

# Converting Colors

$Y_{xy}(29.7558, 0.2737, 0.1694)$

Have a look what the booklet for  
Yxy(29.7558, 0.2737, 0.1694)  
contains.

<b>Yxy(29.7019, 0.2734, 0.1692)</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(29.7019, 0.2734, 0.1692)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CD66FF
RGB	205, 102, 255
RGB Percent	80%, 40%, 100%
CMY	0.1959, 0.6002, 0.0000
CMYK	0.20, 0.60, 0.00, 0.00
HSL	280°, 100%, 70%
HSV	280°, 60%, 100%
XYZ	47.9935, 29.7019, 97.8477
YIQ	150.2390, 12.2750, 69.4190

# Conversions

## Conversions Part 2

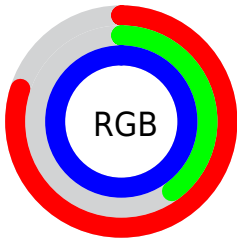
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	205, 102, 255
Decimal	13461247
CIE <sub>Lab</sub>	61.40, 64.55, -59.56
CIE <sub>LCh</sub>	61, 87.830, 317.303
Yxy	29.7019, 0.2734, 0.1692
Android (android.graphics.Color)	4291651327 (0xFFCD66FF)
YUV	150.2390, 51.6472, 48.0254
Hunter-Lab	54.4994, 61.8173, -68.2990

# Details

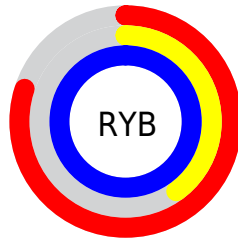
The Yxy color **29.7019, 0.2734, 0.1692** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **79.1447, 0.3288, 0.5094**, and the grayscale version is **30.3734, 0.3127, 0.3290**.

A 20% lighter version of the original color is **52.9337, 0.3171, 0.2347**, and **12.1110, 0.2587, 0.1359** is the 20% darker color. If you saturate the color by 10%, you get **24.2854, 0.2645, 0.1473**, and if you desaturate by 10%, it is **36.7186, 0.2819, 0.1944**.

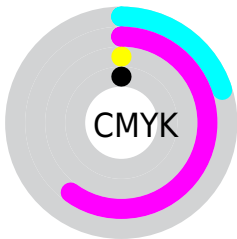
# Distribution



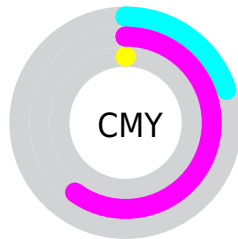
- Red (80%)
- Green (40%)
- Blue (100%)



- Red (80%)
- Yellow (40%)
- Blue (100%)



- Cyan (20%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (20%)
- Magenta (60%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.7019, 0.2734, 0.1692 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 29.7019, 0.2734, 0.1692 by changing the saturation by 10% instead.





