

# Converting Colors

$Y_{xy}(30.8454, 0.3205, 0.1635)$

Have a look what the booklet for  
Yxy(30.8454, 0.3205, 0.1635)  
contains.

|  |    |
|--|----|
| <b>Yxy(30.8477, 0.3205, 0.1635)</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(30.8477, 0.3205, 0.1635)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FF33FF                      |
| RGB         | 255, 51, 255                |
| RGB Percent | 100%, 20%, 100%             |
| CMY         | 0.0000, 0.7998, 0.0001      |
| CMYK        | 0.00, 0.80, 0.00, 0.00      |
| HSL         | 300°, 100%, 60%             |
| HSV         | 300°, 80%, 100%             |
| XYZ         | 60.4690, 30.8477, 97.3542   |
| YIQ         | 135.2520, 56.1000, 106.6920 |

# Conversions

## Conversions Part 2

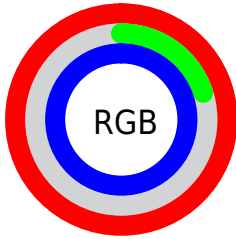
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 255, 51, 255                   |
| Decimal                             | 16724991                       |
| CIE Lab                             | 62.38, 92.19, -57.54           |
| CIE LCh                             | 62, 108.676, 328.030           |
| Yxy                                 | 30.8477, 0.3205,<br>0.1635     |
| Android<br>(android.graphics.Color) | 4294915071<br>(0xFFFF33FF)     |
| YUV                                 | 135.2520, 59.0358,<br>105.0190 |
| Hunter-Lab                          | 55.5407, 97.1427,<br>-65.0476  |

# Details

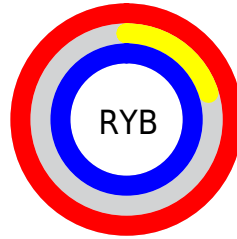
The Yxy color **30.8477, 0.3205, 0.1635** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **72.4617, 0.3010, 0.5782**, and the grayscale version is **24.0965, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.6459, 0.3185, 0.2047**, and **15.5006, 0.3171, 0.1521** is the 20% darker color. If you saturate the color by 10%, you get **29.1962, 0.3208, 0.1570**, and if you desaturate by 10%, it is **33.7219, 0.3200, 0.1743**.

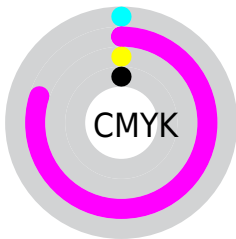
# Distribution



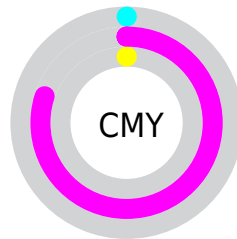
- Red (100%)
- Green (20%)
- Blue (100%)



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



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.8477, 0.3205, 0.1635 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 30.8477, 0.3205, 0.1635 by changing the saturation by 10% instead.




