

# Converting Colors

$Y_{xy}(28.0419, 0.3766, 0.1976)$

Have a look what the booklet for  
Yxy(28.0419, 0.3766, 0.1976)  
contains.

<b>Yxy(28.0354, 0.3768, 0.1977)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(28.0354, 0.3768, 0.1977)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF33CD
RGB	255, 51, 205
RGB Percent	100%, 20%, 80%
CMY	0.0001, 0.7996, 0.1962
CMYK	0.00, 0.80, 0.20, 0.00
HSL	315°, 100%, 60%
HSV	315°, 80%, 100%
XYZ	53.4332, 28.0354, 60.3392
YIQ	129.5520, 72.1500, 91.1420

# Conversions

## Conversions Part 2

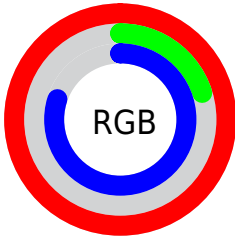
Format	Color
R <sub>Y</sub> B	255, 51, 205
Decimal	16724941
CIE Lab	59.92, 85.42, -33.38
CIE LCh	60, 91.708, 338.656
Yxy	28.0354, 0.3768, 0.1977
Android (android.graphics.Color)	4294915021 (0xFFFF33CD)
YUV	129.5520, 37.1959, 110.0179
Hunter-Lab	52.9485, 87.4742, -30.5020

# Details

The Yxy color **28.0354, 0.3768, 0.1977** 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 **73.1490, 0.2881, 0.5340**, and the grayscale version is **22.0198, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.1547, 0.3186, 0.2031**, and **13.6713, 0.3884, 0.1913** is the 20% darker color. If you saturate the color by 10%, you get **26.0863, 0.3867, 0.1945**, and if you desaturate by 10%, it is **31.2195, 0.3667, 0.2058**.

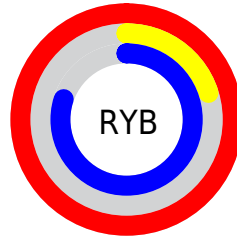
# Distribution



Red (100%)

Green (20%)

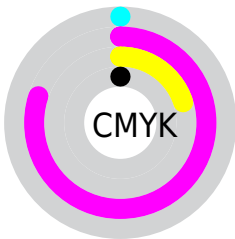
Blue (80%)



Red (100%)

Yellow (20%)

Blue (80%)

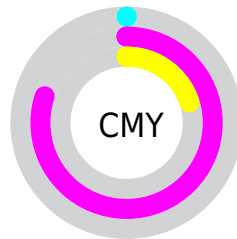


Cyan (0%)

Magenta (80%)

Yellow (20%)

Black (0%)



Cyan (0%)

Magenta (80%)


Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.0354, 0.3768, 0.1977 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 28.0354, 0.3768, 0.1977 by changing the saturation by 10% instead.





