

# Converting Colors

$Y_{xy}(29.2994, 0.3475, 0.1799)$

Have a look what the booklet for  
Yxy(29.2994, 0.3475, 0.1799)  
contains.

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**Color**

**Yxy(29.2848, 0.3478, 0.1800)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF33E5
RGB	255, 51, 229
RGB Percent	100%, 20%, 90%
CMY	0.0000, 0.8005, 0.1018
CMYK	0.00, 0.80, 0.10, 0.00
HSL	308°, 100%, 60%
HSV	308°, 80%, 100%
XYZ	56.5847, 29.2848, 76.8238
YIQ	132.2880, 64.4460, 98.6060

# Conversions

## Conversions Part 2

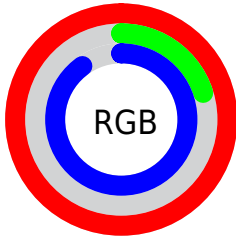
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 51, 229
Decimal	16724965
CIE Lab	61.03, 88.59, -45.24
CIE LCh	61, 99.467, 332.949
Yxy	29.2848, 0.3478, 0.1800
Android (android.graphics.Color)	4294915045 (0xFFFF33E5)
YUV	132.2880, 47.6790, 107.6184
Hunter-Lab	54.1154, 91.9430, -46.2890

# Details

The Yxy color **29.2848, 0.3478, 0.1800** is a light color, and the websafe version is hex **FF00CC**. The color can be described as light washed magenta. A complement of this color would be **72.7543, 0.2953, 0.5587**, and the grayscale version is **22.9650, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.3991, 0.3186, 0.2039**, and **14.4865, 0.3503, 0.1704** is the 20% darker color. If you saturate the color by 10%, you get **27.4511, 0.3523, 0.1749**, and if you desaturate by 10%, it is **32.3232, 0.3429, 0.1896**.

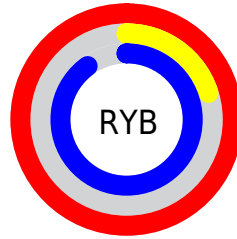
# Distribution



Red (100%)

Green (20%)

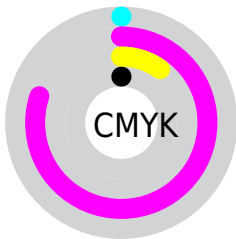
Blue (90%)



Red (100%)

Yellow (20%)

Blue (90%)

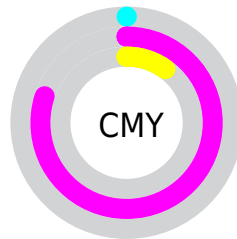


Cyan (0%)

Magenta (80%)

Yellow (10%)

Black (0%)



Cyan (0%)

Magenta (80%)


Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.2848, 0.3478, 0.1800 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 29.2848, 0.3478, 0.1800 by changing the saturation by 10% instead.





 29.2848, 0.3478,  
0.1800


 29.2848, 0.3478,  
0.1800


298.5564, 0.3338,  
0.2480

 19.2964, 0.3502,  
0.1652


 58.5293, 0.3435,  
0.2031

 11.8846, 0.3528,  
0.1475


 78.5541, 0.3417,  
0.2122


 6.6652, 0.3553,  
0.1260


 102.6932, 0.3400,  
0.2202

 3.2536, 0.3572,  
0.1000

 131.3309, 0.3385,  
0.2271

 1.2655, 0.3571,  
0.0689

 164.8517, 0.3372,  
0.2333

 0.1143, 0.3593,  
0.0127

203.6400, 0.3359,

 0.0000, 0.3322,

0.2387

0.0000

248.0801, 0.3348,  
0.2436

■ 0.0000, 0.1598,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 29.2848, 0.3478,  
0.1800

■ 29.2848, 0.3478,  
0.1800

■ 27.4511, 0.3523,  
0.1749

■ 32.3232, 0.3429,  
0.1896

■ 26.5641, 0.3566,  
0.1738


■ 36.7673, 0.3379,  
0.2035

■ 42.7549, 0.3329,  
0.2209

■ 50.4141, 0.3281,  
0.2410

 59.8597, 0.3237,  
0.2627

 71.1962, 0.3196,  
0.2850

 84.5202, 0.3159,  
0.3073

99.9216, 0.3127,  
0.3289

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.



