

# Converting Colors

$Y_{xy}(29.6552, 0.2742, 0.1718)$

Have a look what the booklet for  
Yxy(29.6552, 0.2742, 0.1718)  
contains.

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# Color

**Yxy(29.7663, 0.2749, 0.1725)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CC68FC
RGB	204, 104, 252
RGB Percent	80%, 41%, 99%
CMY	0.1998, 0.5923, 0.0117
CMYK	0.19, 0.59, 0.00, 0.01
HSL	281°, 96%, 70%
HSV	281°, 59%, 99%
XYZ	47.4363, 29.7663, 95.3557
YIQ	150.7720, 12.0920, 67.2280

# Conversions

## Conversions Part 2

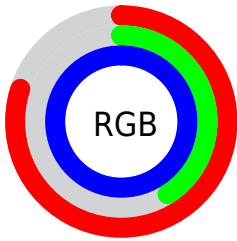
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">204, 104, 252</a>
Decimal	<a href="#">13396220</a>
CIELab	<a href="#">61.45, 62.76, -57.81</a>
CIELCh	<a href="#">61, 85.330, 317.352</a>
Yxy	<a href="#">29.7663, 0.2749, 0.1725</a>
Android (android.graphics.Color)	<a href="#">4291586300 (0xFFCC68FC)</a>
YUV	<a href="#">150.7720, 49.9054, 46.6810</a>
Hunter-Lab	<a href="#">54.5585, 59.7207, -65.4343</a>

# Details

The Yxy color **29.7663, 0.2749, 0.1725** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **77.2989, 0.3286, 0.5055**, and the grayscale version is **30.6219, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.2763, 0.3171, 0.2357**, and **12.1650, 0.2595, 0.1387** is the 20% darker color. If you saturate the color by 10%, you get **24.3081, 0.2661, 0.1501**, and if you desaturate by 10%, it is **36.8026, 0.2833, 0.1980**.

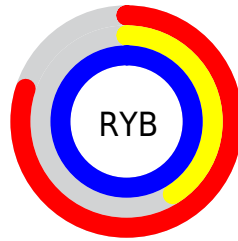
# Distribution



Red (80%)

Green (41%)

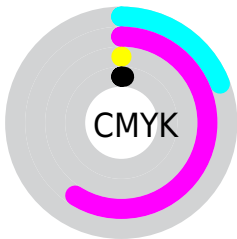
Blue (99%)



Red (80%)

Yellow (41%)

Blue (99%)

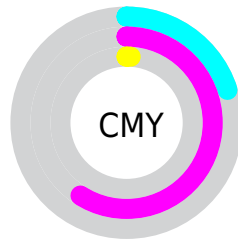


Cyan (19%)

Magenta (59%)

Yellow (0%)

Black (1%)



Cyan (20%)

Magenta (59%)

Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.7663, 0.2749, 0.1725 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 29.7663, 0.2749, 0.1725 by changing the saturation by 10% instead.