 29.7019, 0.2734,  
0.1692


 29.7019, 0.2734,  
0.1692


300.5125, 0.2968,  
0.2415

 19.6124, 0.2668,  
0.1538


 59.1904, 0.2825,  
0.1935

 12.1136, 0.2582,  
0.1355


 79.3583, 0.2858,  
0.2033

 6.8211, 0.2464,  
0.1137


 103.6544, 0.2885,  
0.2117

 3.3505, 0.2298,  
0.0880

 132.4631, 0.2907,  
0.2192

 1.3173, 0.2056,  
0.0585

166.1689, 0.2926,  
0.2257

 0.1546, 0.1722,  
0.0129

205.1561, 0.2942,


 0.0000, 0.1153,


0.2316


0.0000


249.8092, 0.2956,  
0.2368


 0.0000, 0.0000,  
0.0000


 29.7019, 0.2734,  
0.1692


 29.7019, 0.2734,  
0.1692

 24.2854, 0.2645,  
0.1473


 36.7186, 0.2819,  
0.1944

 20.3266, 0.2555,  
0.1296


 45.4694, 0.2898,  
0.2216

 17.6481, 0.2468,  
0.1169

 56.0683, 0.2969,  
0.2495

 15.9651, 0.2385,  
0.1087

 68.6207, 0.3030,  
0.2772

 83.2240, 0.3083,  
0.3039

99.9689, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



29.7019, 0.1729, 0.1451



29.7019, 0.2734, 0.1692



29.7019, 0.4175, 0.2212

# Triad

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



29.7019, 0.2734, 0.1692



29.7019, 0.5173, 0.4597



29.7019, 0.1223, 0.3067

# Complementary

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



29.7019, 0.2734, 0.1692



79.1447, 0.3288, 0.5094

# 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.



29.7019, 0.1883, 0.4828



29.7019, 0.2734, 0.1692



29.7019, 0.4134, 0.5555

# Square

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



29.7019, 0.2734, 0.1692



29.7019, 0.5750, 0.3696



29.7019, 0.2962, 0.5940



29.7019, 0.1036, 0.1967



# Rectangle

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



29.7019, 0.2734, 0.1692



29.7019, 0.5092, 0.2671



29.7019, 0.2962, 0.5940



29.7019, 0.1385, 0.3611

# Sweetspot

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



29.7003, 0.2734, 0.1692



71.3987, 0.3042, 0.2827



32.8149, 0.2093, 0.1967



14.4303, 0.3025, 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.



29.7003, 0.2734, 0.1692



23.3900, 0.2627, 0.1434



36.4387, 0.3440, 0.2082



17.9859, 0.3085, 0.3052



8.4265, 0.2398, 0.1095



0.8797, 0.2492, 0.1146



# Inverse Universe

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



33.0179, 0.4378, 0.2799



27.4650, 0.4789, 0.2761



75.8866, 0.2938, 0.4944



18.0848, 0.3243, 0.3213



11.4612, 0.5673, 0.2899

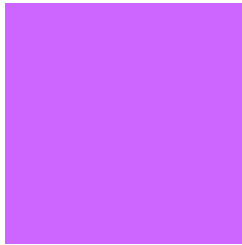


1.1351, 0.5354, 0.2723



# Previews

## White Background



This preview shows how the Yxy color 29.7019, 0.2734, 0.1692 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

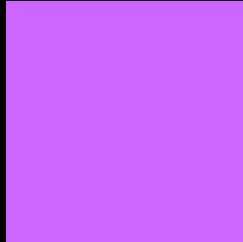
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.7019, 0.2734, 0.1692 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

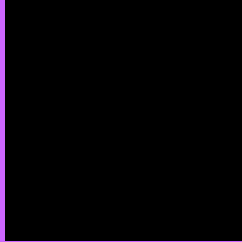
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.7019, 0.2734, 0.1692**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.7019, 0.2734, 0.1692.



This preview shows how white text looks on a background with the Yxy color 29.7019, 0.2734, 0.1692.

# 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

29.7019, 0.2734, 0.1692

### Protanopia

30.1234, 0.2055, 0.1858

### Deuteranopia

30.0335, 0.2036, 0.1970



## Tritanopia

29.4496, 0.3649, 0.3153

# Trichromacy



## Original Color

29.7019, 0.2734, 0.1692



## Protanomaly

28.3238, 0.2234, 0.1739



## Deuteranomaly

27.9313, 0.2204, 0.1797



## Tritanomaly

28.8491, 0.3274, 0.2495

# Monochromacy



## Original Color

29.7019, 0.2734, 0.1692



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

28.9519, 0.2977, 0.2532

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.7019, 0.2734, 0.1692 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(205, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(205, 102, 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(205, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 102, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 29.7019, 0.2734, 0.1692 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(205, 102, 255) }
```

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

```
.border{ border-color:rgb(205, 102, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(205, 102,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.7019, 0.2734, 0.1692 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 102, 255) }
```

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

```
.background{ background-color: rgb(205,  
102, 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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