

# Converting Colors

$Y_{xy}(29.9370, 0.3440, 0.1798)$

Have a look what the booklet for  
Yxy(29.9370, 0.3440, 0.1798)  
contains.

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# Color

**Yxy(29.9145, 0.3442, 0.1800)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF38E8
RGB	255, 56, 232
RGB Percent	100%, 22%, 91%
CMY	0.0002, 0.7799, 0.0903
CMYK	0.00, 0.78, 0.09, 0.00
HSL	307°, 100%, 61%
HSV	307°, 78%, 100%
XYZ	57.2032, 29.9145, 79.0740
YIQ	135.5650, 62.1080, 96.9240

# Conversions

## Conversions Part 2

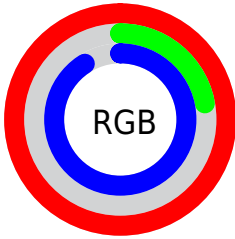
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 56, 232
Decimal	16726248
CIE <sub>Lab</sub>	61.58, 87.75, -46.01
CIE <sub>LCh</sub>	62, 99.081, 332.329
Yxy	29.9145, 0.3442, 0.1800
Android (android.graphics.Color)	4294916328 (0xFFFF38E8)
YUV	135.5650, 47.5425, 104.7445
Hunter-Lab	54.6941, 90.9737, -47.4325

# Details

The Yxy color **29.9145, 0.3442, 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 **72.9031, 0.2958, 0.5559**, and the grayscale version is **24.2727, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.1472, 0.3185, 0.2063**, and **14.6039, 0.3458, 0.1679** is the 20% darker color. If you saturate the color by 10%, you get **27.8702, 0.3484, 0.1739**, and if you desaturate by 10%, it is **33.2218, 0.3397, 0.1907**.

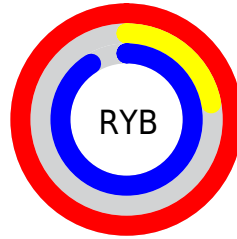
# Distribution



Red (100%)

Green (22%)

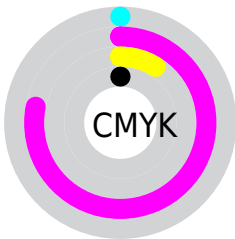
Blue (91%)



Red (100%)

Yellow (22%)

Blue (91%)

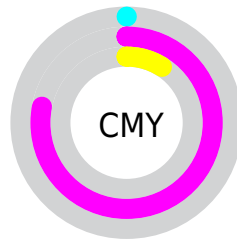


Cyan (0%)

Magenta (78%)

Yellow (9%)

Black (0%)



Cyan (0%)

Magenta (78%)


Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.9145, 0.3442, 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 29.9145, 0.3442, 0.1800 by changing the saturation by 10% instead.




 29.9145, 0.3442,  
0.1800


 29.9145, 0.3442,  
0.1800


301.5057, 0.3321,  
0.2477


 19.7737, 0.3462,  
0.1653


 59.5269, 0.3406,  
0.2030


 12.2307, 0.3482,  
0.1477


 79.7674, 0.3390,  
0.2121


 6.9010, 0.3499,  
0.1265


 104.1431, 0.3376,  
0.2200

 3.4002, 0.3508,  
0.1007

 133.0386, 0.3363,  
0.2269

 1.3441, 0.3494,  
0.0700

 166.8382, 0.3351,  
0.2330

 0.1750, 0.3481,  
0.0183

205.9263, 0.3340,

 0.0000, 0.3211,

0.2385

0.0000

250.6874, 0.3330,  
0.2433

■ 0.0000, 0.1698,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 29.9145, 0.3442,  
0.1800

