

# Converting Colors

$Y_{xy}(32.8750, 0.3198, 0.1712)$

Have a look what the booklet for  
Yxy(32.8750, 0.3198, 0.1712)  
contains.

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**Color**

**Yxy(32.9865, 0.3201, 0.1716)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF47FF
RGB	255, 71, 255
RGB Percent	100%, 28%, 100%
CMY	0.0001, 0.7213, 0.0001
CMYK	0.00, 0.72, 0.00, 0.00
HSL	300°, 100%, 64%
HSV	300°, 72%, 100%
XYZ	61.5325, 32.9865, 97.7100
YIQ	146.9920, 50.6000, 96.2320

# Conversions

## Conversions Part 2

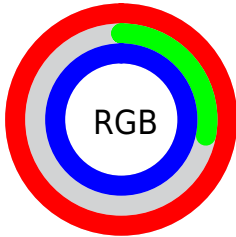
Format	Color
R <sub>Y</sub> B	255, 71, 255
Decimal	16730111
CIE Lab	64.15, 87.07, -54.72
CIE LCh	64, 102.834, 327.850
Yxy	32.9865, 0.3201, 0.1716
Android (android.graphics.Color)	4294920191 (0xFFFF47FF)
YUV	146.9920, 53.2479, 94.7230
Hunter-Lab	57.4339, 90.7290, -60.6641

# Details

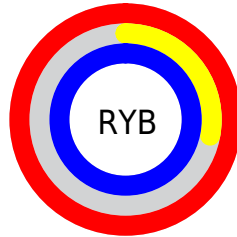
The Yxy color **32.9865, 0.3201, 0.1716** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **73.3017, 0.3019, 0.5603**, and the grayscale version is **28.9457, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.0883, 0.3181, 0.2153**, and **15.5006, 0.3171, 0.1521** is the 20% darker color. If you saturate the color by 10%, you get **30.3937, 0.3206, 0.1617**, and if you desaturate by 10%, it is **36.9419, 0.3194, 0.1858**.

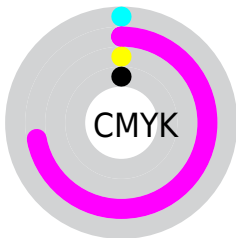
# Distribution



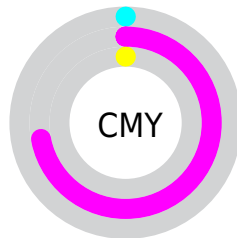
- Red (100%)
- Green (28%)
- Blue (100%)



- Red (100%)
- Yellow (28%)
- Blue (100%)



- Cyan (0%)
- Magenta (72%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (72%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.9865, 0.3201, 0.1716 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 32.9865, 0.3201, 0.1716 by changing the saturation by 10% instead.





 32.9865, 0.3201,  
0.1716


 32.9865, 0.3201,  
0.1716


315.5889, 0.3207,  
0.2410

 22.1161, 0.3189,  
0.1571


 64.3545, 0.3211,  
0.1947


 13.9422, 0.3170,  
0.1399


 85.6208, 0.3213,  
0.2040

 8.0805, 0.3137,  
0.1196


 111.1212, 0.3213,  
0.2121

 4.1465, 0.3081,  
0.0954

 141.2402, 0.3213,  
0.2193

 1.7558, 0.2982,  
0.0674

176.3620, 0.3212,  
0.2256

 0.4594, 0.2816,  
0.0323

216.8712, 0.3210,

 0.0000, 0.2492,

0.2313

0.0000

263.1520, 0.3209,  
0.2364

■ 0.0000, 0.1683,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 32.9865, 0.3201,  
0.1716

