

# Converting Colors

$Y_{xy}(32.7920, 0.2904, 0.1982)$

Have a look what the booklet for  
Yxy(32.7920, 0.2904, 0.1982)  
contains.

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# Color

**Yxy(32.7766, 0.2903, 0.1980)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D077EE
RGB	208, 119, 238
RGB Percent	82%, 47%, 93%
CMY	0.1841, 0.5335, 0.0665
CMYK	0.13, 0.50, 0.00, 0.07
HSL	285°, 78%, 70%
HSV	285°, 50%, 93%
XYZ	48.0558, 32.7766, 84.7060
YIQ	159.1770, 14.8450, 55.8770

# Conversions

## Conversions Part 2

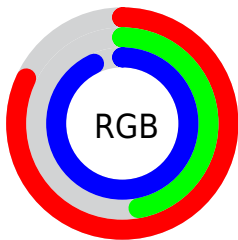
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	208, 119, 238
Decimal	13662190
CIE Lab	63.98, 53.59, -46.05
CIE LCh	64, 70.653, 319.328
Yxy	32.7766, 0.2903, 0.1980
Android (android.graphics.Color)	4291852270 (0xFFD077EE)
YUV	159.1770, 38.8597, 42.8178
Hunter-Lab	57.2509, 49.6421, -47.6474

# Details

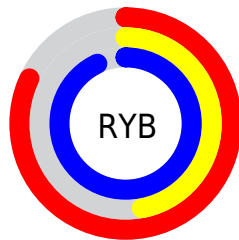
The Yxy color **32.7766, 0.2903, 0.1980** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **68.8827, 0.3227, 0.4801**, and the grayscale version is **34.5691, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.7521, 0.3164, 0.2498**, and **13.8119, 0.2810, 0.1684** is the 20% darker color. If you saturate the color by 10%, you get **26.9535, 0.2839, 0.1743**, and if you desaturate by 10%, it is **40.0537, 0.2961, 0.2239**.

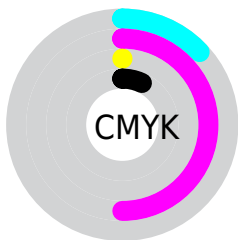
# Distribution



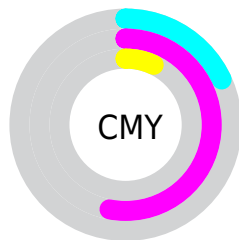
- Red (82%)
- Green (47%)
- Blue (93%)



- Red (82%)
- Yellow (47%)
- Blue (93%)



- Cyan (13%)
- Magenta (50%)
- Yellow (0%)
- Black (7%)




- Cyan (18%)
- Magenta (53%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.7766, 0.2903, 0.1980 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 32.7766, 0.2903, 0.1980 by changing the saturation by 10% instead.





