

# Converting Colors

$Y_{xy}(28.5320, 0.3643, 0.1901)$

Have a look what the booklet for  
Yxy(28.5320, 0.3643, 0.1901)  
contains.

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**Color**

**Yxy(28.5339, 0.3643, 0.1901)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF33D7
RGB	255, 51, 215
RGB Percent	100%, 20%, 84%
CMY	0.0000, 0.7997, 0.1570
CMYK	0.00, 0.80, 0.16, 0.00
HSL	312°, 100%, 60%
HSV	312°, 80%, 100%
XYZ	54.6812, 28.5339, 66.8843
YIQ	130.6920, 68.9400, 94.2520

# Conversions

## Conversions Part 2

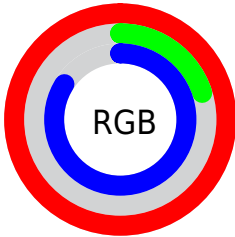
Format	Color
R <sub>Y</sub> B	255, 51, 215
Decimal	16724951
CIE Lab	60.37, 86.68, -38.34
CIE LCh	60, 94.780, 336.136
Yxy	28.5339, 0.3643, 0.1901
Android (android.graphics.Color)	4294915031 (0xFFFF33D7)
YUV	130.6920, 41.5638, 109.0181
Hunter-Lab	53.4171, 89.2441, -36.8458

# Details

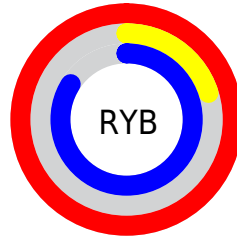
The Yxy color **28.5339, 0.3643, 0.1901** is a light color, and the websafe version is hex **FF33CC**. The color can be described as light washed magenta. A complement of this color would be **72.9750, 0.2913, 0.5448**, and the grayscale version is **22.4242, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.1547, 0.3186, 0.2031**, and **14.0074, 0.3711, 0.1818** is the 20% darker color. If you saturate the color by 10%, you get **26.6282, 0.3719, 0.1861**, and if you desaturate by 10%, it is **31.6704, 0.3565, 0.1989**.

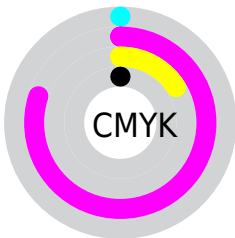
# Distribution



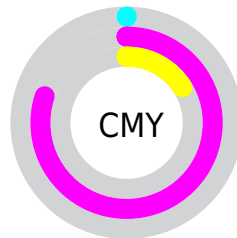
- Red (100%)
- Green (20%)
- Blue (84%)



- Red (100%)
- Yellow (20%)
- Blue (84%)



- Cyan (0%)
- Magenta (80%)
- Yellow (16%)
- Black (0%)




- Cyan (0%)
- Magenta (80%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.5339, 0.3643, 0.1901 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 28.5339, 0.3643, 0.1901 by changing the saturation by 10% instead.





 28.5339, 0.3643,  
0.1901


 28.5339, 0.3643,  
0.1901


295.0094, 0.3410,  
0.2548

 18.7285, 0.3693,  
0.1756


 57.3357, 0.3564,  
0.2124


 11.4743, 0.3752,  
0.1581

 77.1009, 0.3533,  
0.2211

 6.3868, 0.3822,  
0.1365


 100.9549, 0.3506,  
0.2287

 3.0817, 0.3905,  
0.1097

 129.2819, 0.3482,  
0.2352

 1.1745, 0.3996,  
0.0768

 162.4665, 0.3461,  
0.2410

 0.0407, 0.4216,  
0.0058

200.8930, 0.3442,

 0.0000, 0.4090,

0.2461

0.0000

244.9459, 0.3425,  
0.2507

■ 0.0000, 0.1377,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 28.5339, 0.3643,  
0.1901

