

# Converting Colors

Yxy(31.1828, 0.3204, 0.1648)

Have a look what the booklet for  
Yxy(31.1828, 0.3204, 0.1648)  
contains.

<b>Yxy(31.2124, 0.3204, 0.1649)</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(31.2124, 0.3204, 0.1649)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF37FF
RGB	255, 55, 255
RGB Percent	100%, 22%, 100%
CMY	0.0001, 0.7840, 0.0001
CMYK	0.00, 0.78, 0.00, 0.00
HSL	300°, 100%, 61%
HSV	300°, 78%, 100%
XYZ	60.6456, 31.2124, 97.4228
YIQ	137.6000, 55.0000, 104.6000

# Conversions

## Conversions Part 2

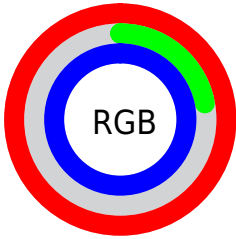
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 55, 255
Decimal	16726015
CIE Lab	62.69, 91.28, -57.06
CIE LCh	63, 107.648, 327.994
Yxy	31.2124, 0.3204, 0.1649
Android (android.graphics.Color)	4294916095 (0xFFFF37FF)
YUV	137.6000, 57.8782, 102.9598
Hunter-Lab	55.8681, 95.9951, -64.2824

# Details

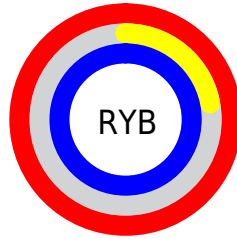
The Yxy color **31.2124, 0.3204, 0.1649** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **72.6021, 0.3012, 0.5750**, and the grayscale version is **25.0316, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.1472, 0.3185, 0.2063**, and **15.5006, 0.3171, 0.1521** is the 20% darker color. If you saturate the color by 10%, you get **29.3808, 0.3207, 0.1578**, and if you desaturate by 10%, it is **34.2969, 0.3199, 0.1764**.

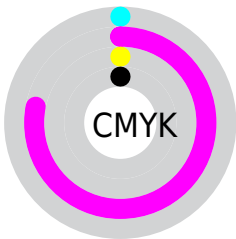
# Distribution



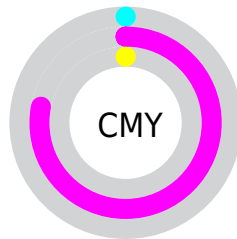
- Red (100%)
- Green (22%)
- Blue (100%)



- 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 31.2124, 0.3204, 0.1649 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 31.2124, 0.3204, 0.1649 by changing the saturation by 10% instead.





 31.2124, 0.3204,  
0.1649


 31.2124, 0.3204,  
0.1649


307.5157, 0.3212,  
0.2370


 20.7606, 0.3191,  
0.1499


 61.5743, 0.3216,  
0.1888

 12.9491, 0.3169,  
0.1323

 82.2533, 0.3218,  
0.1985


 7.3935, 0.3132,  
0.1115

 107.1101, 0.3219,  
0.2069

 3.7094, 0.3069,  
0.0871

 136.5291, 0.3218,  
0.2144

 1.5124, 0.2960,  
0.0593

 170.8948, 0.3217,  
0.2210

 0.2974, 0.2788,  
0.0215

210.5915, 0.3216,

 0.0000, 0.2418,

0.2269

0.0000

256.0037, 0.3214,  
0.2322

■ 0.0000, 0.1537,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 31.2124, 0.3204,  
0.1649

■ 31.2124, 0.3204,  
0.1649

■ 29.3808, 0.3207,  
0.1578

■ 34.2969, 0.3199,  
0.1764


■ 28.5614, 0.3209,  
0.1545

■ 38.7991, 0.3191,  
0.1921


■ 28.4726, 0.3209,  
0.1541

■ 44.8635, 0.3182,  
0.2116

■ 52.6156, 0.3172,  
0.2339

 62.1682, 0.3160,  
0.2581

 73.6245, 0.3149,  
0.2832

 87.0797, 0.3137,  
0.3084

99.9962, 0.3127,  
0.3290

99.9966, 0.3127,  
0.3290

# Harmonies

## Analogous

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



31.2124, 0.1849, 0.1283



31.2124, 0.3204, 0.1649



31.2124, 0.4989, 0.2297

# Triad

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



31.2124, 0.3204, 0.1649



31.2124, 0.4953, 0.5041



31.2124, 0.0850, 0.2399

# Complementary

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



31.2124, 0.3204, 0.1649



72.6021, 0.3012, 0.5750

# 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.



31.2124, 0.1314, 0.4342



31.2124, 0.3204, 0.1649



31.2124, 0.3627, 0.6192

# Square

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



31.2124, 0.3204, 0.1649



31.2124, 0.5934, 0.3916



31.2124, 0.2344, 0.6318



31.2124, 0.0823, 0.1505



# Rectangle

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



31.2124, 0.3204, 0.1649



31.2124, 0.5882, 0.2805



31.2124, 0.2344, 0.6318



31.2124, 0.0944, 0.2920

# Sweetspot

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



31.2138, 0.3204, 0.1649



66.9737, 0.3155, 0.2691



11.1020, 0.1655, 0.0868



13.4969, 0.3159, 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.



31.2138, 0.3204, 0.1649



28.8268, 0.3208, 0.1555



26.4789, 0.4423, 0.2400



18.3003, 0.3138, 0.3056



14.8796, 0.3209, 0.1541



1.4488, 0.3209, 0.1541



# Inverse Universe

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



24.2744, 0.5883, 0.3298



21.6456, 0.6326, 0.3299



74.5823, 0.2698, 0.4683



17.9871, 0.3295, 0.3290



11.1088, 0.6401, 0.3300



1.0816, 0.6400, 0.3300



# Previews

## White Background



This preview shows how the Yxy color 31.2124, 0.3204, 0.1649 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

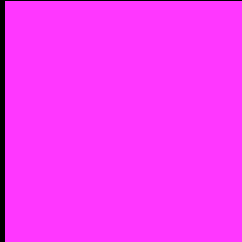
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.2124, 0.3204, 0.1649 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

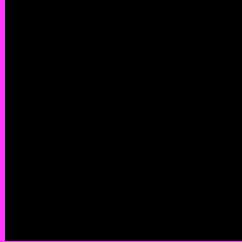
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.2124, 0.3204, 0.1649**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.2124, 0.3204, 0.1649.



This preview shows how white text looks on a background with the Yxy color 31.2124, 0.3204, 0.1649.

# 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

31.2124, 0.3204, 0.1649

### Protanopia

31.6579, 0.2090, 0.1918

### Deuteranopia

31.5740, 0.2141, 0.2082



## Tritanopia

30.9615, 0.4652, 0.3221

# Trichromacy



## Original Color

31.2124, 0.3204, 0.1649



## Protanomaly

26.8524, 0.2359, 0.1646



## Deuteranomaly

26.5445, 0.2399, 0.1726



## Tritanomaly

29.5148, 0.4109, 0.2512

# Monochromacy



## Original Color

31.2124, 0.3204, 0.1649



## Achromatopsia

25.4152, 0.3127, 0.3290



## Achromatomaly

23.8851, 0.3173, 0.2313

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.2124, 0.3204, 0.1649 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, 55, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 55, 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, 55, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 55, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 31.2124, 0.3204, 0.1649 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, 55, 255) }
```

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

```
.border{ border-color:rgb(255, 55, 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, 55, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 55, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 55, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 55,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.2124, 0.3204, 0.1649 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 55, 255) }
```

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

```
.background{ background-color: rgb(255, 55,  
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