 29.7663, 0.2749,  
0.1725


 29.7663, 0.2749,  
0.1725

300.8136, 0.2975,  
0.2437

 19.6613, 0.2685,  
0.1572


 59.2924, 0.2837,  
0.1966

 12.1491, 0.2601,  
0.1390


 79.4823, 0.2869,  
0.2061

 6.8453, 0.2486,  
0.1172


 103.8025, 0.2895,  
0.2145

 3.3655, 0.2323,  
0.0913

 132.6376, 0.2916,  
0.2218

 1.3254, 0.2085,  
0.0612

166.3718, 0.2934,  
0.2282

 0.1608, 0.1752,  
0.0141

205.3896, 0.2950,

 0.0000, 0.1164,

0.2340

0.0000

250.0754, 0.2963,  
0.2391

0.0000, 0.0000,  
0.0000

29.7663, 0.2749,  
0.1725

29.7663, 0.2749,  
0.1725

24.3081, 0.2661,  
0.1501

36.8026, 0.2833,  
0.1980

20.2838, 0.2572,  
0.1319

45.5366, 0.2910,  
0.2253

17.5282, 0.2484,  
0.1186

56.0807, 0.2978,  
0.2532

15.8011, 0.2401,  
0.1100

68.5359, 0.3038,  
0.2807

15.6180, 0.2391,  
0.1091

82.9961, 0.3089,  
0.3072

99.4396, 0.3132,  
0.3318

99.8095, 0.3144,  
0.3318

# Harmonies

## Analogous

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



29.7663, 0.1761, 0.1486



29.7663, 0.2749, 0.1725



29.7663, 0.4150, 0.2239

# Triad

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



29.7663, 0.2749, 0.1725



29.7663, 0.5140, 0.4593



29.7663, 0.1264, 0.3079

# Complementary

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



29.7663, 0.2749, 0.1725



77.2989, 0.3286, 0.5055

# 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.



29.7663, 0.1919, 0.4774



29.7663, 0.2749, 0.1725



29.7663, 0.4131, 0.5513

# Square

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



29.7663, 0.2749, 0.1725



29.7663, 0.5691, 0.3708



29.7663, 0.2980, 0.5857



29.7663, 0.1075, 0.2002



# Rectangle

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



29.7663, 0.2749, 0.1725



29.7663, 0.5039, 0.2692



29.7663, 0.2980, 0.5857



29.7663, 0.1426, 0.3605

# Sweetspot

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



29.7675, 0.2749, 0.1725



71.4183, 0.3042, 0.2827



32.8551, 0.2115, 0.2001



14.4351, 0.3026, 0.2748



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.



29.7675, 0.2749, 0.1725



24.3524, 0.2649, 0.1475



36.1564, 0.3432, 0.2103



17.2263, 0.3086, 0.3053



8.2173, 0.2405, 0.1098



0.8183, 0.2502, 0.1152



# Inverse Universe

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



32.8559, 0.4340, 0.2809



28.2283, 0.4724, 0.2768



74.1485, 0.2940, 0.4903



17.3179, 0.3243, 0.3213



11.1188, 0.5680, 0.2902

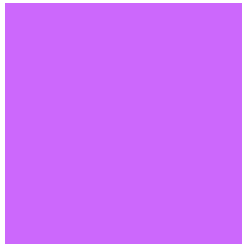


1.0483, 0.5345, 0.2718



# Previews

## White Background



This preview shows how the Yxy color 29.7663, 0.2749, 0.1725 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

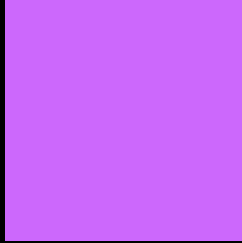
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.7663, 0.2749, 0.1725 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

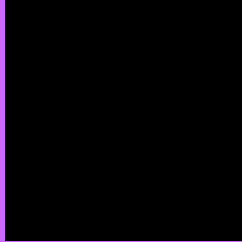
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.7663, 0.2749, 0.1725**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.7663, 0.2749, 0.1725.



This preview shows how white text looks on a background with the Yxy color 29.7663, 0.2749, 0.1725.

# 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

29.7663, 0.2749, 0.1725

### Protanopia

30.1234, 0.2055, 0.1858

### Deuteranopia

30.0898, 0.2068, 0.2005



## Tritanopia

29.6286, 0.3623, 0.3152

# Trichromacy



## Original Color

29.7663, 0.2749, 0.1725



## Protanomaly

28.4394, 0.2234, 0.1756



## Deuteranomaly

28.2542, 0.2240, 0.1841



## Tritanomaly

28.9223, 0.3273, 0.2516

# Monochromacy



## Original Color

29.7663, 0.2749, 0.1725



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

29.2271, 0.2977, 0.2545

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.7663, 0.2749, 0.1725 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(204, 104, 252)` looks like.

```
.text, #text, p{  
    color:rgb(204, 104, 252)  
}
```

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(204, 104, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 104, 252) }
```

## Border

The CSS property to change the border of an element to Yxy 29.7663, 0.2749, 0.1725 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(204, 104, 252) }
```

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

```
.border{ border-color:rgb(204, 104, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 104, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 104, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 104, 252);  
box-shadow:4px 4px 4px 4px rgb(204, 104,  
252) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.7663, 0.2749, 0.1725 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 104, 252) }
```

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

```
.background{ background-color: rgb(204,  
104, 252) }
```

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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