

# Converting Colors

$Y_{xy}(30.7847, 0.3699, 0.2711)$

Have a look what the booklet for  
Yxy(30.7847, 0.3699, 0.2711)  
contains.

<b>Yxy(30.8590, 0.3702, 0.2713)</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(30.8590, 0.3702, 0.2713)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D878A8
RGB	216, 120, 168
RGB Percent	85%, 47%, 66%
CMY	0.1528, 0.5295, 0.3412
CMYK	0.00, 0.44, 0.22, 0.15
HSL	330°, 55%, 66%
HSV	330°, 44%, 85%
XYZ	42.1084, 30.8590, 40.7776
YIQ	154.1760, 41.8080, 35.2800

# Conversions

## Conversions Part 2

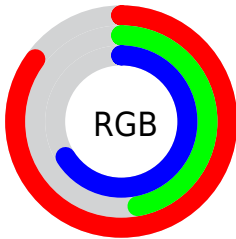
Format	Color
R <sub>Y</sub> B	216, 120, 168
Decimal	14186664
CIE Lab	62.39, 43.28, -9.01
CIE LCh	62, 44.212, 348.242
Yxy	30.8590, 0.3702, 0.2713
Android (android.graphics.Color)	4292376744 (0xFFD878A8)
YUV	154.1760, 6.8152, 54.2196
Hunter-Lab	55.5509, 38.0916, -4.6367

# Details

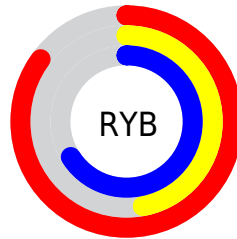
The Yxy color **30.8590, 0.3702, 0.2713** is a light color, and the websafe version is hex **CC6699**. A complement of this color would be **55.9464, 0.2791, 0.3965**, and the grayscale version is **32.3519, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.8598, 0.3422, 0.2792**, and **12.7661, 0.3885, 0.2541** is the 20% darker color. If you saturate the color by 10%, you get **25.8518, 0.3899, 0.2595**, and if you desaturate by 10%, it is **37.0746, 0.3532, 0.2843**.

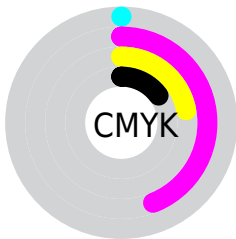
# Distribution



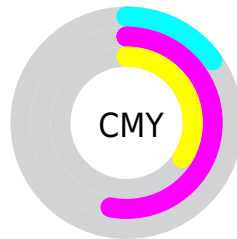
- Red (85%)
- Green (47%)
- Blue (66%)



- Red (85%)
- Yellow (47%)
- Blue (66%)



- Cyan (0%)
- Magenta (44%)
- Yellow (22%)
- Black (15%)




- Cyan (15%)
- Magenta (53%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.8590, 0.3702, 0.2713 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 30.8590, 0.3702, 0.2713 by changing the saturation by 10% instead.





