

# Converting Colors

$Y_{xy}(28.1234, 0.3745, 0.1963)$

Have a look what the booklet for  
Yxy(28.1234, 0.3745, 0.1963)  
contains.

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**Color**

**Yxy(28.1326, 0.3742, 0.1961)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF33CF
RGB	255, 51, 207
RGB Percent	100%, 20%, 81%
CMY	0.0001, 0.7998, 0.1882
CMYK	0.00, 0.80, 0.19, 0.00
HSL	314°, 100%, 60%
HSV	314°, 80%, 100%
XYZ	53.6829, 28.1326, 61.6450
YIQ	129.7800, 71.5080, 91.7640

# Conversions

## Conversions Part 2

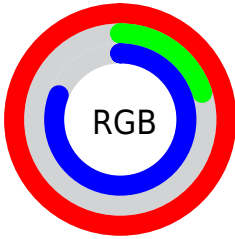
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 51, 207
Decimal	16724943
CIE Lab	60.01, 85.68, -34.40
CIE LCh	60, 92.331, 338.123
Yxy	28.1326, 0.3742, 0.1961
Android (android.graphics.Color)	4294915023 (0xFFFF33CF)
YUV	129.7800, 38.0695, 109.8179
Hunter-Lab	53.0402, 87.8427, -31.7806

# Details

The Yxy color **28.1326, 0.3742, 0.1961** is a light color, and the websafe version is hex **FF33CC**. The color can be described as light washed magenta. A complement of this color would be **73.1140, 0.2888, 0.5363**, and the grayscale version is **22.0941, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.1547, 0.3186, 0.2031**, and **13.7363, 0.3848, 0.1894** is the 20% darker color. If you saturate the color by 10%, you get **26.1935, 0.3836, 0.1927**, and if you desaturate by 10%, it is **31.3055, 0.3646, 0.2043**.

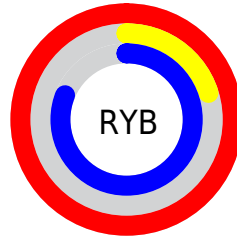
# Distribution



Red (100%)

Green (20%)

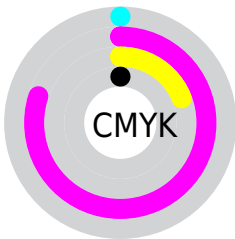
Blue (81%)



Red (100%)

Yellow (20%)

Blue (81%)

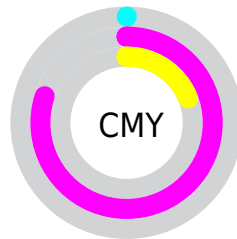


Cyan (0%)

Magenta (80%)

Yellow (19%)

Black (0%)



Cyan (0%)

Magenta (80%)

Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.1326, 0.3742, 0.1961 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 28.1326, 0.3742, 0.1961 by changing the saturation by 10% instead.