■ 28.5339, 0.3643,  
0.1901

■ 26.6282, 0.3719,  
0.1861

■ 31.6704, 0.3565,  
0.1989

■ 25.6642, 0.3791,  
0.1862

■ 36.2080, 0.3487,  
0.2119

■ 25.6620, 0.3791,  
0.1862

■ 42.2946, 0.3412,  
0.2284

■ 50.0582, 0.3342,  
0.2474

■ 59.6134, 0.3278,  
0.2677

■ 71.0649, 0.3221,  
0.2885

■ 84.5090, 0.3170,  
0.3092

■ 99.9977, 0.3127,  
0.3290

# Harmonies

## Analogous

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



28.5339, 0.2229, 0.1465



28.5339, 0.3643, 0.1901



28.5339, 0.5215, 0.2578

# Triad

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



28.5339, 0.3643, 0.1901



28.5339, 0.4580, 0.5292



28.5339, 0.0939, 0.2185

# Complementary

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



28.5339, 0.3643, 0.1901



72.9750, 0.2913, 0.5448

# 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.



28.5339, 0.1277, 0.3696



28.5339, 0.3643, 0.1901



28.5339, 0.3349, 0.6159

# Square

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



28.5339, 0.3643, 0.1901



28.5339, 0.5590, 0.4226



28.5339, 0.2150, 0.5657



28.5339, 0.0990, 0.1510



# Rectangle

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



28.5339, 0.3643, 0.1901



28.5339, 0.5845, 0.3085



28.5339, 0.2150, 0.5657



28.5339, 0.1000, 0.2580

# Sweetspot

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



28.5353, 0.3643, 0.1901



66.2248, 0.3243, 0.2801



11.6899, 0.1784, 0.0895



13.3137, 0.3263, 0.2727



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.



28.5353, 0.3643, 0.1901



25.9835, 0.3762, 0.1858



24.8841, 0.5104, 0.2788



18.2356, 0.3168, 0.3101



13.4320, 0.3780, 0.1856



1.3227, 0.3702, 0.1813



# Inverse Universe

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



28.5353, 0.3643, 0.1901



25.9835, 0.3762, 0.1858



75.9537, 0.2531, 0.4137



18.2356, 0.3168, 0.3101



13.4320, 0.3780, 0.1856



1.3227, 0.3702, 0.1813



# Previews

## White Background



This preview shows how the Yxy color 28.5339, 0.3643, 0.1901 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

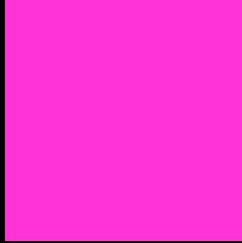
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.5339, 0.3643, 0.1901 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

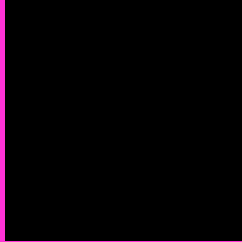
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.5339, 0.3643, 0.1901**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.5339, 0.3643, 0.1901.



This preview shows how white text looks on a background with the Yxy color 28.5339, 0.3643, 0.1901.

# 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

28.5339, 0.3643, 0.1901

### Protanopia

28.8932, 0.2020, 0.1810

### Deuteranopia

28.6939, 0.2477, 0.2421



**Tritanopia**

28.5170, 0.5017, 0.3248

# Trichromacy



## Original Color

28.5339, 0.3643, 0.1901



## Protanomaly

23.9039, 0.2383, 0.1668



## Deuteranomaly

24.5411, 0.2826, 0.2035



## Tritanomaly

27.6847, 0.4543, 0.2690

# Monochromacy



## Original Color

28.5339, 0.3643, 0.1901



## Achromatopsia

22.6966, 0.3127, 0.3290



## Achromatomaly

21.3415, 0.3343, 0.2445

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.5339, 0.3643, 0.1901 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, 215)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 215)  
}
```

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, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 215) }
```

## Border

The CSS property to change the border of an element to Yxy 28.5339, 0.3643, 0.1901 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, 215) }
```

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

```
.border{ border-color:rgb(255, 51, 215) }
```

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, 215) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 215);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
215) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.5339, 0.3643, 0.1901 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, 215) }
```

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

```
.background{ background-color: rgb(255, 51,  
215) }
```

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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