

# Converting Colors

$Y_{xy}(30.3340, 0.3235, 0.2312)$

Have a look what the booklet for  
Yxy(30.3340, 0.3235, 0.2312)  
contains.

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# Color

**Yxy(30.2488, 0.3237, 0.2312)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CE76C8
RGB	206, 118, 200
RGB Percent	81%, 46%, 78%
CMY	0.1922, 0.5372, 0.2158
CMYK	0.00, 0.43, 0.03, 0.19
HSL	304°, 47%, 64%
HSV	304°, 43%, 81%
XYZ	42.3509, 30.2488, 58.2342
YIQ	153.6600, 26.1260, 44.1580

# Conversions

## Conversions Part 2

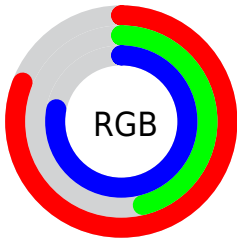
Format	Color
R <sub>Y</sub> B	206, 118, 200
Decimal	13530824
CIE Lab	61.87, 46.26, -28.09
CIE LCh	62, 54.117, 328.733
Yxy	30.2488, 0.3237, 0.2312
Android (android.graphics.Color)	4291720904 (0xFFCE76C8)
YUV	153.6600, 22.8456, 45.9022
Hunter-Lab	54.9989, 41.2027, -24.2784

# Details

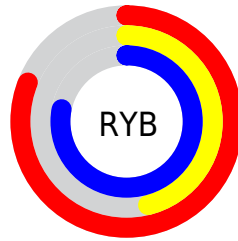
The Yxy color **30.2488, 0.3237, 0.2312** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **49.4429, 0.3030, 0.4515**, and the grayscale version is **32.0494, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.9850, 0.3165, 0.2479**, and **12.4558, 0.3246, 0.2051** is the 20% darker color. If you saturate the color by 10%, you get **25.8506, 0.3266, 0.2110**, and if you desaturate by 10%, it is **35.7096, 0.3208, 0.2534**.

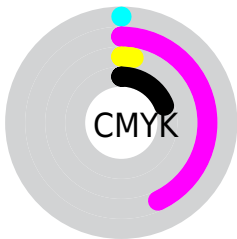
# Distribution



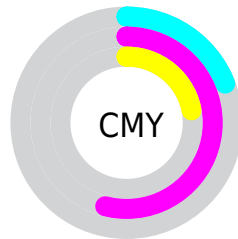
- Red (81%)
- Green (46%)
- Blue (78%)



- Red (81%)
- Yellow (46%)
- Blue (78%)



- Cyan (0%)
- Magenta (43%)
- Yellow (3%)
- Black (19%)




- Cyan (19%)
- Magenta (54%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.2488, 0.3237, 0.2312 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 30.2488, 0.3237, 0.2312 by changing the saturation by 10% instead.





 30.2488, 0.3237,  
0.2312

 30.2488, 0.3237,  
0.2312


303.0624, 0.3195,  
0.2792


 20.0275, 0.3243,  
0.2197


 60.0554, 0.3225,  
0.2483

 12.4150, 0.3248,  
0.2051

 80.4095, 0.3220,  
0.2549

 7.0270, 0.3250,  
0.1864


 104.9101, 0.3215,  
0.2604

 3.4790, 0.3243,  
0.1614

133.9414, 0.3210,  
0.2652

 1.3866, 0.3214,  
0.1273

167.8879, 0.3206,  
0.2694

 0.2068, 0.3229,  
0.0469

207.1340, 0.3202,

 0.0000, 0.2176,

0.2730

0.0000

252.0640, 0.3199,  
0.2763

0.0000, 0.0000,  
0.0000

30.2488, 0.3237,  
0.2312

30.2488, 0.3237,  
0.2312

25.8506, 0.3266,  
0.2110

35.7096, 0.3208,  
0.2534

22.4412, 0.3296,  
0.1937

42.2923, 0.3181,  
0.2766

19.9440, 0.3324,  
0.1801


50.0566, 0.3156,  
0.3000

18.2693, 0.3350,  
0.1707

59.0569, 0.3133,  
0.3230

17.3094, 0.3374,  
0.1657


69.3442, 0.3112,  
0.3449

 16.9212, 0.3390,  
0.1641

 80.9666, 0.3094,  
0.3656

 89.2835, 0.3081,  
0.3778

 89.3538, 0.3073,  
0.3762

 89.4248, 0.3065,  
0.3746

# Harmonies

## Analogous

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



30.2488, 0.2432, 0.2046



30.2488, 0.3237, 0.2312



30.2488, 0.4127, 0.2773

# Triad

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



30.2488, 0.3237, 0.2312



30.2488, 0.4382, 0.4561



30.2488, 0.1742, 0.2895

# Complementary

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



30.2488, 0.3237, 0.2312



49.4429, 0.3030, 0.4515

# 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.



30.2488, 0.2140, 0.3815



30.2488, 0.3237, 0.2312



30.2488, 0.3657, 0.4901

# Square

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



30.2488, 0.3237, 0.2312



30.2488, 0.4807, 0.3974



30.2488, 0.2836, 0.4656



30.2488, 0.1670, 0.2284



# Rectangle

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



30.2488, 0.3237, 0.2312



30.2488, 0.4586, 0.3151



30.2488, 0.2836, 0.4656



30.2488, 0.1837, 0.3178

# Sweetspot

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



30.2502, 0.3237, 0.2312



80.4979, 0.3157, 0.2989



21.6939, 0.2382, 0.1994



16.5959, 0.3162, 0.2937



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.



30.2502, 0.3237, 0.2312



42.5757, 0.3263, 0.2130



28.4862, 0.3740, 0.2808



11.3900, 0.3148, 0.3077



10.4275, 0.3387, 0.1639



0.5420, 0.3349, 0.1618



# Inverse Universe

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



30.2502, 0.3237, 0.2312



42.5757, 0.3263, 0.2130



50.8091, 0.2767, 0.3841



11.3900, 0.3148, 0.3077



10.4275, 0.3387, 0.1639

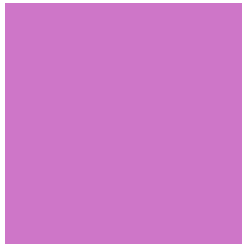


0.5420, 0.3349, 0.1618



# Previews

## White Background



This preview shows how the Yxy color 30.2488, 0.3237, 0.2312 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

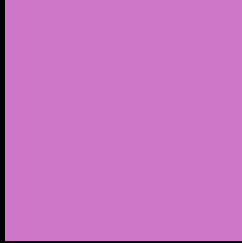
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.2488, 0.3237, 0.2312 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

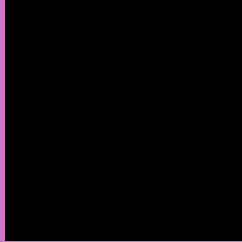
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.2488, 0.3237, 0.2312**

## Background



This preview shows how black text looks on a background with the Yxy color 30.2488, 0.3237, 0.2312.



This preview shows how white text looks on a background with the Yxy color 30.2488, 0.3237, 0.2312.

# 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

30.2488, 0.3237, 0.2312

### Protanopia

30.4802, 0.2348, 0.2232

### Deuteranopia

30.3830, 0.2650, 0.2589



## Tritanopia

30.2978, 0.3804, 0.3159

# Trichromacy



## Original Color

30.2488, 0.3237, 0.2312



## Protanomaly

29.3846, 0.2607, 0.2227



## Deuteranomaly

29.5320, 0.2839, 0.2452



## Tritanomaly

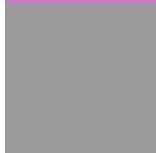
30.0869, 0.3603, 0.2828

# Monochromacy



## Original Color

30.2488, 0.3237, 0.2312



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

30.8743, 0.3168, 0.2867

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.2488, 0.3237, 0.2312 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(206, 118, 200)` looks like.

```
.text, #text, p{  
    color:rgb(206, 118, 200)  
}
```

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(206, 118, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(206, 118, 200) }
```

## Border

The CSS property to change the border of an element to Yxy 30.2488, 0.3237, 0.2312 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(206, 118, 200) }
```

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

```
.border{ border-color:rgb(206, 118, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(206, 118, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(206, 118, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(206, 118, 200);  
box-shadow:4px 4px 4px 4px rgb(206, 118,  
200) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.2488, 0.3237, 0.2312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(206, 118, 200) }
```

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

```
.background{ background-color: rgb(206,  
118, 200) }
```

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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