 30.8590, 0.3702,  
0.2713

 30.8590, 0.3702,  
0.2713


305.8882, 0.3402,  
0.3008

 20.4915, 0.3781,  
0.2637


 61.0180, 0.3590,  
0.2822

 12.7528, 0.3885,  
0.2539


 81.5783, 0.3549,  
0.2862

 7.2586, 0.4028,  
0.2407


 106.3050, 0.3514,  
0.2896

 3.6243, 0.4236,  
0.2220

135.5825, 0.3485,  
0.2925

 1.4657, 0.4565,  
0.1936

169.7952, 0.3460,  
0.2950

 0.2644, 0.5421,  
0.1024

209.3274, 0.3438,

 0.0000, 1.0000,

0.2972

0.0000

254.5636, 0.3419,  
0.2991

0.0000, 0.0000,  
0.0000

30.8590, 0.3702,  
0.2713

30.8590, 0.3702,  
0.2713

25.8518, 0.3899,  
0.2595

37.0746, 0.3532,  
0.2843

21.9679, 0.4120,  
0.2501

44.5673, 0.3388,  
0.2977

19.1183, 0.4359,  
0.2443

53.4060, 0.3267,  
0.3109


17.1980, 0.4607,  
0.2433

63.6530, 0.3166,  
0.3236

16.0795, 0.4851,  
0.2477

75.3670, 0.3083,  
0.3355

 15.6852, 0.4982,  
0.2518

 88.6033, 0.3015,  
0.3465

 92.6323, 0.2955,  
0.3406

 93.3068, 0.2897,  
0.3295

 93.3431, 0.2894,  
0.3289

# Harmonies

## Analogous

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



30.8590, 0.2976, 0.2368



30.8590, 0.3702, 0.2713



30.8590, 0.4304, 0.3187

# Triad

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



30.8590, 0.3702, 0.2713



30.8590, 0.3820, 0.4556



30.8590, 0.1893, 0.2618

# Complementary

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



30.8590, 0.3702, 0.2713



55.9464, 0.2791, 0.3965

# 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.



30.8590, 0.2061, 0.3229



30.8590, 0.3702, 0.2713



30.8590, 0.3147, 0.4506

# Square

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



30.8590, 0.3702, 0.2713



30.8590, 0.4339, 0.4218



30.8590, 0.2505, 0.3976



30.8590, 0.2000, 0.2282



# Rectangle

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



30.8590, 0.3702, 0.2713



30.8590, 0.4509, 0.3537



30.8590, 0.2505, 0.3976



30.8590, 0.1918, 0.2794

# Sweetspot

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



30.8605, 0.3702, 0.2713



79.6206, 0.3252, 0.3127



26.7157, 0.2707, 0.2051



16.3781, 0.3277, 0.3098



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.



30.8605, 0.3702, 0.2713



38.2618, 0.3879, 0.2606



29.3895, 0.4307, 0.3294



12.5233, 0.3214, 0.3174



9.3032, 0.4948, 0.2499



0.5778, 0.4567, 0.2290



# Inverse Universe

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



30.8605, 0.3702, 0.2713



38.2618, 0.3879, 0.2606



58.0775, 0.2531, 0.3288



12.5233, 0.3214, 0.3174



9.3032, 0.4948, 0.2499



0.5778, 0.4567, 0.2290



# Previews

## White Background



This preview shows how the Yxy color 30.8590, 0.3702, 0.2713 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

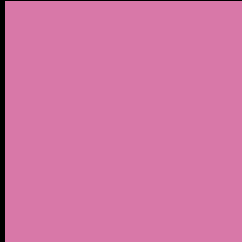
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.8590, 0.3702, 0.2713 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

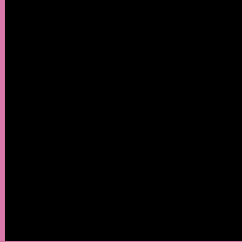
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.8590, 0.3702, 0.2713**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.8590, 0.3702, 0.2713.



This preview shows how white text looks on a background with the Yxy color 30.8590, 0.3702, 0.2713.

# 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

30.8590, 0.3702, 0.2713

### Protanopia

31.1943, 0.2725, 0.2729

### Deuteranopia

30.9854, 0.3108, 0.3053



## Tritanopia

30.8454, 0.4041, 0.3168

# Trichromacy



**Original Color**

30.8590, 0.3702, 0.2713

**Protanomaly**

30.2364, 0.3032, 0.2701

**Deuteranomaly**

30.3112, 0.3307, 0.2901

**Tritanomaly**

30.8496, 0.3912, 0.2996

# Monochromacy



**Original Color**

30.8590, 0.3702, 0.2713

**Achromatopsia**

32.3143, 0.3127, 0.3290

**Achromatomaly**

31.1963, 0.3330, 0.3050

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.8590, 0.3702, 0.2713 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(216, 120, 168)` looks like.

```
.text, #text, p{  
    color:rgb(216, 120, 168)  
}
```

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(216, 120, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 120, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 30.8590, 0.3702, 0.2713 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(216, 120, 168) }
```

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

```
.border{ border-color:rgb(216, 120, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(216, 120, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(216, 120, 168); -webkit-box-shadow:4px 4px 4px 4px rgb(216, 120, 168); box-shadow:4px 4px 4px 4px rgb(216, 120, 168) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.8590, 0.3702, 0.2713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 120, 168) }
```

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

```
.background{ background-color: rgb(216,  
120, 168) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor