

# Converting Colors

$Y_{xy}(20.1131, 0.3075, 0.2331)$

Have a look what the booklet for  
Yxy(20.1131, 0.3075, 0.2331)  
contains.

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# Color

**Yxy(20.0012, 0.3074, 0.2328)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A067A8
RGB	160, 103, 168
RGB Percent	63%, 40%, 66%
CMY	0.3726, 0.5960, 0.3413
CMYK	0.05, 0.39, 0.00, 0.34
HSL	293°, 27%, 53%
HSV	293°, 39%, 66%
XYZ	26.4105, 20.0012, 39.5041
YIQ	127.4530, 13.1070, 32.2990

# Conversions

## Conversions Part 2

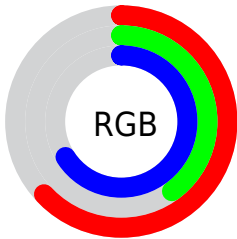
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	160, 103, 168
Decimal	10512296
CIE Lab	51.84, 33.87, -25.68
CIE LCh	52, 42.503, 322.826
Yxy	20.0012, 0.3074, 0.2328
Android (android.graphics.Color)	4288702376 (0xFFA067A8)
YUV	127.4530, 19.9897, 28.5437
Hunter-Lab	44.7227, 27.1466, -21.0657

# Details

The Yxy color  $20.0012, 0.3074, 0.2328$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $32.3580, 0.3141, 0.4418$ , and the grayscale version is  $21.3144, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $43.3693, 0.3101, 0.2520$ , and  $7.0251, 0.3020, 0.2014$  is the 20% darker color. If you saturate the color by 10%, you get  $16.7773, 0.3052, 0.2091$ , and if you desaturate by 10%, it is  $23.9017, 0.3092, 0.2578$ .

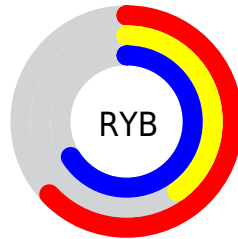
# Distribution



Red (63%)

Green (40%)

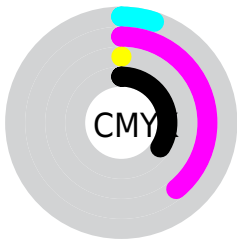
Blue (66%)



Red (63%)

Yellow (40%)

Blue (66%)

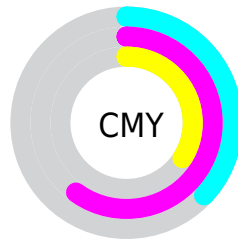


Cyan (5%)

Magenta (39%)

Yellow (0%)

Black (34%)



Cyan (37%)

Magenta (60%)

Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.0012, 0.3074, 0.2328 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 20.0012, 0.3074, 0.2328 by changing the saturation by 10% instead.





