

# Converting Colors

$Y_{xy}(28.7507, 0.2506, 0.1519)$

Have a look what the booklet for  
Yxy(28.7507, 0.2506, 0.1519)  
contains.

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# Color

**Yxy(27.6718, 0.2626, 0.1629)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C164FF
RGB	193, 100, 255
RGB Percent	76%, 39%, 100%
CMY	0.2429, 0.6080, 0.0000
CMYK	0.24, 0.61, 0.00, 0.00
HSL	276°, 100%, 70%
HSV	276°, 61%, 100%
XYZ	44.6078, 27.6718, 97.5902
YIQ	145.4770, 5.6730, 67.9210

# Conversions

## Conversions Part 2

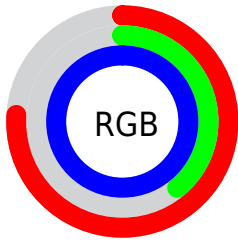
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	193, 100, 255
Decimal	12674303
CIE Lab	59.59, 62.74, -62.50
CIE LCh	60, 88.559, 315.108
Yxy	27.6718, 0.2626, 0.1629
Android (android.graphics.Color)	4290864383 (0xFFC164FF)
YUV	145.4770, 53.9948, 41.6777
Hunter-Lab	52.6040, 59.3098, -73.1712

# Details

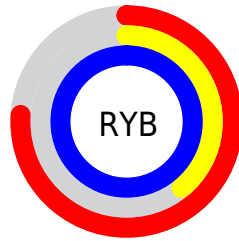
The Yxy color **27.6718, 0.2626, 0.1629** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **80.1062, 0.3355, 0.5078**, and the grayscale version is **28.2929, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.5453, 0.3156, 0.2315**, and **10.9835, 0.2444, 0.1280** is the 20% darker color. If you saturate the color by 10%, you get **22.2311, 0.2517, 0.1398**, and if you desaturate by 10%, it is **34.7367, 0.2732, 0.1893**.

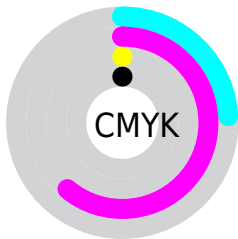
# Distribution



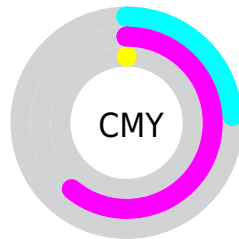
- Red (76%)
- Green (39%)
- Blue (100%)



- Red (76%)
- Yellow (39%)
- Blue (100%)



- Cyan (24%)
- Magenta (61%)
- Yellow (0%)
- Black (0%)




- Cyan (24%)
- Magenta (61%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.6718, 0.2626, 0.1629 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 27.6718, 0.2626, 0.1629 by changing the saturation by 10% instead.



