

# Converting Colors

$Y_{xy}(31.0024, 0.3105, 0.3196)$

Have a look what the booklet for  
Yxy(31.0024, 0.3105, 0.3196)  
contains.

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# Color

**Yxy(30.9853, 0.3101, 0.3198)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	99969C
RGB	153, 150, 156
RGB Percent	60%, 59%, 61%
CMY	0.4000, 0.4118, 0.3882
CMYK	0.02, 0.04, 0.00, 0.39
HSL	270°, 3%, 60%
HSV	270°, 4%, 61%
XYZ	30.0455, 30.9853, 35.8588
YIQ	151.5810, -0.1380, 2.5020

# Conversions

## Conversions Part 2

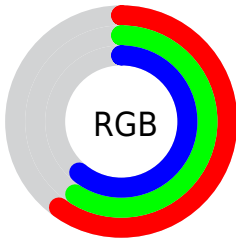
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	153, 150, 156
Decimal	10065564
CIE Lab	62.50, 2.26, -2.78
CIE LCh	62, 3.584, 309.157
Yxy	30.9853, 0.3101, 0.3198
Android (android.graphics.Color)	4288255644 (0xFF99969C)
YUV	151.5810, 2.1786, 1.2445
Hunter-Lab	55.6644, -1.0655, 0.7707

# Details

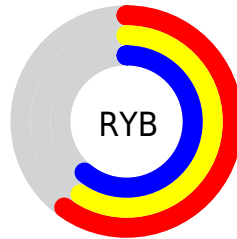
The Yxy color **30.9853, 0.3101, 0.3198** is a light color, and the websafe version is hex **999999**. A complement of this color would be **32.7606, 0.3153, 0.3382**, and the grayscale version is **31.2012, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1043, 0.3108, 0.3221**, and **12.7684, 0.3090, 0.3158** is the 20% darker color. If you saturate the color by 10%, you get **25.5975, 0.3025, 0.2945**, and if you desaturate by 10%, it is **37.0887, 0.3165, 0.3430**.

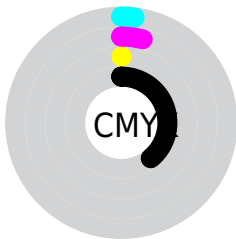
# Distribution



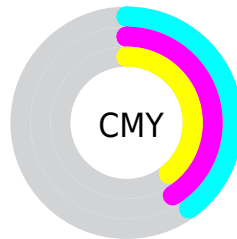
- Red (60%)
- Green (59%)
- Blue (61%)



- Red (60%)
- Yellow (59%)
- Blue (61%)



- Cyan (2%)
- Magenta (4%)
- Yellow (0%)
- Black (39%)



- Cyan (40%)
- Magenta (41%)
- Yellow (39%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.9853, 0.3101, 0.3198 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 30.9853, 0.3101, 0.3198 by changing the saturation by 10% instead.



