

# Converting Colors

$Y_{xy}(33.0629, 0.2801, 0.2158)$

Have a look what the booklet for  
Yxy(33.0629, 0.2801, 0.2158)  
contains.

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# Color

**Yxy(32.9413, 0.2797, 0.2148)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB85E4
RGB	187, 133, 228
RGB Percent	73%, 52%, 89%
CMY	0.2665, 0.4785, 0.1057
CMYK	0.18, 0.42, 0.00, 0.11
HSL	274°, 64%, 71%
HSV	274°, 42%, 89%
XYZ	42.8942, 32.9413, 77.5225
YIQ	159.9760, 1.6890, 40.9930

# Conversions

## Conversions Part 2

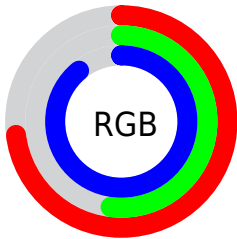
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 133, 228
Decimal	12289508
CIE <sub>Lab</sub>	64.11, 38.21, -40.46
CIE <sub>LCh</sub>	64, 55.649, 313.357
Yxy	32.9413, 0.2797, 0.2148
Android (android.graphics.Color)	4290479588 (0xFFBB85E4)
YUV	159.9760, 33.5358, 23.7000
Hunter-Lab	57.3945, 32.9630, -39.9065

# Details

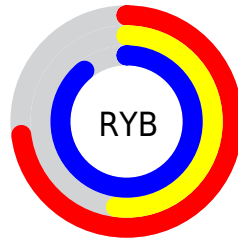
The Yxy color **32.9413, 0.2797, 0.2148** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **66.1970, 0.3341, 0.4473**, and the grayscale version is **34.9855, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.1731, 0.3082, 0.2608**, and **13.9187, 0.2680, 0.1867** is the 20% darker color. If you saturate the color by 10%, you get **26.1641, 0.2690, 0.1863**, and if you desaturate by 10%, it is **41.1614, 0.2894, 0.2438**.

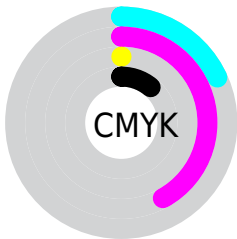
# Distribution



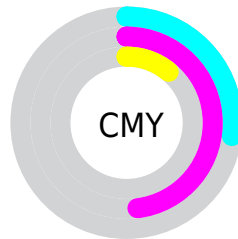
- Red (73%)
- Green (52%)
- Blue (89%)



- Red (73%)
- Yellow (52%)
- Blue (89%)



- Cyan (18%)
- Magenta (42%)
- Yellow (0%)
- Black (11%)




- Cyan (27%)
- Magenta (48%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.9413, 0.2797, 0.2148 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 32.9413, 0.2797, 0.2148 by changing the saturation by 10% instead.