 32.7766, 0.2903,  
0.1980


 32.7766, 0.2903,  
0.1980


314.6419, 0.3042,  
0.2590

 21.9554, 0.2862,  
0.1844


 64.0266, 0.2959,  
0.2190

 13.8241, 0.2806,  
0.1678


 85.2241, 0.2978,  
0.2272

 7.9984, 0.2728,  
0.1474


 110.6492, 0.2994,  
0.2343

 4.0939, 0.2613,  
0.1220

140.6863, 0.3007,  
0.2405

 1.7263, 0.2435,  
0.0905

175.7197, 0.3018,  
0.2460

 0.4406, 0.2157,  
0.0458

216.1338, 0.3027,

 0.0000, 0.1638,

0.2508


0.0000


262.3131, 0.3035,  
0.2551

 0.0000, 0.0000,  
0.0000

 32.7766, 0.2903,  
0.1980


 32.7766, 0.2903,  
0.1980


 26.9535, 0.2839,  
0.1743


 40.0537, 0.2961,  
0.2239


 22.4718, 0.2772,  
0.1538


 48.8777, 0.3013,  
0.2509


 19.2091, 0.2703,  
0.1376


 59.3387, 0.3058,  
0.2778

 17.0181, 0.2635,  
0.1262

 71.5187, 0.3096,  
0.3041

 15.6513, 0.2569,  
0.1189

 85.4939, 0.3127,  
0.3290

 96.9301, 0.3157,  
0.3457

 98.0199, 0.3194,  
0.3455

 98.9549, 0.3226,  
0.3454

# Harmonies

## Analogous

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



32.7766, 0.2026, 0.1751



32.7766, 0.2903, 0.1980



32.7766, 0.4042, 0.2453

# Triad

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



32.7766, 0.2903, 0.1980



32.7766, 0.4840, 0.4553



32.7766, 0.1539, 0.3086

# Complementary

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



32.7766, 0.2903, 0.1980



68.8827, 0.3227, 0.4801

# 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.



32.7766, 0.2113, 0.4364



32.7766, 0.2903, 0.1980



32.7766, 0.4010, 0.5209

# Square

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



32.7766, 0.2903, 0.1980



32.7766, 0.5258, 0.3798



32.7766, 0.3023, 0.5279



32.7766, 0.1364, 0.2206



# Rectangle

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



32.7766, 0.2903, 0.1980



32.7766, 0.4731, 0.2864



32.7766, 0.3023, 0.5279



32.7766, 0.1684, 0.3489

# Sweetspot

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



32.7780, 0.2903, 0.1980



76.1958, 0.3078, 0.2910



32.1367, 0.2248, 0.2121



15.6744, 0.3069, 0.2854



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.



32.7780, 0.2903, 0.1980



31.3943, 0.2838, 0.1738



36.0338, 0.3457, 0.2327



15.8194, 0.3098, 0.3054



8.7937, 0.2580, 0.1195



0.7782, 0.2666, 0.1242



# Inverse Universe

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



33.5364, 0.4177, 0.2962



32.6717, 0.4529, 0.2915



67.1854, 0.2919, 0.4515



15.8241, 0.3254, 0.3231



10.3401, 0.5923, 0.3037



0.8757, 0.5554, 0.2833



# Previews

## White Background



This preview shows how the Yxy color 32.7766, 0.2903, 0.1980 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

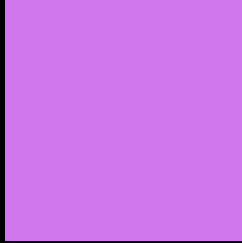
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.7766, 0.2903, 0.1980 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

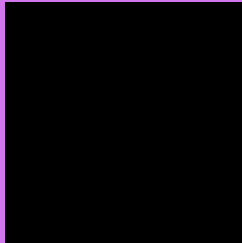
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.7766, 0.2903, 0.1980**

## Background



This preview shows how black text looks on a background with the Yxy color 32.7766, 0.2903, 0.1980.

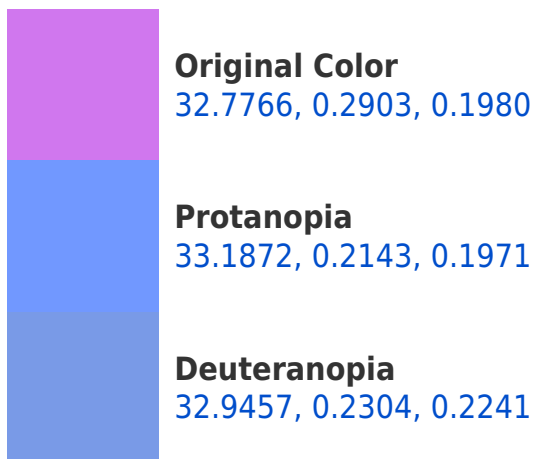


This preview shows how white text looks on a background with the Yxy color 32.7766, 0.2903, 0.1980.

# 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

32.5926, 0.3615, 0.3144

# Trichromacy



## Original Color

32.7766, 0.2903, 0.1980



## Protanomaly

31.8916, 0.2355, 0.1941



## Deuteranomaly

31.7626, 0.2480, 0.2100



## Tritanomaly

32.2008, 0.3338, 0.2646

# Monochromacy



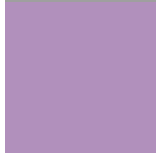
## Original Color

32.7766, 0.2903, 0.1980



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

32.9245, 0.3046, 0.2697

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.7766, 0.2903, 0.1980 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(208, 119, 238)` looks like.

```
.text, #text, p{  
    color:rgb(208, 119, 238)  
}
```

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(208, 119, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 119, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 32.7766, 0.2903, 0.1980 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(208, 119, 238) }
```

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

```
.border{ border-color:rgb(208, 119, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(208, 119, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 119, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 119, 238);  
box-shadow:4px 4px 4px 4px rgb(208, 119,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.7766, 0.2903, 0.1980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 119, 238) }
```

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

```
.background{ background-color: rgb(208,  
119, 238) }
```

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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