29.2848, 0.2077, 0.1389



29.2848, 0.3478, 0.1800



29.2848, 0.5144, 0.2468

# Triad

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



29.2848, 0.3478, 0.1800



29.2848, 0.4722, 0.5205



29.2848, 0.0899, 0.2255

# Complementary

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



29.2848, 0.3478, 0.1800



72.7543, 0.2953, 0.5587

# 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.



29.2848, 0.1285, 0.3927



29.2848, 0.3478, 0.1800



29.2848, 0.3455, 0.6198

# Square

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



29.2848, 0.3478, 0.1800



29.2848, 0.5727, 0.4108



29.2848, 0.2221, 0.5928



29.2848, 0.0920, 0.1502



# Rectangle

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



29.2848, 0.3478, 0.1800



29.2848, 0.5874, 0.2976



29.2848, 0.2221, 0.5928



29.2848, 0.0973, 0.2696

# Sweetspot

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



29.2761, 0.3477, 0.1800



66.4833, 0.3212, 0.2762



11.0606, 0.1717, 0.0859



13.3767, 0.3226, 0.2682



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.



29.2761, 0.3477, 0.1800



26.8556, 0.3549, 0.1740



25.2054, 0.4892, 0.2658



18.2583, 0.3158, 0.3085



13.8959, 0.3560, 0.1735



1.3636, 0.3514, 0.1709



# Inverse Universe

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



29.2761, 0.3477, 0.1800



26.8556, 0.3549, 0.1740



75.3852, 0.2587, 0.4331



18.2583, 0.3158, 0.3085



13.8959, 0.3560, 0.1735



1.3636, 0.3514, 0.1709



# Previews

## White Background



This preview shows how the Yxy color 29.2848, 0.3478, 0.1800 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

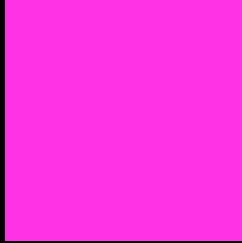
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.2848, 0.3478, 0.1800 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

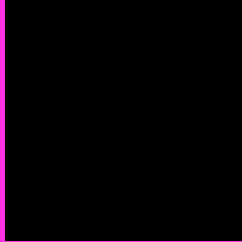
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.2848, 0.3478, 0.1800**

## Background



This preview shows how black text looks on a background with the Yxy color 29.2848, 0.3478, 0.1800.



This preview shows how white text looks on a background with the Yxy color 29.2848, 0.3478, 0.1800.

# 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

29.2848, 0.3478, 0.1800

### Protanopia

29.6533, 0.2039, 0.1841

### Deuteranopia

29.3672, 0.2345, 0.2284



## Tritanopia

29.0190, 0.4894, 0.3226

# Trichromacy



## Original Color

29.2848, 0.3478, 0.1800



## Protanomaly

24.6757, 0.2365, 0.1642



## Deuteranomaly

24.9142, 0.2659, 0.1899



## Tritanomaly

28.0431, 0.4380, 0.2615

# Monochromacy



## Original Color

29.2848, 0.3478, 0.1800



## Achromatopsia

23.0740, 0.3127, 0.3290



## Achromatomaly

21.8376, 0.3292, 0.2400

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.2848, 0.3478, 0.1800 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, 229)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 229)  
}
```

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, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 229) }
```

## Border

The CSS property to change the border of an element to Yxy 29.2848, 0.3478, 0.1800 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, 229) }
```

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

```
.border{ border-color:rgb(255, 51, 229) }
```

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, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 229);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
229) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.2848, 0.3478, 0.1800 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, 229) }
```

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

```
.background{ background-color: rgb(255, 51,  
229) }
```

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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