 30.8477, 0.3205,  
0.1635


 30.8477, 0.3205,  
0.1635


305.8361, 0.3214,  
0.2362

 20.4829, 0.3191,  
0.1484


 61.0002, 0.3217,  
0.1876

 12.7466, 0.3169,  
0.1307


 81.5567, 0.3219,  
0.1973


 7.2543, 0.3131,  
0.1098


 106.2792, 0.3220,  
0.2058

 3.6216, 0.3067,  
0.0854

 135.5522, 0.3220,  
0.2134

 1.4642, 0.2955,  
0.0577

 169.7599, 0.3219,  
0.2200

 0.2634, 0.2783,  
0.0191

209.2869, 0.3217,

 0.0000, 0.2403,

0.2260

0.0000

254.5175, 0.3216,  
0.2314

0.0000, 0.1508,  
0.0000

0.0000, 0.0000,  
0.0000

30.8477, 0.3205,  
0.1635

30.8477, 0.3205,  
0.1635

29.1962, 0.3208,  
0.1570

33.7219, 0.3200,  
0.1743

28.4783, 0.3209,  
0.1542

37.9892, 0.3193,  
0.1894

28.4773, 0.3209,  
0.1542

43.7974, 0.3184,  
0.2083

51.2746, 0.3174,  
0.2302

60.5353, 0.3162,  
0.2542

71.6840, 0.3151,  
0.2792

84.8172, 0.3139,  
0.3044

99.9989, 0.3127,  
0.3290

99.9990, 0.3127,  
0.3290

# Harmonies

## Analogous

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



30.8477, 0.1837, 0.1267



30.8477, 0.3205, 0.1635



30.8477, 0.5014, 0.2286

# Triad

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



30.8477, 0.3205, 0.1635



30.8477, 0.4955, 0.5045



30.8477, 0.0831, 0.2382

# Complementary

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



30.8477, 0.3205, 0.1635



72.4617, 0.3010, 0.5782

# 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.



30.8477, 0.1292, 0.4352



30.8477, 0.3205, 0.1635



30.8477, 0.3616, 0.6220

# Square

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



30.8477, 0.3205, 0.1635



30.8477, 0.5955, 0.3909



30.8477, 0.2325, 0.6363



30.8477, 0.0807, 0.1487



# Rectangle

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



30.8477, 0.3205, 0.1635



30.8477, 0.5916, 0.2795



30.8477, 0.2325, 0.6363



30.8477, 0.0924, 0.2908

# Sweetspot

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



30.8491, 0.3205, 0.1635



66.9742, 0.3155, 0.2691



10.2962, 0.1630, 0.0815



13.4970, 0.3160, 0.2602



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.



30.8491, 0.3205, 0.1635



28.6999, 0.3209, 0.1551



25.9312, 0.4514, 0.2430



18.3004, 0.3138, 0.3056



14.8806, 0.3209, 0.1542



1.4489, 0.3209, 0.1542



# Inverse Universe

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



30.8491, 0.3205, 0.1635



28.6999, 0.3209, 0.1551



74.5227, 0.2685, 0.4667



18.3004, 0.3138, 0.3056



14.8806, 0.3209, 0.1542



1.4489, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 30.8477, 0.3205, 0.1635 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

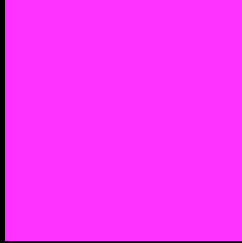
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.8477, 0.3205, 0.1635 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

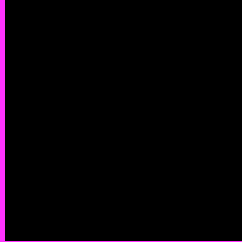
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.8477, 0.3205, 0.1635**

## Background



This preview shows how black text looks on a background with the Yxy color 30.8477, 0.3205, 0.1635.



This preview shows how white text looks on a background with the Yxy color 30.8477, 0.3205, 0.1635.

# 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

30.8477, 0.3205, 0.1635

### Protanopia

31.2834, 0.2083, 0.1903

### Deuteranopia

31.1367, 0.2128, 0.2065



## Tritanopia

30.5113, 0.4677, 0.3211

# Trichromacy



## Original Color

30.8477, 0.3205, 0.1635



## Protanomaly

26.2994, 0.2349, 0.1623



## Deuteranomaly

25.9832, 0.2388, 0.1701



## Tritanomaly

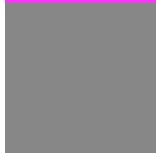
29.0189, 0.4117, 0.2487

# Monochromacy



## Original Color

30.8477, 0.3205, 0.1635



## Achromatopsia

24.2281, 0.3127, 0.3290



## Achromatomaly

22.7390, 0.3175, 0.2279

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.8477, 0.3205, 0.1635 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, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 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, 51, 255) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to Yxy 30.8477, 0.3205, 0.1635 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, 255) }
```

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

```
.border{ border-color:rgb(255, 51, 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, 51, 255)` colored shadow looks like.

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



# Background

The CSS property to change the background color of an element to Yxy 30.8477, 0.3205, 0.1635 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, 255) }
```

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

```
.background{ background-color: rgb(255, 51,  
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](#).

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