 28.0354, 0.3768,  
0.1977


 28.0354, 0.3768,  
0.1977


292.6360, 0.3464,  
0.2598


 18.3523, 0.3838,  
0.1835


 56.5410, 0.3662,  
0.2193

 11.2032, 0.3924,  
0.1662


 76.1322, 0.3620,  
0.2277

 6.2037, 0.4031,  
0.1446


 99.7951, 0.3585,  
0.2349

 2.9693, 0.4168,  
0.1174

 127.9138, 0.3554,  
0.2412

 1.1157, 0.4342,  
0.0832

 160.8729, 0.3527,  
0.2467

 0.0000, 0.4757,  
0.0000


199.0567, 0.3504,

 0.0000, 0.4795,

0.2516

0.0000


242.8496, 0.3483,  
0.2559


 0.0000, 0.0000,  
0.0000


 28.0354, 0.3768,  
0.1977


 28.0354, 0.3768,  
0.1977


 26.0863, 0.3867,  
0.1945


 31.2195, 0.3667,  
0.2058


 25.0835, 0.3963,  
0.1957


 35.8088, 0.3568,  
0.2181


 25.0804, 0.3963,  
0.1957

 41.9513, 0.3473,  
0.2338

 49.7752, 0.3386,  
0.2519

 59.3949, 0.3307,  
0.2712

 70.9152, 0.3238,  
0.2909

 84.4326, 0.3178,  
0.3104

99.9942, 0.3127,  
0.3290

99.9946, 0.3127,  
0.3290

# Harmonies

## Analogous

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



28.0354, 0.2346, 0.1521



28.0354, 0.3768, 0.1977



28.0354, 0.5266, 0.2660

# Triad

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



28.0354, 0.3768, 0.1977



28.0354, 0.4474, 0.5357



28.0354, 0.0966, 0.2133

# Complementary

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



28.0354, 0.3768, 0.1977



73.1490, 0.2881, 0.5340

# 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.



28.0354, 0.1269, 0.3534



28.0354, 0.3768, 0.1977



28.0354, 0.3264, 0.6117

# Square

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



28.0354, 0.3768, 0.1977



28.0354, 0.5488, 0.4315



28.0354, 0.2092, 0.5453



28.0354, 0.1043, 0.1515



# Rectangle

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



28.0354, 0.3768, 0.1977



28.0354, 0.5823, 0.3168



28.0354, 0.2092, 0.5453



28.0354, 0.1018, 0.2498

# Sweetspot

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



28.0368, 0.3768, 0.1977



66.0455, 0.3265, 0.2829



12.2273, 0.1841, 0.0925



13.2701, 0.3290, 0.2759



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.



28.0368, 0.3768, 0.1977



25.4204, 0.3925, 0.1949



24.6594, 0.5260, 0.2883



18.2197, 0.3176, 0.3112



13.1333, 0.3948, 0.1948



1.2960, 0.3845, 0.1892



# Inverse Universe

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



28.0368, 0.3768, 0.1977



25.4204, 0.3925, 0.1949



76.4062, 0.2489, 0.3995



18.2197, 0.3176, 0.3112



13.1333, 0.3948, 0.1948

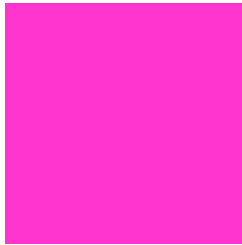


1.2960, 0.3845, 0.1892



# Previews

## White Background



This preview shows how the Yxy color 28.0354, 0.3768, 0.1977 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

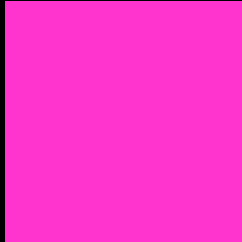
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.0354, 0.3768, 0.1977 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

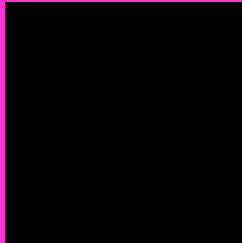
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.0354, 0.3768, 0.1977**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.0354, 0.3768, 0.1977.



This preview shows how white text looks on a background with the Yxy color 28.0354, 0.3768, 0.1977.

# 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

28.0354, 0.3768, 0.1977

### Protanopia

28.4939, 0.2008, 0.1794

### Deuteranopia

28.1018, 0.2590, 0.2525



## Tritanopia

27.9381, 0.5092, 0.3240

# Trichromacy



## Original Color

28.0354, 0.3768, 0.1977



## Protanomaly

23.4189, 0.2391, 0.1676



## Deuteranomaly

24.3156, 0.2961, 0.2138



## Tritanomaly

27.0862, 0.4643, 0.2728

# Monochromacy



## Original Color

28.0354, 0.3768, 0.1977



## Achromatopsia

22.3228, 0.3127, 0.3290



## Achromatomaly

20.8556, 0.3395, 0.2492

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.0354, 0.3768, 0.1977 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, 205)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 205)  
}
```

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, 205) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 205) }
```

## Border

The CSS property to change the border of an element to Yxy 28.0354, 0.3768, 0.1977 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, 205) }
```

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

```
.border{ border-color:rgb(255, 51, 205) }
```

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, 205) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 205); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 205);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
205) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.0354, 0.3768, 0.1977 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, 205) }
```

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

```
.background{ background-color: rgb(255, 51,  
205) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor