

# Converting Colors

$Y_{xy}(31.2504, 0.3177, 0.2221)$

Have a look what the booklet for  
Yxy(31.2504, 0.3177, 0.2221)  
contains.

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# Color

**Yxy(31.3116, 0.3177, 0.2226)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D276D2
RGB	210, 118, 210
RGB Percent	82%, 46%, 82%
CMY	0.1765, 0.5372, 0.1765
CMYK	0.00, 0.44, 0.00, 0.18
HSL	300°, 51%, 64%
HSV	300°, 44%, 82%
XYZ	44.6887, 31.3116, 64.6628
YIQ	155.9960, 25.3000, 48.1160

# Conversions

## Conversions Part 2

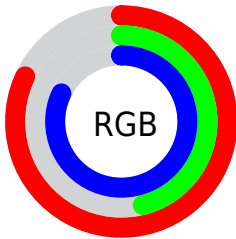
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	210, 118, 210
Decimal	13792978
CIE <sub>Lab</sub>	62.77, 49.27, -32.30
CIE <sub>LCh</sub>	63, 58.916, 326.753
Yxy	31.3116, 0.3177, 0.2226
Android (android.graphics.Color)	4291983058 (0xFFD276D2)
YUV	155.9960, 26.6240, 47.3615
Hunter-Lab	55.9568, 44.6308, -29.3449

# Details

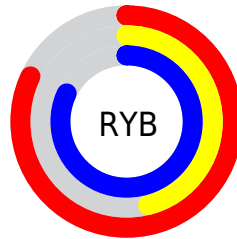
The Yxy color **31.3116, 0.3177, 0.2226** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **51.2556, 0.3064, 0.4647**, and the grayscale version is **33.1156, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.3671, 0.3165, 0.2488**, and **13.0172, 0.3175, 0.1956** is the 20% darker color. If you saturate the color by 10%, you get **26.9048, 0.3187, 0.2018**, and if you desaturate by 10%, it is **36.8221, 0.3166, 0.2457**.

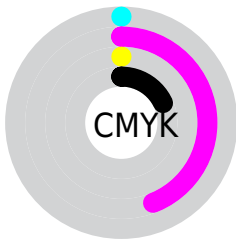
# Distribution



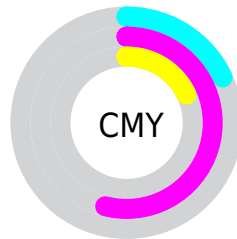
- Red (82%)
- Green (46%)
- Blue (82%)



- Red (82%)
- Yellow (46%)
- Blue (82%)



- Cyan (0%)
- Magenta (44%)
- Yellow (0%)
- Black (18%)




- Cyan (18%)
- Magenta (54%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.3116, 0.3177, 0.2226 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 31.3116, 0.3177, 0.2226 by changing the saturation by 10% instead.





