

# Converting Colors

$Y_{xy}(31.6670, 0.3564, 0.1988)$

Have a look what the booklet for  
Yxy(31.6670, 0.3564, 0.1988)  
contains.

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# Color

**Yxy(31.7351, 0.3564, 0.1991)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4DDC
RGB	255, 77, 220
RGB Percent	100%, 30%, 86%
CMY	0.0001, 0.6979, 0.1372
CMYK	0.00, 0.70, 0.14, 0.00
HSL	312°, 100%, 65%
HSV	312°, 70%, 100%
XYZ	56.8076, 31.7351, 70.8501
YIQ	146.5240, 60.1850, 82.2090

# Conversions

## Conversions Part 2

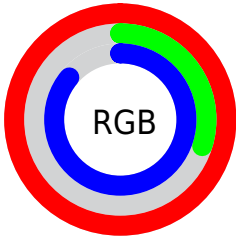
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 77, 220
Decimal	16731612
CIE <sub>Lab</sub>	63.12, 80.12, -36.89
CIE <sub>LCh</sub>	63, 88.208, 335.278
Yxy	31.7351, 0.3564, 0.1991
Android (android.graphics.Color)	4294921692 (0xFFFF4DDC)
YUV	146.5240, 36.2237, 95.1335
Hunter-Lab	56.3339, 81.4165, -35.1342

# Details

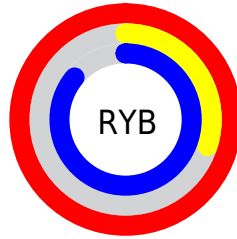
The Yxy color **31.7351, 0.3564, 0.1991** is a light color, and the websafe version is hex **FF33CC**. The color can be described as light washed magenta. A complement of this color would be **74.2559, 0.2910, 0.5176**, and the grayscale version is **28.8069, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.9452, 0.3179, 0.2178**, and **14.1859, 0.3629, 0.1773** is the 20% darker color. If you saturate the color by 10%, you get **28.5773, 0.3642, 0.1903**, and if you desaturate by 10%, it is **36.3013, 0.3486, 0.2122**.

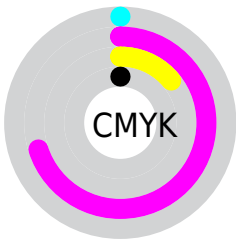
# Distribution



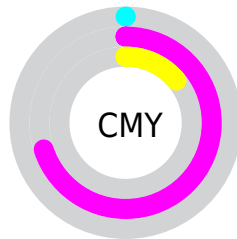
- Red (100%)
- Green (30%)
- Blue (86%)



- Red (100%)
- Yellow (30%)
- Blue (86%)



- Cyan (0%)
- Magenta (70%)
- Yellow (14%)
- Black (0%)




- Cyan (0%)
- Magenta (70%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.7351, 0.3564, 0.1991 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 31.7351, 0.3564, 0.1991 by changing the saturation by 10% instead.




