

# Converting Colors

$Y_{xy}(29.4104, 0.3156, 0.2817)$

Have a look what the booklet for  
Yxy(29.4104, 0.3156, 0.2817)  
contains.

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# Color

**Yxy(29.4515, 0.3160, 0.2820)**

# Conversions

Conversions Part 1	
Format	Color
Hex	AB89AA
RGB	171, 137, 170
RGB Percent	67%, 54%, 67%
CMY	0.3293, 0.4628, 0.3333
CMYK	0.00, 0.20, 0.01, 0.33
HSL	302°, 17%, 60%
HSV	302°, 20%, 67%
XYZ	33.0024, 29.4515, 41.9841
YIQ	150.9280, 9.6710, 17.4710

# Conversions

## Conversions Part 2

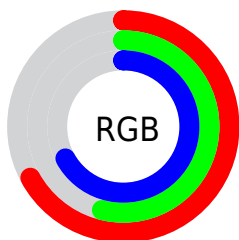
Format	Color
<a href="#">RYB</a>	<a href="#">171, 137, 170</a>
Decimal	<a href="#">11241898</a>
CIELab	<a href="#">61.18, 18.77, -12.50</a>
CIELCh	<a href="#">61, 22.550, 326.324</a>
Yxy	<a href="#">29.4515, 0.3160, 0.2820</a>
Android (android.graphics.Color)	<a href="#">4289431978</a> (0xFFAB89AA)
YUV	<a href="#">150.9280, 9.4025, 17.6031</a>
Hunter-Lab	<a href="#">54.2692, 13.5789, -7.8798</a>

# Details

The Yxy color  $29.4515, 0.3160, 0.2820$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $36.2908, 0.3094, 0.3810$ , and the grayscale version is  $30.8729, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $59.0287, 0.3160, 0.2919$ , and  $11.9759, 0.3156, 0.2671$  is the 20% darker color. If you saturate the color by 10%, you get  $24.9508, 0.3178, 0.2582$ , and if you desaturate by 10%, it is  $34.7256, 0.3143, 0.3059$ .

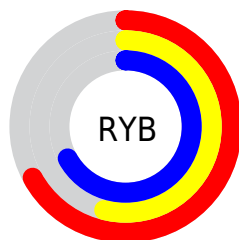
# Distribution



Red (67%)

Green (54%)

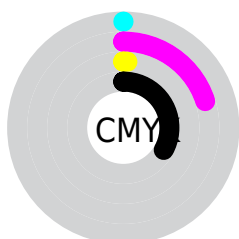
Blue (67%)



Red (67%)

Yellow (54%)

Blue (67%)

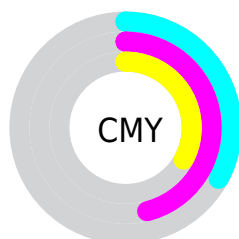


Cyan (0%)

Magenta (20%)

Yellow (1%)

Black (33%)



Cyan (33%)

Magenta (46%)


Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.4515, 0.3160, 0.2820 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 29.4515, 0.3160, 0.2820 by changing the saturation by 10% instead.





