

# Converting Colors

$Yxy(31.8003, 0.3324, 0.2299)$

Have a look what the booklet for  
Yxy(31.8003, 0.3324, 0.2299)  
contains.

<b>Yxy(31.7558, 0.3322, 0.2290)</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(31.7558, 0.3322, 0.2290)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DA74CC
RGB	218, 116, 204
RGB Percent	85%, 45%, 80%
CMY	0.1450, 0.5452, 0.1999
CMYK	0.00, 0.47, 0.06, 0.14
HSL	308°, 58%, 65%
HSV	308°, 47%, 86%
XYZ	46.0667, 31.7558, 60.8491
YIQ	156.5300, 32.5440, 48.9920

# Conversions

## Conversions Part 2

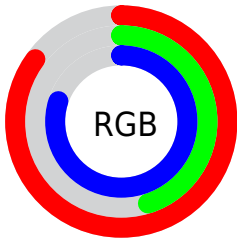
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	218, 116, 204
Decimal	14316748
CIE <sub>Lab</sub>	63.14, 51.63, -28.29
CIE <sub>LCh</sub>	63, 58.872, 331.281
Yxy	31.7558, 0.3322, 0.2290
Android (android.graphics.Color)	4292506828 (0xFFDA74CC)
YUV	156.5300, 23.4027, 53.9092
Hunter-Lab	56.3523, 47.3032, -24.5746

# Details

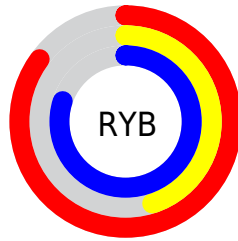
The Yxy color **31.7558, 0.3322, 0.2290** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **55.4793, 0.2983, 0.4559**, and the grayscale version is **33.3770, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.6058, 0.3166, 0.2469**, and **13.2243, 0.3352, 0.2022** is the 20% darker color. If you saturate the color by 10%, you get **27.1659, 0.3374, 0.2108**, and if you desaturate by 10%, it is **37.5307, 0.3273, 0.2494**.

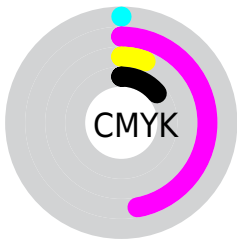
# Distribution



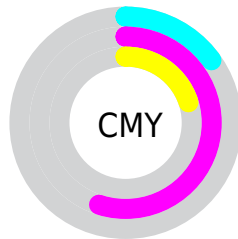
- Red (85%)
- Green (45%)
- Blue (80%)



- Red (85%)
- Yellow (45%)
- Blue (80%)



- Cyan (0%)
- Magenta (47%)
- Yellow (6%)
- Black (14%)




- Cyan (15%)
- Magenta (55%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.7558, 0.3322, 0.2290 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 31.7558, 0.3322, 0.2290 by changing the saturation by 10% instead.




 31.7558, 0.3322,  
0.2290


 31.7558, 0.3322,  
0.2290


310.0053, 0.3238,  
0.2774

 21.1750, 0.3339,  
0.2175


 62.4281, 0.3295,  
0.2462

 13.2520, 0.3358,  
0.2031


 83.2884, 0.3283,  
0.2528

 7.6023, 0.3378,  
0.1847

 108.3440, 0.3273,  
0.2584

 3.8415, 0.3399,  
0.1605

137.9793, 0.3265,  
0.2632

 1.5853, 0.3411,  
0.1277

172.5787, 0.3257,  
0.2675

 0.3477, 0.3452,  
0.0654

212.5265, 0.3250,

 0.0000, 0.3165,

0.2712

0.0000

258.2073, 0.3243,  
0.2745

0.0000, 0.0000,  
0.0000

31.7558, 0.3322,  
0.2290

31.7558, 0.3322,  
0.2290

27.1659, 0.3374,  
0.2108

37.5307, 0.3273,  
0.2494

23.6728, 0.3427,  
0.1957

44.5618, 0.3227,  
0.2711

21.1831, 0.3480,  
0.1846


52.9200, 0.3186,  
0.2930


19.5862, 0.3531,  
0.1779


62.6696, 0.3149,  
0.3147

18.7386, 0.3578,  
0.1756


73.8705, 0.3117,  
0.3356

 18.5460, 0.3593,  
0.1753

 86.5795, 0.3090,  
0.3553

 91.8636, 0.3070,  
0.3603

 92.0282, 0.3053,  
0.3571

 92.1957, 0.3037,  
0.3540

# Harmonies

## Analogous

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



31.7558, 0.2449, 0.1991



31.7558, 0.3322, 0.2290



31.7558, 0.4268, 0.2786

# Triad

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



31.7558, 0.3322, 0.2290



31.7558, 0.4391, 0.4673



31.7558, 0.1642, 0.2789

# Complementary

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



31.7558, 0.3322, 0.2290



55.4793, 0.2983, 0.4559

# 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.



31.7558, 0.2025, 0.3761



31.7558, 0.3322, 0.2290



31.7558, 0.3602, 0.5022

# Square

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



31.7558, 0.3322, 0.2290



31.7558, 0.4890, 0.4051



31.7558, 0.2736, 0.4710



31.7558, 0.1599, 0.2181



# Rectangle

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



31.7558, 0.3322, 0.2290



31.7558, 0.4735, 0.3185



31.7558, 0.2736, 0.4710



31.7558, 0.1730, 0.3080

# Sweetspot

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



31.7573, 0.3322, 0.2290



78.9884, 0.3176, 0.2989



22.2631, 0.2347, 0.1863



16.2912, 0.3184, 0.2941



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.



31.7573, 0.3322, 0.2290



38.9149, 0.3372, 0.2113



29.7091, 0.3917, 0.2842



13.2425, 0.3159, 0.3091



11.1198, 0.3587, 0.1750



0.7291, 0.3516, 0.1711



# Inverse Universe

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



31.7573, 0.3322, 0.2290



38.9149, 0.3372, 0.2113



57.1885, 0.2702, 0.3808



13.2425, 0.3159, 0.3091



11.1198, 0.3587, 0.1750



0.7291, 0.3516, 0.1711



# Previews

## White Background



This preview shows how the Yxy color 31.7558, 0.3322, 0.2290 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

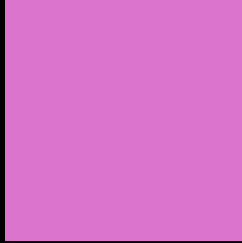
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.7558, 0.3322, 0.2290 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

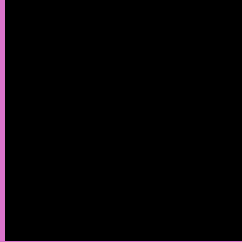
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.7558, 0.3322, 0.2290**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.7558, 0.3322, 0.2290.



This preview shows how white text looks on a background with the Yxy color 31.7558, 0.3322, 0.2290.

# 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

31.7558, 0.3322, 0.2290

### Protanopia

32.2627, 0.2321, 0.2206

### Deuteranopia

32.1397, 0.2668, 0.2617



## Tritanopia

31.5604, 0.3942, 0.3166

# Trichromacy



## Original Color

31.7558, 0.3322, 0.2290



## Protanomaly

30.7683, 0.2610, 0.2204



## Deuteranomaly

31.0050, 0.2881, 0.2460



## Tritanomaly

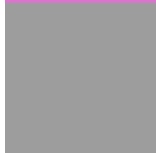
31.4577, 0.3716, 0.2824

# Monochromacy



## Original Color

31.7558, 0.3322, 0.2290



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

31.9857, 0.3200, 0.2850

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.7558, 0.3322, 0.2290 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(218, 116, 204)` looks like.

```
.text, #text, p{  
    color:rgb(218, 116, 204)  
}
```

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(218, 116, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 116, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 31.7558, 0.3322, 0.2290 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(218, 116, 204) }
```

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

```
.border{ border-color:rgb(218, 116, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 116, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 116, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 116, 204);  
box-shadow:4px 4px 4px 4px rgb(218, 116,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.7558, 0.3322, 0.2290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 116, 204) }
```

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

```
.background{ background-color: rgb(218,  
116, 204) }
```

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