 27.6718, 0.2626,  
0.1629


 27.6718, 0.2626,  
0.1629


290.8953, 0.2917,  
0.2383


 18.0784, 0.2546,  
0.1468


 55.9600, 0.2738,  
0.1883


 11.0063, 0.2442,  
0.1279


 75.4236, 0.2778,  
0.1984

 6.0711, 0.2302,  
0.1055


 98.9461, 0.2812,  
0.2073

 2.8883, 0.2108,  
0.0793

 126.9119, 0.2840,  
0.2150

 1.0737, 0.1832,  
0.0499

159.7053, 0.2864,  
0.2219

 0.0000, 0.1465,  
0.0000

197.7107, 0.2884,

 0.0000, 0.0787,


0.2280


0.0000

241.3126, 0.2901,  
0.2334


 0.0000, 0.0000,  
0.0000

 27.6718, 0.2626,  
0.1629


 27.6718, 0.2626,  
0.1629


 22.2311, 0.2517,  
0.1398

 34.7367, 0.2732,  
0.1893


 18.2613, 0.2408,  
0.1211


 43.5536, 0.2830,  
0.2175

 15.5839, 0.2304,  
0.1076

 54.2408, 0.2919,  
0.2463

 14.0024, 0.2215,  
0.0994

 66.9054, 0.2998,  
0.2747

 81.6459, 0.3066,  
0.3017

98.5544, 0.3123,  
0.3271

99.9995, 0.3127,  
0.3290

# Harmonies

## Analogous

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



27.6718, 0.1641, 0.1406



27.6718, 0.2626, 0.1629



27.6718, 0.4090, 0.2138

# Triad

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



27.6718, 0.2626, 0.1629



27.6718, 0.5271, 0.4529



27.6718, 0.1208, 0.3167

# Complementary

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



27.6718, 0.2626, 0.1629



80.1062, 0.3355, 0.5078

# 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.



27.6718, 0.1911, 0.5017



27.6718, 0.2626, 0.1629



27.6718, 0.4220, 0.5535

# Square

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



27.6718, 0.2626, 0.1629



27.6718, 0.5828, 0.3622



27.6718, 0.3025, 0.6047



27.6718, 0.0995, 0.1984



# Rectangle

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



27.6718, 0.2626, 0.1629



27.6718, 0.5061, 0.2595



27.6718, 0.3025, 0.6047



27.6718, 0.1382, 0.3749

# Sweetspot

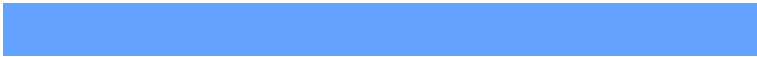
The Sweet Spot groups the original color and five complimentary colors.



27.6729, 0.2626, 0.1629



70.8162, 0.3018, 0.2824



35.7607, 0.2111, 0.2084



14.2877, 0.2997, 0.2743



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.



27.6729, 0.2626, 0.1629



21.2361, 0.2493, 0.1352



36.6283, 0.3340, 0.1991



17.9172, 0.3074, 0.3051



7.4063, 0.2231, 0.1002



0.7847, 0.2339, 0.1062



# Inverse Universe

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



32.9728, 0.4252, 0.2680



27.4879, 0.4618, 0.2626



75.4711, 0.2978, 0.5092



18.1073, 0.3231, 0.3195



11.6364, 0.5386, 0.2741



1.1539, 0.5084, 0.2575



# Previews

## White Background



This preview shows how the Yxy color 27.6718, 0.2626, 0.1629 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

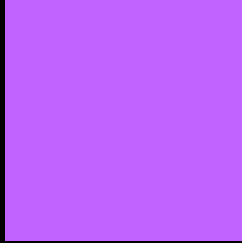
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.6718, 0.2626, 0.1629 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

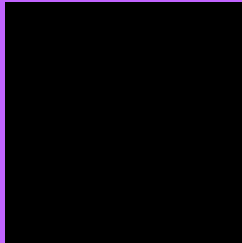
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.6718, 0.2626, 0.1629**

## Background



This preview shows how black text looks on a background with the Yxy color 27.6718, 0.2626, 0.1629.

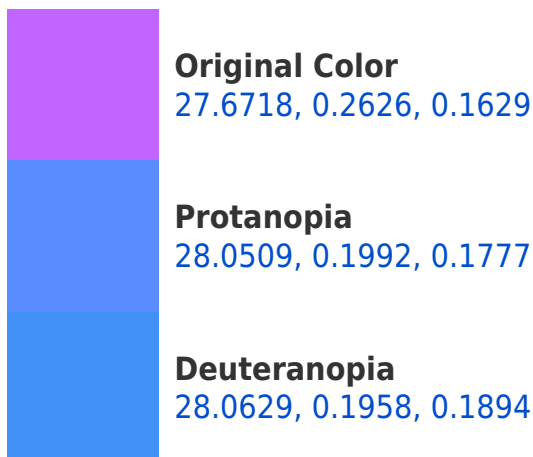


This preview shows how white text looks on a background with the Yxy color 27.6718, 0.2626, 0.1629.

# 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

27.4542, 0.3503, 0.3144

# Trichromacy



## Original Color

27.6718, 0.2626, 0.1629



## Protanomaly

26.3229, 0.2148, 0.1664



## Deuteranomaly

25.9848, 0.2101, 0.1726



## Tritanomaly

26.6756, 0.3145, 0.2444

# Monochromacy



## Original Color

27.6718, 0.2626, 0.1629



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

26.8847, 0.2922, 0.2493

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.6718, 0.2626, 0.1629 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(193, 100, 255)` looks like.

```
.text, #text, p{  
    color:rgb(193, 100, 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(193, 100, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 100, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 27.6718, 0.2626, 0.1629 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(193, 100, 255) }
```

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

```
.border{ border-color:rgb(193, 100, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(193, 100, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 100, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 100, 255);  
box-shadow:4px 4px 4px 4px rgb(193, 100,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.6718, 0.2626, 0.1629 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 100, 255) }
```

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

```
.background{ background-color: rgb(193,  
100, 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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