 31.7351, 0.3564,  
0.1991


 31.7351, 0.3564,  
0.1991


309.9108, 0.3370,  
0.2593

 21.1592, 0.3605,  
0.1856


 62.3956, 0.3499,  
0.2198

 13.2405, 0.3653,  
0.1692


 83.2490, 0.3473,  
0.2280

 7.5943, 0.3709,  
0.1490

 108.2970, 0.3451,  
0.2350

 3.8365, 0.3775,  
0.1237

 137.9241, 0.3431,  
0.2411

 1.5825, 0.3847,  
0.0921

172.5147, 0.3413,  
0.2465

 0.3458, 0.3957,  
0.0419

212.4530, 0.3397,

 0.0000, 0.3952,

0.2513

0.0000

258.1236, 0.3383,  
0.2555

0.0000, 0.2485,  
0.0000

0.0000, 0.0000,  
0.0000

31.7351, 0.3564,  
0.1991

31.7351, 0.3564,  
0.1991

28.5773, 0.3642,  
0.1903

36.3013, 0.3486,  
0.2122

26.6493, 0.3718,  
0.1861

42.4174, 0.3411,  
0.2288

25.6747, 0.3790,  
0.1862

50.2126, 0.3341,  
0.2477

25.6578, 0.3792,  
0.1862

59.8013, 0.3277,  
0.2681

71.2880, 0.3220,  
0.2889

84.7689, 0.3170,  
0.3095

99.9961, 0.3127,  
0.3290

# Harmonies

## Analogous

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



31.7351, 0.2281, 0.1581



31.7351, 0.3564, 0.1991



31.7351, 0.4979, 0.2634

# Triad

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



31.7351, 0.3564, 0.1991



31.7351, 0.4573, 0.5172



31.7351, 0.1088, 0.2332

# Complementary

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



31.7351, 0.3564, 0.1991



74.2559, 0.2910, 0.5176

# 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.



31.7351, 0.1449, 0.3726



31.7351, 0.3564, 0.1991



31.7351, 0.3442, 0.5884

# Square

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



31.7351, 0.3564, 0.1991



31.7351, 0.5458, 0.4219



31.7351, 0.2303, 0.5410



31.7351, 0.1118, 0.1659



# Rectangle

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



31.7351, 0.3564, 0.1991



31.7351, 0.5582, 0.3126



31.7351, 0.2303, 0.5410



31.7351, 0.1158, 0.2710

# Sweetspot

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



31.7367, 0.3564, 0.1991



69.8041, 0.3226, 0.2864



15.8243, 0.1947, 0.1137



14.2343, 0.3241, 0.2806



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.



31.7367, 0.3564, 0.1991



27.6316, 0.3674, 0.1879



28.2728, 0.4736, 0.2781



18.2356, 0.3168, 0.3101



13.4309, 0.3780, 0.1856



1.3226, 0.3703, 0.1813



# Inverse Universe

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



31.7367, 0.3564, 0.1991



27.6316, 0.3674, 0.1879



77.1924, 0.2551, 0.4012



18.2356, 0.3168, 0.3101



13.4309, 0.3780, 0.1856

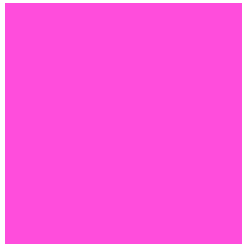


1.3226, 0.3703, 0.1813



# Previews

## White Background



This preview shows how the Yxy color 31.7351, 0.3564, 0.1991 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

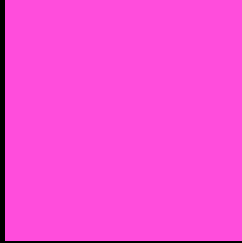
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.7351, 0.3564, 0.1991 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

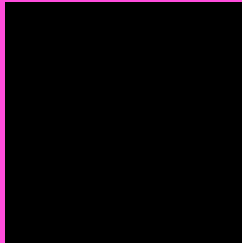
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.7351, 0.3564, 0.1991**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.7351, 0.3564, 0.1991.



This preview shows how white text looks on a background with the Yxy color 31.7351, 0.3564, 0.1991.

# 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

31.7351, 0.3564, 0.1991

### Protanopia

32.2208, 0.2113, 0.1937

### Deuteranopia

31.9709, 0.2528, 0.2469



## Tritanopia

31.6107, 0.4719, 0.3223

# Trichromacy



## Original Color

31.7351, 0.3564, 0.1991



## Protanomaly

28.1538, 0.2465, 0.1835



## Deuteranomaly

28.8031, 0.2840, 0.2164



## Tritanomaly

31.0222, 0.4307, 0.2717

# Monochromacy



## Original Color

31.7351, 0.3564, 0.1991



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

27.4142, 0.3295, 0.2592

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.7351, 0.3564, 0.1991 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, 77, 220)` looks like.

```
.text, #text, p{  
    color:rgb(255, 77, 220)  
}
```

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, 77, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 77, 220) }
```

## Border

The CSS property to change the border of an element to Yxy 31.7351, 0.3564, 0.1991 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, 77, 220) }
```

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

```
.border{ border-color:rgb(255, 77, 220) }
```

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

Here you see how a box with a 4 pixel rgb(255, 77, 220) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 77, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 77, 220);  
box-shadow:4px 4px 4px 4px rgb(255, 77,  
220) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.7351, 0.3564, 0.1991 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 77, 220) }
```

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

```
.background{ background-color: rgb(255, 77,  
220) }
```

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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