 32.9413, 0.2797,  
0.2148


 32.9413, 0.2797,  
0.2148


315.3851, 0.2982,  
0.2694

 22.0815, 0.2746,  
0.2021


 64.2839, 0.2868,  
0.2340

 13.9168, 0.2678,  
0.1865


 85.5354, 0.2894,  
0.2414

 8.0628, 0.2584,  
0.1668


 111.0197, 0.2915,  
0.2477

 4.1352, 0.2448,  
0.1415

141.1210, 0.2933,  
0.2532

 1.7495, 0.2242,  
0.1088

176.2238, 0.2948,  
0.2581

 0.4554, 0.1921,  
0.0591

216.7125, 0.2961,

 0.0000, 0.1060,

0.2623


0.0000


262.9715, 0.2973,  
0.2661

 0.0000, 0.0000,  
0.0000


 32.9413, 0.2797,  
0.2148


 32.9413, 0.2797,  
0.2148


 26.1641, 0.2690,  
0.1863

 41.1614, 0.2894,  
0.2438


 20.7354, 0.2577,  
0.1597


 50.9026, 0.2980,  
0.2723


 16.5558, 0.2460,  
0.1363


 62.2422, 0.3054,  
0.2995


 13.5096, 0.2344,  
0.1174

 75.2510, 0.3118,  
0.3249

 11.4584, 0.2235,  
0.1037

 89.9954, 0.3171,  
0.3483

 10.3232, 0.2151,  
0.0959

 96.7260, 0.3228,  
0.3556

 98.3835, 0.3285,  
0.3552

# Harmonies

## Analogous

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



32.9413, 0.2122, 0.2001



32.9413, 0.2797, 0.2148



32.9413, 0.3680, 0.2517

# Triad

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



32.9413, 0.2797, 0.2148



32.9413, 0.4650, 0.4273



32.9413, 0.1905, 0.3342

# Complementary

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



32.9413, 0.2797, 0.2148



66.1970, 0.3341, 0.4473

# 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.



32.9413, 0.2468, 0.4295



32.9413, 0.2797, 0.2148



32.9413, 0.4053, 0.4778

# Square

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



32.9413, 0.2797, 0.2148



32.9413, 0.4841, 0.3653



32.9413, 0.3256, 0.4870



32.9413, 0.1669, 0.2551



# Rectangle

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



32.9413, 0.2797, 0.2148



32.9413, 0.4248, 0.2857



32.9413, 0.3256, 0.4870



32.9413, 0.2058, 0.3664

# Sweetspot

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



32.9426, 0.2797, 0.2148



78.0309, 0.3044, 0.2958



40.9274, 0.2442, 0.2573



15.9824, 0.3029, 0.2899



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.



32.9426, 0.2797, 0.2148



34.8077, 0.2706, 0.1902



38.5280, 0.3233, 0.2327



14.2895, 0.3069, 0.3053



6.0302, 0.2166, 0.0967



0.5002, 0.2313, 0.1048



# Inverse Universe

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



36.3256, 0.3727, 0.2819



39.9663, 0.3915, 0.2727



62.3655, 0.3033, 0.4492



14.4707, 0.3225, 0.3189



10.0600, 0.5243, 0.2662

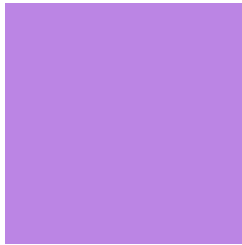


0.7617, 0.4874, 0.2459



# Previews

## White Background



This preview shows how the Yxy color 32.9413, 0.2797, 0.2148 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

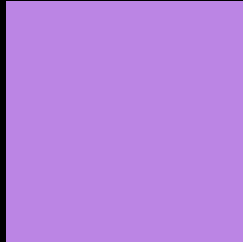
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.9413, 0.2797, 0.2148 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

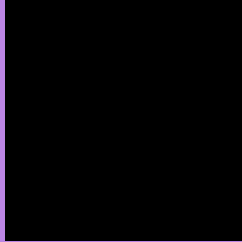
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.9413, 0.2797, 0.2148**

## Background



This preview shows how black text looks on a background with the Yxy color 32.9413, 0.2797, 0.2148.

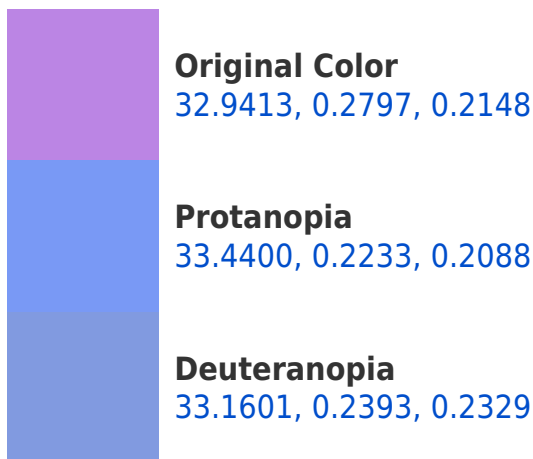


This preview shows how white text looks on a background with the Yxy color 32.9413, 0.2797, 0.2148.

# 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

32.9131, 0.3310, 0.3135

# Trichromacy



## Original Color

32.9413, 0.2797, 0.2148



## Protanomaly

32.8095, 0.2401, 0.2098



## Deuteranomaly

32.4780, 0.2522, 0.2248



## Tritanomaly

32.8089, 0.3113, 0.2738

# Monochromacy



## Original Color

32.9413, 0.2797, 0.2148



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

33.8615, 0.3004, 0.2807

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.9413, 0.2797, 0.2148 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(187, 133, 228)` looks like.

```
.text, #text, p{  
    color:rgb(187, 133, 228)  
}
```

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(187, 133, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 133, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 32.9413, 0.2797, 0.2148 is called "border". The border property can be set on classes, ids or directly on the HTML element.

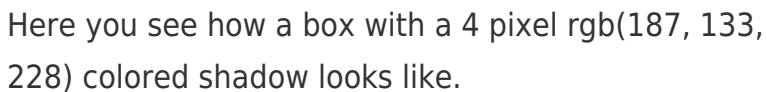
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(187, 133, 228) }
```

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

```
.border{ border-color:rgb(187, 133, 228) }
```

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



Here you see how a box with a 4 pixel rgb(187, 133, 228) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 133, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 133, 228);  
box-shadow:4px 4px 4px 4px rgb(187, 133,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.9413, 0.2797, 0.2148 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 133, 228) }
```

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

```
.background{ background-color: rgb(187,  
133, 228) }
```

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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