

# Converting Colors

Yxy(31.4532, 0.3204, 0.1658)

Have a look what the booklet for  
Yxy(31.4532, 0.3204, 0.1658)  
contains.

<b>Yxy(31.4063, 0.3204, 0.1656)</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(31.4063, 0.3204, 0.1656)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF39FF
RGB	255, 57, 255
RGB Percent	100%, 22%, 100%
CMY	0.0000, 0.7767, 0.0000
CMYK	0.00, 0.78, 0.00, 0.00
HSL	300°, 100%, 61%
HSV	300°, 78%, 100%
XYZ	60.7644, 31.4063, 97.4809
YIQ	138.7740, 54.4500, 103.5540

# Conversions

## Conversions Part 2

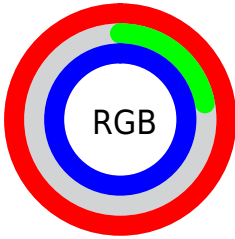
Format	Color
R <sub>Y</sub> B	255, 57, 255
Decimal	16726527
CIE Lab	62.85, 90.86, -56.81
CIE LCh	63, 107.164, 327.984
Yxy	31.4063, 0.3204, 0.1656
Android (android.graphics.Color)	4294916607 (0xFFFF39FF)
YUV	138.7740, 57.2994, 101.9302
Hunter-Lab	56.0413, 95.4713, -63.9029

# Details

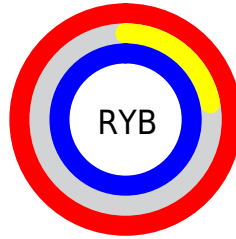
The Yxy color **31.4063, 0.3204, 0.1656** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **72.6828, 0.3012, 0.5735**, and the grayscale version is **25.4725, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.4017, 0.3184, 0.2070**, and **15.5006, 0.3171, 0.1521** is the 20% darker color. If you saturate the color by 10%, you get **29.4830, 0.3207, 0.1582**, and if you desaturate by 10%, it is **34.5807, 0.3198, 0.1774**.

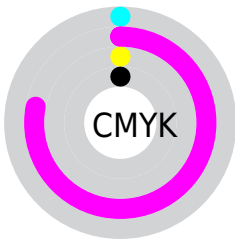
# Distribution



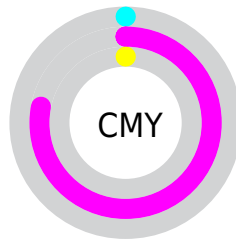
- Red (100%)
- Green (22%)
- Blue (100%)



- Red (100%)
- Yellow (22%)
- Blue (100%)



- Cyan (0%)
- Magenta (78%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (78%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.4063, 0.3204, 0.1656 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 31.4063, 0.3204, 0.1656 by changing the saturation by 10% instead.





 31.4063, 0.3204,  
0.1656


 31.4063, 0.3204,  
0.1656


308.4058, 0.3212,  
0.2374


 20.9084, 0.3191,  
0.1506


 61.8792, 0.3216,  
0.1894

 13.0571, 0.3169,  
0.1331


 82.6230, 0.3218,  
0.1991


 7.4679, 0.3133,  
0.1123


 107.5509, 0.3218,  
0.2075

 3.7564, 0.3071,  
0.0880

 137.0473, 0.3218,  
0.2149

 1.5382, 0.2963,  
0.0601

 171.4966, 0.3217,  
0.2215

 0.3154, 0.2791,  
0.0227

211.2832, 0.3216,

 0.0000, 0.2427,

0.2274

0.0000

256.7915, 0.3214,  
0.2327

■ 0.0000, 0.1556,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 31.4063, 0.3204,  
0.1656

■ 31.4063, 0.3204,  
0.1656

■ 29.4830, 0.3207,  
0.1582

■ 34.5807, 0.3198,  
0.1774

■ 28.6089, 0.3209,  
0.1547

■ 39.1918, 0.3191,  
0.1934

■ 28.4800, 0.3209,  
0.1542

■ 45.3749, 0.3182,  
0.2131

■ 53.2546, 0.3171,  
0.2356

62.9428, 0.3160,  
0.2599

74.5420, 0.3148,  
0.2850

88.1472, 0.3136,  
0.3102

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.



31.4063, 0.1855, 0.1290



31.4063, 0.3204, 0.1656



31.4063, 0.4977, 0.2302

# Triad

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



31.4063, 0.3204, 0.1656



31.4063, 0.4949, 0.5037



31.4063, 0.0859, 0.2406

# Complementary

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



31.4063, 0.3204, 0.1656



72.6828, 0.3012, 0.5735

# 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.



31.4063, 0.1324, 0.4336



31.4063, 0.3204, 0.1656



31.4063, 0.3633, 0.6179

# Square

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



31.4063, 0.3204, 0.1656



31.4063, 0.5924, 0.3920



31.4063, 0.2353, 0.6295



31.4063, 0.0831, 0.1514



# Rectangle

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



31.4063, 0.3204, 0.1656



31.4063, 0.5865, 0.2810



31.4063, 0.2353, 0.6295



31.4063, 0.0954, 0.2925

# Sweetspot

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



31.4000, 0.3204, 0.1656



68.1179, 0.3154, 0.2716



11.0080, 0.1658, 0.0861



13.7156, 0.3158, 0.2625



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.



31.4000, 0.3204, 0.1656



28.9078, 0.3208, 0.1559



26.5793, 0.4456, 0.2432



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

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



31.4000, 0.3204, 0.1656



28.9078, 0.3208, 0.1559



74.7872, 0.2685, 0.4622



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 31.4063, 0.3204, 0.1656 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

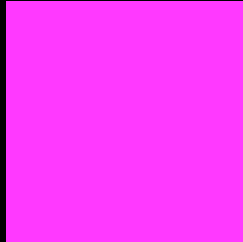
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.4063, 0.3204, 0.1656 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

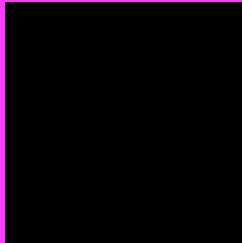
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.4063, 0.3204, 0.1656**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.4063, 0.3204, 0.1656.



This preview shows how white text looks on a background with the Yxy color 31.4063, 0.3204, 0.1656.

# 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

31.4063, 0.3204, 0.1656

### Protanopia

31.7181, 0.2095, 0.1919

### Deuteranopia

31.6321, 0.2146, 0.2083



## Tritanopia

31.2021, 0.4633, 0.3220

# Trichromacy



## Original Color

31.4063, 0.3204, 0.1656



## Protanomaly

27.1844, 0.2368, 0.1660



## Deuteranomaly

26.6455, 0.2407, 0.1729



## Tritanomaly

29.7218, 0.4093, 0.2510

# Monochromacy



## Original Color

31.4063, 0.3204, 0.1656



## Achromatopsia

25.8183, 0.3127, 0.3290



## Achromatomaly

24.0972, 0.3172, 0.2326

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.4063, 0.3204, 0.1656 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, 57, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 57, 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, 57, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 57, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 31.4063, 0.3204, 0.1656 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, 57, 255) }
```

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

```
.border{ border-color:rgb(255, 57, 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, 57, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 57, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 57, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 57,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.4063, 0.3204, 0.1656 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 57, 255) }
```

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

```
.background{ background-color: rgb(255, 57,  
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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