 20.0012, 0.3074,  
0.2328


 20.0012, 0.3074,  
0.2328


251.9216, 0.3118,  
0.2836


 12.3959, 0.3056,  
0.2194


 43.4192, 0.3095,  
0.2518


 7.0139, 0.3027,  
0.2018


 60.0007, 0.3101,  
0.2588

 3.4708, 0.2978,  
0.1779

 80.3431, 0.3106,  
0.2646

 1.3822, 0.2886,  
0.1440

 104.8307, 0.3110,  
0.2696

 0.2035, 0.2805,  
0.0553

133.8480, 0.3112,  
0.2738

 0.0000, 0.0000,  
0.0000

167.7793, 0.3115,

0.2775

207.0090, 0.3116,  
0.2807

■ 20.0012, 0.3074,  
0.2328

■ 20.0012, 0.3074,  
0.2328

■ 16.7773, 0.3052,  
0.2091

■ 23.9017, 0.3092,  
0.2578

■ 14.1870, 0.3027,  
0.1875

■ 28.5133, 0.3108,  
0.2832

■ 12.1863, 0.2999,  
0.1692


■ 33.8712, 0.3119,  
0.3081


■ 10.7246, 0.2969,  
0.1547


■ 40.0076, 0.3128,  
0.3321

■ 9.7427, 0.2938,  
0.1445


■ 46.9527, 0.3135,  
0.3548

 9.1305, 0.2907,  
0.1380

 54.7351, 0.3139,  
0.3758

 9.0565, 0.2902,  
0.1373

 63.3822, 0.3141,  
0.3952

 72.9198, 0.3142,  
0.4129

 83.3729, 0.3142,  
0.4290

# Harmonies

## Analogous

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



20.0012, 0.2379, 0.2123



20.0012, 0.3074, 0.2328



20.0012, 0.3882, 0.2726

# Triad

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



20.0012, 0.3074, 0.2328



20.0012, 0.4385, 0.4371



20.0012, 0.1909, 0.3092

# Complementary

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



20.0012, 0.3074, 0.2328



32.3580, 0.3141, 0.4418

# 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.



20.0012, 0.2343, 0.3932



20.0012, 0.3074, 0.2328



20.0012, 0.3769, 0.4719

# Square

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



20.0012, 0.3074, 0.2328



20.0012, 0.4681, 0.3826



20.0012, 0.3021, 0.4599



20.0012, 0.1778, 0.2465



# Rectangle

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



20.0012, 0.3074, 0.2328



20.0012, 0.4338, 0.3067



20.0012, 0.3021, 0.4599



20.0012, 0.2020, 0.3361

# Sweetspot

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



20.0021, 0.3074, 0.2328



57.8711, 0.3115, 0.2994



17.2289, 0.2455, 0.2296



12.3500, 0.3114, 0.2963



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

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



20.0021, 0.3074, 0.2328



31.4344, 0.3056, 0.2133



20.0453, 0.3471, 0.2671



7.6191, 0.3119, 0.3066



6.8560, 0.2906, 0.1374



0.1795, 0.3013, 0.1433



# Inverse Universe

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



19.1749, 0.3943, 0.3168



29.7976, 0.4212, 0.3144



32.4104, 0.2895, 0.4008



7.5568, 0.3267, 0.3262



6.3310, 0.6218, 0.3199

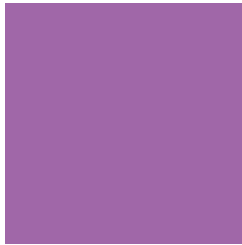


0.1585, 0.5591, 0.2854



# Previews

## White Background



This preview shows how the Yxy color 20.0012, 0.3074, 0.2328 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 20.0012, 0.3074, 0.2328 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

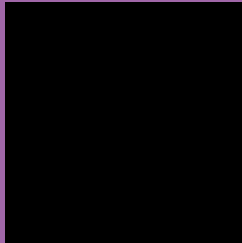
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.0012, 0.3074, 0.2328**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.0012, 0.3074, 0.2328.



This preview shows how white text looks on a background with the Yxy color 20.0012, 0.3074, 0.2328.

# 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

20.0012, 0.3074, 0.2328

### Protanopia

20.2810, 0.2381, 0.2276

### Deuteranopia

20.1768, 0.2617, 0.2564



## Tritanopia

20.0854, 0.3558, 0.3142

# Trichromacy



**Original Color**

20.0012, 0.3074, 0.2328

**Protanomaly**

19.7609, 0.2584, 0.2272

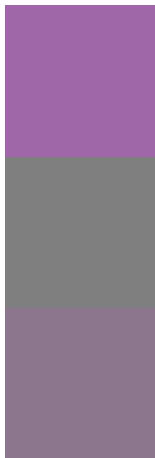
**Deuteranomaly**

19.8034, 0.2774, 0.2465

**Tritanomaly**

19.8693, 0.3371, 0.2810

# Monochromacy



**Original Color**

20.0012, 0.3074, 0.2328

**Achromatopsia**

21.2231, 0.3127, 0.3290

**Achromatomaly**

20.3988, 0.3110, 0.2882

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.0012, 0.3074, 0.2328 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(160, 103, 168)` looks like.

```
.text, #text, p{  
    color:rgb(160, 103, 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(160, 103, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 103, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 20.0012, 0.3074, 0.2328 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(160, 103, 168) }
```

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

```
.border{ border-color:rgb(160, 103, 168) }
```

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

Here you see how a box with a 4 pixel rgb(160, 103, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 103, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(160, 103, 168);  
box-shadow:4px 4px 4px 4px rgb(160, 103,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.0012, 0.3074, 0.2328 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 103, 168) }
```

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

```
.background{ background-color: rgb(160,  
103, 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](#).

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