■ 29.9145, 0.3442,  
0.1800

■ 27.8702, 0.3484,  
0.1739

■ 33.2218, 0.3397,  
0.1907


■ 26.8577, 0.3523,  
0.1720

■ 37.9554, 0.3352,  
0.2055


■ 26.7139, 0.3531,  
0.1719

■ 44.2592, 0.3306,  
0.2237

■ 52.2578, 0.3263,  
0.2444

 62.0639, 0.3222,  
0.2665

 73.7799, 0.3184,  
0.2892

 87.5010, 0.3151,  
0.3116

99.9919, 0.3127,  
0.3290

# Harmonies

## Analogous

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



29.9145, 0.2064, 0.1397



29.9145, 0.3442, 0.1800



29.9145, 0.5093, 0.2461

# Triad

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



29.9145, 0.3442, 0.1800



29.9145, 0.4741, 0.5172



29.9145, 0.0918, 0.2292

# Complementary

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



29.9145, 0.3442, 0.1800



72.9031, 0.2958, 0.5559

# 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.



29.9145, 0.1315, 0.3966



29.9145, 0.3442, 0.1800



29.9145, 0.3489, 0.6160

# Square

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



29.9145, 0.3442, 0.1800



29.9145, 0.5726, 0.4092



29.9145, 0.2258, 0.5921



29.9145, 0.0930, 0.1526



# Rectangle

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



29.9145, 0.3442, 0.1800



29.9145, 0.5834, 0.2968



29.9145, 0.2258, 0.5921



29.9145, 0.0995, 0.2736

# Sweetspot

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



29.9160, 0.3442, 0.1800



67.6887, 0.3203, 0.2778



11.5940, 0.1731, 0.0894



13.6096, 0.3216, 0.2696



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.



29.9160, 0.3442, 0.1800



27.1716, 0.3508, 0.1723



25.8597, 0.4773, 0.2623



18.2621, 0.3156, 0.3082



13.9783, 0.3525, 0.1715



1.3709, 0.3484, 0.1693



# Inverse Universe

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



29.9160, 0.3442, 0.1800



27.1716, 0.3508, 0.1723



75.4487, 0.2602, 0.4347



18.2621, 0.3156, 0.3082



13.9783, 0.3525, 0.1715



1.3709, 0.3484, 0.1693



# Previews

## White Background



This preview shows how the Yxy color 29.9145, 0.3442, 0.1800 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

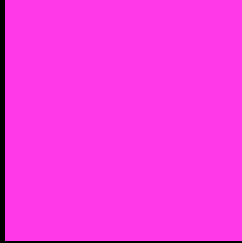
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.9145, 0.3442, 0.1800 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

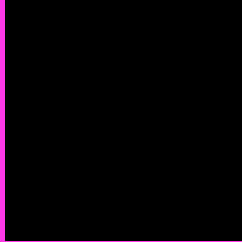
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.9145, 0.3442, 0.1800**

## Background



This preview shows how black text looks on a background with the Yxy color 29.9145, 0.3442, 0.1800.



This preview shows how white text looks on a background with the Yxy color 29.9145, 0.3442, 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

29.9145, 0.3442, 0.1800

### Protanopia

30.4304, 0.2058, 0.1871

### Deuteranopia

30.1458, 0.2333, 0.2280



## Tritanopia

29.6616, 0.4835, 0.3225

# Trichromacy



## Original Color

29.9145, 0.3442, 0.1800



## Protanomaly

25.5936, 0.2379, 0.1673



## Deuteranomaly

25.9681, 0.2640, 0.1919



## Tritanomaly

28.6043, 0.4327, 0.2609

# Monochromacy



## Original Color

29.9145, 0.3442, 0.1800



## Achromatopsia

24.6201, 0.3127, 0.3290



## Achromatomaly

23.0394, 0.3265, 0.2411

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.9145, 0.3442, 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, 56, 232)` looks like.

```
.text, #text, p{  
    color:rgb(255, 56, 232)  
}
```

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, 56, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 56, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 29.9145, 0.3442, 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, 56, 232) }
```

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

```
.border{ border-color:rgb(255, 56, 232) }
```

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

Here you see how a box with a 4 pixel rgb(255, 56, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 56, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 56, 232);  
box-shadow:4px 4px 4px 4px rgb(255, 56,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.9145, 0.3442, 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, 56, 232) }
```

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

```
.background{ background-color: rgb(255, 56,  
232) }
```

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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