 29.4515, 0.3160,  
0.2820


 29.4515, 0.3160,  
0.2820


299.3393, 0.3146,  
0.3064

 19.4226, 0.3163,  
0.2756


 58.7937, 0.3156,  
0.2911

 11.9761, 0.3165,  
0.2672


 78.8758, 0.3154,  
0.2944

 6.7274, 0.3167,  
0.2557


 103.0777, 0.3152,  
0.2972

 3.2922, 0.3167,  
0.2390

131.7839, 0.3151,  
0.2996

 1.2861, 0.3159,  
0.2129

165.3788, 0.3149,  
0.3017

 0.1304, 0.3365,  
0.0754


204.2468, 0.3148,

 0.0000, 0.0000,


0.3035


0.0000


248.7721, 0.3147,  
0.3050


 29.4515, 0.3160,  
0.2820


 29.4515, 0.3160,  
0.2820


 24.9508, 0.3178,  
0.2582


 34.7256, 0.3143,  
0.3059


 21.1834, 0.3196,  
0.2352


 40.8031, 0.3127,  
0.3292


 18.1115, 0.3214,  
0.2139


 47.7171, 0.3112,  
0.3515

 15.6922, 0.3232,  
0.1953


 55.4977, 0.3099,  
0.3724


 13.8782, 0.3248,  
0.1801


 64.1735, 0.3087,  
0.3919

 12.6154, 0.3262,  
0.1690

 73.7718, 0.3077,  
0.4097

 11.8405, 0.3274,  
0.1620

 83.2215, 0.3068,  
0.4244

 11.4161, 0.3284,  
0.1583

 83.2414, 0.3065,  
0.4237

 11.4124, 0.3285,  
0.1583

 83.2614, 0.3062,  
0.4231

# Harmonies

## Analogous

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



29.4515, 0.2805, 0.2701



29.4515, 0.3160, 0.2820



29.4515, 0.3525, 0.3047

# Triad

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



29.4515, 0.3160, 0.2820



29.4515, 0.3721, 0.3865



29.4515, 0.2507, 0.3184

# Complementary

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



29.4515, 0.3160, 0.2820



36.2908, 0.3094, 0.3810

# 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.



29.4515, 0.2728, 0.3541



29.4515, 0.3160, 0.2820



29.4515, 0.3426, 0.3950

# Square

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



29.4515, 0.3160, 0.2820



29.4515, 0.3858, 0.3634



29.4515, 0.3061, 0.3834



29.4515, 0.2445, 0.2886



# Rectangle

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



29.4515, 0.3160, 0.2820



29.4515, 0.3718, 0.3237



29.4515, 0.3061, 0.3834



29.4515, 0.2565, 0.3302

# Sweetspot

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



29.4528, 0.3160, 0.2820



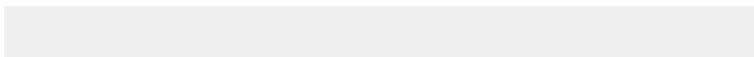
66.1256, 0.3137, 0.3149



26.1952, 0.2808, 0.2755



14.5974, 0.3138, 0.3134



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



29.4528, 0.3160, 0.2820



48.9167, 0.3168, 0.2712



28.8644, 0.3332, 0.3050



8.1439, 0.3142, 0.3073



8.6010, 0.3284, 0.1583



0.2405, 0.3259, 0.1569



# Inverse Universe

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



29.4528, 0.3160, 0.2820



48.9167, 0.3168, 0.2712



36.8081, 0.2962, 0.3543



8.1439, 0.3142, 0.3073



8.6010, 0.3284, 0.1583

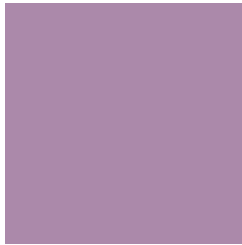


0.2405, 0.3259, 0.1569



# Previews

## White Background



This preview shows how the Yxy color 29.4515, 0.3160, 0.2820 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

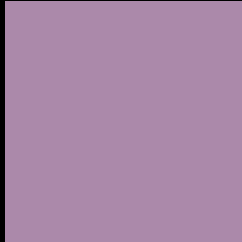
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.4515, 0.3160, 0.2820 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

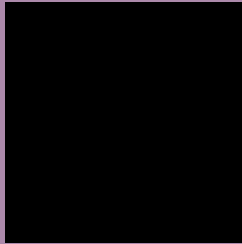
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.4515, 0.3160, 0.2820**

## Background



This preview shows how black text looks on a background with the Yxy color 29.4515, 0.3160, 0.2820.



This preview shows how white text looks on a background with the Yxy color 29.4515, 0.3160, 0.2820.

# 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

29.4515, 0.3160, 0.2820

### Protanopia

29.7528, 0.2817, 0.2849

### Deuteranopia

29.4865, 0.2972, 0.2913



## Tritanopia

29.3154, 0.3320, 0.3128

# Trichromacy



**Original Color**  
29.4515, 0.3160, 0.2820

**Protanomaly**  
29.4732, 0.2937, 0.2829

**Deuteranomaly**  
29.2853, 0.3043, 0.2876

**Tritanomaly**  
29.3689, 0.3259, 0.3013

# Monochromacy



**Original Color**  
29.4515, 0.3160, 0.2820

**Achromatopsia**  
30.9469, 0.3127, 0.3290

**Achromatomaly**  
30.2955, 0.3136, 0.3109

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.4515, 0.3160, 0.2820 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(171, 137, 170) looks like.

```
.text, #text, p{  
    color:rgb(171, 137, 170)  
}
```

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(171, 137, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 137, 170) }
```

## Border

The CSS property to change the border of an element to Yxy 29.4515, 0.3160, 0.2820 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(171, 137, 170) }
```

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

```
.border{ border-color:rgb(171, 137, 170) }
```

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

Here you see how a box with a 4 pixel rgb(171, 137, 170) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 137, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 137, 170);  
box-shadow:4px 4px 4px 4px rgb(171, 137,  
170) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.4515, 0.3160, 0.2820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 137, 170) }
```

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

```
.background{ background-color: rgb(171,  
137, 170) }
```

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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