 31.3116, 0.3177,  
0.2226


 31.3116, 0.3177,  
0.2226


307.9713, 0.3170,  
0.2740

 20.8362, 0.3173,  
0.2105


 61.7303, 0.3178,  
0.2408

 13.0044, 0.3166,  
0.1954


 82.4425, 0.3178,  
0.2477

 7.4315, 0.3150,  
0.1762


 107.3357, 0.3177,  
0.2537

 3.7334, 0.3119,  
0.1511

136.7943, 0.3175,  
0.2588

 1.5256, 0.3053,  
0.1177

171.2028, 0.3174,  
0.2633

 0.3066, 0.2962,  
0.0541


210.9456, 0.3173,


 0.0000, 0.2335,


0.2673


0.0000

256.4069, 0.3171,  
0.2708


 0.0000, 0.0000,  
0.0000


 31.3116, 0.3177,  
0.2226

 31.3116, 0.3177,  
0.2226

 26.9048, 0.3187,  
0.2018

 36.8221, 0.3166,  
0.2457


 23.5237, 0.3195,  
0.1842


 43.4993, 0.3155,  
0.2702


 21.0866, 0.3201,  
0.1706


 51.4063, 0.3143,  
0.2952

 19.4977, 0.3206,  
0.1612


 60.6006, 0.3131,  
0.3198

 18.6411, 0.3208,  
0.1559

 71.1359, 0.3120,  
0.3436

 18.3529, 0.3209,  
0.1541

 83.0630, 0.3110,  
0.3660

 89.8761, 0.3105,  
0.3772

 89.8763, 0.3105,  
0.3772

 89.8766, 0.3105,  
0.3772

# Harmonies

## Analogous

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



31.3116, 0.2336, 0.1961



31.3116, 0.3177, 0.2226



31.3116, 0.4142, 0.2698

# Triad

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



31.3116, 0.3177, 0.2226



31.3116, 0.4496, 0.4593



31.3116, 0.1671, 0.2913

# Complementary

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



31.3116, 0.3177, 0.2226



51.2556, 0.3064, 0.4647

# 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.



31.3116, 0.2108, 0.3925



31.3116, 0.3177, 0.2226



31.3116, 0.3733, 0.5012

# Square

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



31.3116, 0.3177, 0.2226



31.3116, 0.4934, 0.3952



31.3116, 0.2861, 0.4817



31.3116, 0.1579, 0.2242



# Rectangle

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



31.3116, 0.3177, 0.2226



31.3116, 0.4657, 0.3090



31.3116, 0.2861, 0.4817



31.3116, 0.1777, 0.3224

# Sweetspot

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



31.3130, 0.3177, 0.2226



80.6424, 0.3142, 0.2968



21.8282, 0.2312, 0.1959



16.6320, 0.3145, 0.2913



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.



31.3130, 0.3177, 0.2226



41.8748, 0.3187, 0.2022



29.3971, 0.3670, 0.2704



12.0090, 0.3138, 0.3061



11.1946, 0.3209, 0.1541



0.6259, 0.3209, 0.1541



# Inverse Universe

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



27.9692, 0.4278, 0.3293



36.0096, 0.4695, 0.3295



52.5723, 0.2804, 0.3975



11.8083, 0.3291, 0.3290



8.3578, 0.6401, 0.3300



0.4673, 0.6400, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 31.3116, 0.3177, 0.2226 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

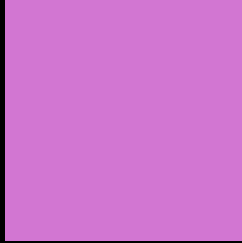
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.3116, 0.3177, 0.2226 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

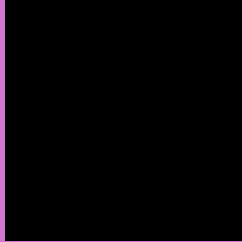
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.3116, 0.3177, 0.2226**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.3116, 0.3177, 0.2226.

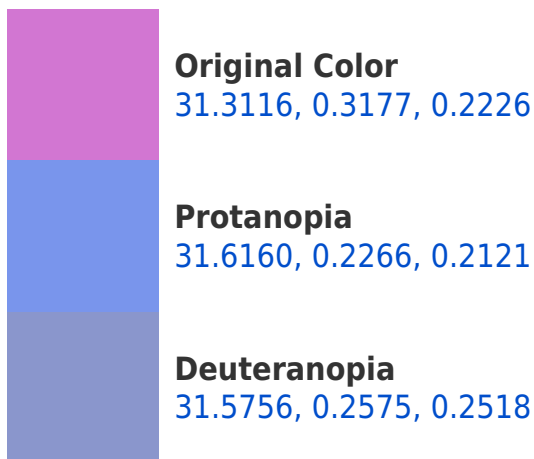


This preview shows how white text looks on a background with the Yxy color 31.3116, 0.3177, 0.2226.

# 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





## Tritanopia

31.3148, 0.3806, 0.3161

# Trichromacy



## Original Color

31.3116, 0.3177, 0.2226



## Protanomaly

30.4953, 0.2520, 0.2129



## Deuteranomaly

30.5257, 0.2766, 0.2376



## Tritanomaly

31.2075, 0.3574, 0.2797

# Monochromacy



## Original Color

31.3116, 0.3177, 0.2226



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

31.7107, 0.3149, 0.2820

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.3116, 0.3177, 0.2226 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(210, 118, 210)` looks like.

```
.text, #text, p{  
    color:rgb(210, 118, 210)  
}
```

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(210, 118, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 118, 210) }
```

## Border

The CSS property to change the border of an element to Yxy 31.3116, 0.3177, 0.2226 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(210, 118, 210) }
```

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

```
.border{ border-color:rgb(210, 118, 210) }
```

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

Here you see how a box with a 4 pixel `rgb(210, 118, 210)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 118, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 118, 210);  
box-shadow:4px 4px 4px 4px rgb(210, 118,  
210) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.3116, 0.3177, 0.2226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 118, 210) }
```

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

```
.background{ background-color: rgb(210,  
118, 210) }
```

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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