■ 32.9865, 0.3201,  
0.1716

■ 30.3937, 0.3206,  
0.1617

■ 36.9419, 0.3194,  
0.1858

■ 28.9762, 0.3208,  
0.1562

■ 42.4068, 0.3186,  
0.2039

■ 28.4735, 0.3209,  
0.1542

■ 49.5142, 0.3176,  
0.2253

■ 58.3810, 0.3165,  
0.2489

69.1138, 0.3153,  
0.2738

81.8106, 0.3141,  
0.2990

96.5626, 0.3130,  
0.3238

99.9936, 0.3127,  
0.3290

99.9936, 0.3127,  
0.3290

# Harmonies

## Analogous

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



32.9865, 0.1907, 0.1357



32.9865, 0.3201, 0.1716



32.9865, 0.4875, 0.2348

# Triad

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



32.9865, 0.3201, 0.1716



32.9865, 0.4915, 0.5002



32.9865, 0.0940, 0.2472

# Complementary

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



32.9865, 0.3201, 0.1716



73.3017, 0.3019, 0.5603

# 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.



32.9865, 0.1415, 0.4292



32.9865, 0.3201, 0.1716



32.9865, 0.3676, 0.6060

# Square

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



32.9865, 0.3201, 0.1716



32.9865, 0.5834, 0.3949



32.9865, 0.2429, 0.6106



32.9865, 0.0902, 0.1592



# Rectangle

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



32.9865, 0.3201, 0.1716



32.9865, 0.5724, 0.2849



32.9865, 0.2429, 0.6106



32.9865, 0.1039, 0.2970

# Sweetspot

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



32.9880, 0.3201, 0.1716



69.2808, 0.3153, 0.2741



13.4750, 0.1743, 0.1017



14.1637, 0.3156, 0.2673



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.



32.9880, 0.3201, 0.1716



29.5760, 0.3207, 0.1585



28.5260, 0.4274, 0.2420



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4489, 0.3209, 0.1542



# Inverse Universe

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



26.2255, 0.5611, 0.3297



22.4667, 0.6177, 0.3299



75.3824, 0.2701, 0.4555



17.9871, 0.3295, 0.3291



11.1088, 0.6401, 0.3300



1.0816, 0.6401, 0.3300



# Previews

## White Background



This preview shows how the Yxy color 32.9865, 0.3201, 0.1716 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

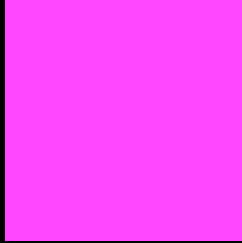
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.9865, 0.3201, 0.1716 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

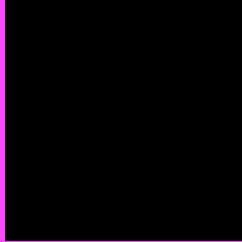
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.9865, 0.3201, 0.1716**

## Background



This preview shows how black text looks on a background with the Yxy color 32.9865, 0.3201, 0.1716.



This preview shows how white text looks on a background with the Yxy color 32.9865, 0.3201, 0.1716.

# 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

32.9865, 0.3201, 0.1716

### Protanopia

33.4472, 0.2141, 0.1982

### Deuteranopia

33.1685, 0.2192, 0.2127



## Tritanopia

32.7285, 0.4509, 0.3208

# Trichromacy



## Original Color

32.9865, 0.3201, 0.1716



## Protanomaly

29.2784, 0.2409, 0.1744



## Deuteranomaly

28.9172, 0.2451, 0.1813



## Tritanomaly

31.5054, 0.4016, 0.2548

# Monochromacy



## Original Color

32.9865, 0.3201, 0.1716



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

27.1779, 0.3168, 0.2411

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.9865, 0.3201, 0.1716 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, 71, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 71, 255)  
}
```

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, 71, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 71, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 32.9865, 0.3201, 0.1716 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, 71, 255) }
```

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

```
.border{ border-color:rgb(255, 71, 255) }
```

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

Here you see how a box with a 4 pixel rgb(255, 71, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 71, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 71, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 71,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.9865, 0.3201, 0.1716 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 71, 255) }
```

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

```
.background{ background-color: rgb(255, 71,  
255) }
```

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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