953,  
0.2455


319.5837, 0.3535,  
0.2865


 22.7992, 0.4058,  
0.2356


 65.7425, 0.3800,  
0.2602


 14.4453, 0.4194,  
0.2231


 87.2988, 0.3743,  
0.2657

 8.4310, 0.4374,  
0.2069


 113.1167, 0.3695,  
0.2705

 4.3720, 0.4625,  
0.1851

 143.5805, 0.3654,  
0.2746

 1.8837, 0.4994,  
0.1547

179.0748, 0.3618,  
0.2781

 0.5386, 0.5628,  
0.1032

219.9838, 0.3587,

 0.0000, 0.7418,

0.2812

0.0000

266.6920, 0.3559,  
0.2840

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

33.8771, 0.3953,  
0.2455

33.8771, 0.3953,  
0.2455

29.2608, 0.4161,  
0.2373

40.0661, 0.3762,  
0.2570

26.0631, 0.4380,  
0.2337


47.9528, 0.3594,  
0.2706


24.1070, 0.4598,  
0.2354

57.6553, 0.3448,  
0.2851

23.1443, 0.4792,  
0.2414

69.2795, 0.3324,  
0.2999

 82.9234, 0.3220,  
0.3143

 98.6780, 0.3133,  
0.3280

99.9956, 0.3127,  
0.3290

# Harmonies

## Analogous

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



33.8771, 0.2865, 0.2004



33.8771, 0.3953, 0.2455



33.8771, 0.4881, 0.3070

# Triad

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



33.8771, 0.3953, 0.2455



33.8771, 0.4039, 0.5120



33.8771, 0.1418, 0.2280

# Complementary

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



33.8771, 0.3953, 0.2455



77.1186, 0.2746, 0.4388

# 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.



33.8771, 0.1611, 0.3156



33.8771, 0.3953, 0.2455



33.8771, 0.3086, 0.5207

# Square

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



33.8771, 0.3953, 0.2455



33.8771, 0.4822, 0.4492



33.8771, 0.2193, 0.4375



33.8771, 0.1559, 0.1863



# Rectangle

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



33.8771, 0.3953, 0.2455



33.8771, 0.5166, 0.3525



33.8771, 0.2193, 0.4375



33.8771, 0.1443, 0.2517

# Sweetspot

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



33.8788, 0.3953, 0.2455



72.8662, 0.3293, 0.3039



24.8575, 0.2426, 0.1541



14.7937, 0.3325, 0.2996



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.



33.8788, 0.3953, 0.2455



28.4358, 0.4209, 0.2361



31.4537, 0.4969, 0.3223



18.1538, 0.3208, 0.3160



12.1264, 0.4759, 0.2395



1.2028, 0.4533, 0.2271



# Inverse Universe

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



33.8788, 0.3953, 0.2455



28.4358, 0.4209, 0.2361



80.9459, 0.2414, 0.3379



18.1538, 0.3208, 0.3160



12.1264, 0.4759, 0.2395



1.2028, 0.4533, 0.2271



# Previews

## White Background



This preview shows how the Yxy color 33.8771, 0.3953, 0.2455 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

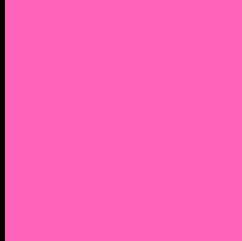
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.8771, 0.3953, 0.2455 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 33.8771, 0.3953, 0.2455**

## Background



This preview shows how black text looks on a background with the Yxy color 33.8771, 0.3953, 0.2455.



This preview shows how white text looks on a background with the Yxy color 33.8771, 0.3953, 0.2455.

# 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

33.8771, 0.3953, 0.2455

### Protanopia

34.0587, 0.2443, 0.2355

### Deuteranopia

34.1780, 0.3017, 0.2963



## Tritanopia

33.7638, 0.4659, 0.3214

# Trichromacy



## Original Color

33.8771, 0.3953, 0.2455



## Protanomaly

31.5648, 0.2871, 0.2330



## Deuteranomaly

32.2158, 0.3335, 0.2700



## Tritanomaly

33.6771, 0.4410, 0.2928

# Monochromacy



## Original Color

33.8771, 0.3953, 0.2455



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

31.6048, 0.3417, 0.2878

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.8771, 0.3953, 0.2455 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, 100, 185)` looks like.

```
.text, #text, p{  
    color:rgb(255, 100, 185)  
}
```

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, 100, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 100, 185) }
```

## Border

The CSS property to change the border of an element to Yxy 33.8771, 0.3953, 0.2455 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, 100, 185) }
```

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

```
.border{ border-color:rgb(255, 100, 185) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 100, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 100, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 100, 185);  
box-shadow:4px 4px 4px 4px rgb(255, 100,  
185) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.8771, 0.3953, 0.2455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 100, 185) }
```

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

```
.background{ background-color: rgb(255,  
100, 185) }
```

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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