 28.1326, 0.3742,  
0.1961


 28.1326, 0.3742,  
0.1961


293.1000, 0.3453,  
0.2587


 18.4256, 0.3808,  
0.1819


 56.6961, 0.3642,  
0.2179


 11.2560, 0.3888,  
0.1645


 76.3214, 0.3602,  
0.2263


 6.2393, 0.3988,  
0.1429


 100.0216, 0.3569,  
0.2336

 2.9911, 0.4112,  
0.1157

 128.1811, 0.3539,  
0.2400

 1.1271, 0.4268,  
0.0818

 161.1843, 0.3514,  
0.2455

 0.0009, 0.4644,  
0.0002

199.4156, 0.3491,

 0.0000, 0.4639,

0.2504

0.0000

243.2593, 0.3471,  
0.2548

■ 0.0000, 0.0000,  
0.0000

■ 28.1326, 0.3742,  
0.1961

■ 28.1326, 0.3742,  
0.1961

■ 26.1935, 0.3836,  
0.1927

■ 31.3055, 0.3646,  
0.2043

■ 25.1989, 0.3927,  
0.1937

■ 35.8825, 0.3551,  
0.2168

■ 25.1973, 0.3927,  
0.1937

■ 42.0118, 0.3461,  
0.2327

■ 49.8212, 0.3377,  
0.2509

■ 59.4255, 0.3301,  
0.2704

 70.9294, 0.3235,  
0.2904

 84.4294, 0.3177,  
0.3101

99.9960, 0.3127,  
0.3290

99.9964, 0.3127,  
0.3290

# Harmonies

## Analogous

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



28.1326, 0.2321, 0.1509



28.1326, 0.3742, 0.1961



28.1326, 0.5256, 0.2643

# Triad

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



28.1326, 0.3742, 0.1961



28.1326, 0.4496, 0.5344



28.1326, 0.0960, 0.2144

# Complementary

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



28.1326, 0.3742, 0.1961



73.1140, 0.2888, 0.5363

# 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.



28.1326, 0.1271, 0.3567



28.1326, 0.3742, 0.1961



28.1326, 0.3282, 0.6127

# Square

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



28.1326, 0.3742, 0.1961



28.1326, 0.5510, 0.4296



28.1326, 0.2104, 0.5496



28.1326, 0.1031, 0.1514



# Rectangle

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



28.1326, 0.3742, 0.1961



28.1326, 0.5828, 0.3150



28.1326, 0.2104, 0.5496



28.1326, 0.1014, 0.2514

# Sweetspot

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



28.1340, 0.3742, 0.1961



66.0820, 0.3260, 0.2824



12.2223, 0.1841, 0.0924



13.2789, 0.3285, 0.2752



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.



28.1340, 0.3742, 0.1961



25.5323, 0.3891, 0.1930



24.6568, 0.5261, 0.2883



18.2230, 0.3174, 0.3110



13.1926, 0.3912, 0.1929



1.3013, 0.3815, 0.1875



# Inverse Universe

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



28.1340, 0.3742, 0.1961



25.5323, 0.3891, 0.1930



76.4112, 0.2489, 0.3995



18.2230, 0.3174, 0.3110



13.1926, 0.3912, 0.1929

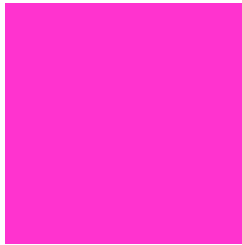


1.3013, 0.3815, 0.1875



# Previews

## White Background



This preview shows how the Yxy color 28.1326, 0.3742, 0.1961 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

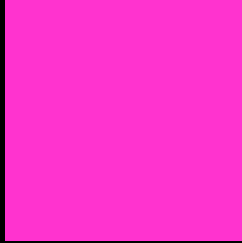
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.1326, 0.3742, 0.1961 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 × Fail

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

**Yxy 28.1326, 0.3742, 0.1961**

## Background



This preview shows how black text looks on a background with the Yxy color 28.1326, 0.3742, 0.1961.



This preview shows how white text looks on a background with the Yxy color 28.1326, 0.3742, 0.1961.

# 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

28.1326, 0.3742, 0.1961

### Protanopia

28.5451, 0.2012, 0.1796

### Deuteranopia

28.4103, 0.2569, 0.2514



## Tritanopia

27.9486, 0.5063, 0.3239

# Trichromacy



## Original Color

28.1326, 0.3742, 0.1961



## Protanomaly

23.4775, 0.2385, 0.1669



## Deuteranomaly

24.5055, 0.2931, 0.2126



## Tritanomaly

27.2825, 0.4610, 0.2716

# Monochromacy



## Original Color

28.1326, 0.3742, 0.1961



## Achromatopsia

22.3228, 0.3127, 0.3290



## Achromatomaly

20.8899, 0.3382, 0.2479

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.1326, 0.3742, 0.1961 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, 51, 207)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 207)  
}
```

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, 51, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 28.1326, 0.3742, 0.1961 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, 51, 207) }
```

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

```
.border{ border-color:rgb(255, 51, 207) }
```

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

Here you see how a box with a 4 pixel rgb(255, 51, 207) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 207);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.1326, 0.3742, 0.1961 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 51, 207) }
```

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

```
.background{ background-color: rgb(255, 51,  
207) }
```

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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