■ 30.9853, 0.3101,  
0.3198

■ 30.9853, 0.3101,  
0.3198

306.4706, 0.3115,  
0.3247

■ 20.5877, 0.3097,  
0.3185

■ 61.2169, 0.3106,  
0.3217

■ 12.8229, 0.3092,  
0.3167

■ 81.8197, 0.3108,  
0.3223

■ 7.3067, 0.3084,  
0.3142

106.5930, 0.3110,  
0.3229

■ 3.6547, 0.3073,  
0.3104

135.9211, 0.3111,  
0.3234

■ 1.4823, 0.3053,  
0.3041

170.1886, 0.3112,  
0.3238

■ 0.2762, 0.2918,  
0.2536

209.7797, 0.3113,

■ 0.0000, 0.0000,

0.3241

0.0000

255.0789, 0.3114,  
0.3244

■ 30.9853, 0.3101,  
0.3198

■ 30.9853, 0.3101,  
0.3198

■ 25.5975, 0.3025,  
0.2945

■ 37.0887, 0.3165,  
0.3430

■ 20.8944, 0.2937,  
0.2674

■ 43.9293, 0.3220,  
0.3640

■ 16.8486, 0.2837,  
0.2389

■ 51.5325, 0.3265,  
0.3830

■ 13.4293, 0.2725,  
0.2098

■ 59.9214, 0.3303,  
0.3999

■ 10.6033, 0.2603,  
0.1811

■ 69.1183, 0.3334,  
0.4151

■ 8.3341, 0.2475,  
0.1541

■ 79.1441, 0.3360,  
0.4286

■ 6.5811, 0.2345,  
0.1302

■ 87.2997, 0.3390,  
0.4370

■ 5.2976, 0.2218,  
0.1108

■ 88.4607, 0.3442,  
0.4352

■ 4.4284, 0.2101,  
0.0965

■ 89.6784, 0.3495,  
0.4333

# Harmonies

## Analogous

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



30.9853, 0.3050, 0.3193



30.9853, 0.3101, 0.3198



30.9853, 0.3159, 0.3227

# Triad

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



30.9853, 0.3101, 0.3198



30.9853, 0.3235, 0.3366



30.9853, 0.3046, 0.3307

# Complementary

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



30.9853, 0.3101, 0.3198



32.7606, 0.3153, 0.3382

# 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.



30.9853, 0.3095, 0.3355



30.9853, 0.3101, 0.3198



30.9853, 0.3204, 0.3388

# Square

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



30.9853, 0.3101, 0.3198



30.9853, 0.3237, 0.3323



30.9853, 0.3153, 0.3384



30.9853, 0.3019, 0.3256



# Rectangle

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



30.9853, 0.3101, 0.3198



30.9853, 0.3194, 0.3256



30.9853, 0.3153, 0.3384



30.9853, 0.3060, 0.3324

# Sweetspot

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



30.9866, 0.3101, 0.3198



59.2752, 0.3120, 0.3266



31.7043, 0.3070, 0.3245



13.0578, 0.3121, 0.3267



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290



# Same Dimension

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



30.9866, 0.3101, 0.3198



54.9804, 0.3092, 0.3168



31.2742, 0.3130, 0.3199



7.0680, 0.3089, 0.3157



3.3232, 0.2040, 0.0897



0.0846, 0.2490, 0.1145



# Inverse Universe

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



31.1838, 0.3160, 0.3244



55.4516, 0.3171, 0.3229



32.4799, 0.3124, 0.3383



7.1345, 0.3175, 0.3224



6.2849, 0.4910, 0.2478



0.1209, 0.4095, 0.2030



# Previews

## White Background



This preview shows how the Yxy color 30.9853, 0.3101, 0.3198 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

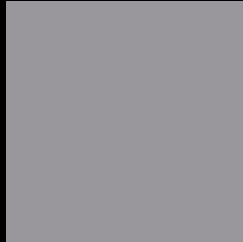
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.9853, 0.3101, 0.3198 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

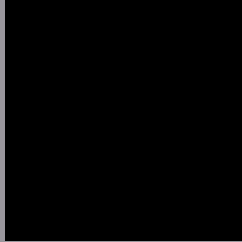
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

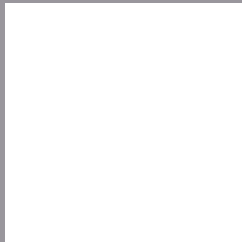
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 30.9853, 0.3101, 0.3198**

## Background



This preview shows how black text looks on a background with the Yxy color 30.9853, 0.3101, 0.3198.

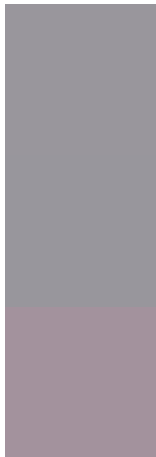


This preview shows how white text looks on a background with the Yxy color 30.9853, 0.3101, 0.3198.

# 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

30.9853, 0.3101, 0.3198

### Protanopia

30.8884, 0.3091, 0.3198

### Deuteranopia

30.7786, 0.3197, 0.3127



## Tritanopia

30.9381, 0.3065, 0.3109

# Trichromacy



## Original Color

30.9853, 0.3101, 0.3198

## Protanomaly

30.8884, 0.3091, 0.3198

## Deuteranomaly

30.6727, 0.3155, 0.3140

## Tritanomaly

30.8681, 0.3084, 0.3138

# Monochromacy



## Original Color

30.9853, 0.3101, 0.3198

## Achromatopsia

31.3989, 0.3127, 0.3290

## Achromatomaly

31.1085, 0.3119, 0.3259

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.9853, 0.3101, 0.3198 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(153, 150, 156)` looks like.

```
.text, #text, p{  
    color:rgb(153, 150, 156)  
}
```

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(153, 150, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 150, 156) }
```

## Border

The CSS property to change the border of an element to Yxy 30.9853, 0.3101, 0.3198 is called "border". The border property can be set on classes, ids or directly on the HTML element.

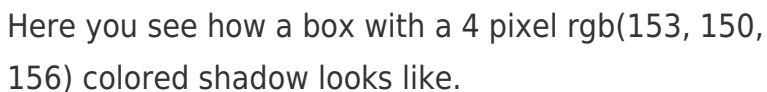
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(153, 150, 156) }
```

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

```
.border{ border-color:rgb(153, 150, 156) }
```

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



Here you see how a box with a 4 pixel `rgb(153, 150, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(153, 150, 156); -webkit-box-shadow:4px 4px 4px 4px rgb(153, 150, 156); box-shadow:4px 4px 4px 4px rgb(153, 150, 156) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.9853, 0.3101, 0.3198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 150, 156) }
```

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

```
.background{ background-color: rgb(153,  
150, 156) }
```

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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