

# Converting Colors

$Y_{xy}(49.5200, 0.3127, 0.3290)$

Have a look what the booklet for  
Yxy(49.5200, 0.3127, 0.3290)  
contains.

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# Color

**Yxy(49.6933, 0.3127, 0.3290)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBBBBB
RGB	187, 187, 187
RGB Percent	73%, 73%, 73%
CMY	0.2667, 0.2666, 0.2666
CMYK	0.00, 0.00, 0.00, 0.27
HSL	174°, 0%, 73%
HSV	174°, 0%, 73%
XYZ	47.2313, 49.6933, 54.1189
YIQ	187.0000, -0.0000, -0.0000

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 187, 187
Decimal	12303291
CIE Lab	75.88, -0.00, -0.01
CIE LCh	76, 0.011, 259.964
Yxy	49.6933, 0.3127, 0.3290
Android (android.graphics.Color)	4290493371 (0xFFBBBBBB)
YUV	187.0000, 0.0000, 0.0000
Hunter-Lab	70.4935, -3.7669, 3.8276

# Details

The Yxy color `49.6933, 0.3127, 0.3290` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `49.6883, 0.3127, 0.3290`, and the grayscale version is `49.6943, 0.3127, 0.3290`.

A 20% lighter version of the original color is `89.6269, 0.3127, 0.3290`, and `23.8398, 0.3127, 0.3290` is the 20% darker color. If you saturate the color by 10%, you get `47.4117, 0.2989, 0.3314`, and if you desaturate by 10%, it is `52.2873, 0.3270, 0.3269`.

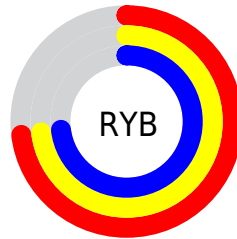
# Distribution



Red (73%)

Green (73%)

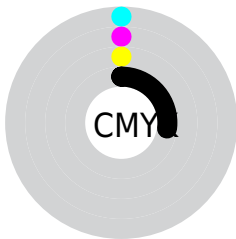
Blue (73%)



Red (73%)

Yellow (73%)

Blue (73%)

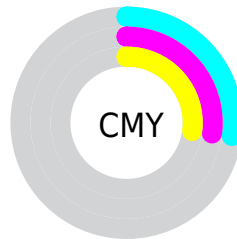


Cyan (0%)

Magenta (0%)

Yellow (0%)

Black (27%)



Cyan (27%)

Magenta (27%)


Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6933, 0.3127, 0.3290 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 49.6933, 0.3127, 0.3290 by changing the saturation by 10% instead.




 49.6933, 0.3127,  
0.3290

 49.6933, 0.3127,  
0.3290


385.4653, 0.3127,  
0.3290

 35.1698, 0.3127,  
0.3290


 89.7203, 0.3127,  
0.3290

 23.7937, 0.3127,  
0.3290


115.9925, 0.3127,  
0.3290

 15.1806, 0.3127,  
0.3290


146.9498, 0.3127,  
0.3290

 8.9463, 0.3127,  
0.3290

182.9765, 0.3127,  
0.3290

 4.7061, 0.3127,  
0.3290

224.4570, 0.3127,  
0.3290

 2.0759, 0.3126,  
0.3290

271.7757, 0.3127,

 0.6510, 0.3126,

0.3290

0.3289

325.3170, 0.3127,  
0.3290

0.0000, 0.0000,  
0.0000

49.6933, 0.3127,  
0.3290

49.6933, 0.3127,  
0.3290

47.4117, 0.2989,  
0.3314

52.2873, 0.3270,  
0.3269

45.4243, 0.2857,  
0.3340

55.1984, 0.3414,  
0.3250

43.7206, 0.2735,  
0.3367

58.4394, 0.3558,  
0.3233

42.2874, 0.2626,  
0.3397

60.7096, 0.3644,  
0.3216

41.1100, 0.2532,  
0.3428

60.7913, 0.3628,  
0.3198

■ 40.1726, 0.2456,  
0.3460

■ 60.8741, 0.3613,  
0.3179

■ 39.4575, 0.2398,  
0.3493

■ 60.9579, 0.3598,  
0.3160

■ 38.9446, 0.2358,  
0.3526

■ 61.0426, 0.3582,  
0.3142

■ 38.6103, 0.2338,  
0.3559

■ 61.1284, 0.3567,  
0.3123

# Harmonies

# Triad

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



49.6933, 0.3127, 0.3290



49.6933, 0.3128, 0.3290



49.6933, 0.3127, 0.3290

# Complementary

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



49.6933, 0.3127, 0.3290



49.6883, 0.3127, 0.3290

# 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.



49.6933, 0.3127, 0.3290



49.6933, 0.3127, 0.3290



49.6933, 0.3128, 0.3290

# Square

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



49.6933, 0.3127, 0.3290



49.6933, 0.3127, 0.3290



49.6933, 0.3128, 0.3290



49.6933, 0.3127, 0.3290



# Rectangle

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



49.6933, 0.3127, 0.3290



49.6933, 0.3127, 0.3290



49.6933, 0.3128, 0.3290



49.6933, 0.3127, 0.3290

# Sweetspot

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



49.6954, 0.3127, 0.3290



89.0005, 0.3127, 0.3290



49.6949, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



95.5105, 0.3127, 0.3290

# Same Dimension

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



49.6954, 0.3127, 0.3290



89.0005, 0.3127, 0.3290



49.6919, 0.3127, 0.3290



11.2805, 0.3127, 0.3290



26.4659, 0.2330, 0.3587



1.0414, 0.2308, 0.3509

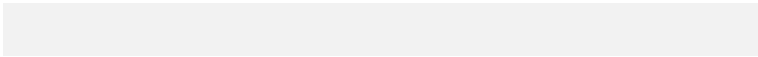


# Inverse Universe

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



49.6883, 0.3127, 0.3290



89.0005, 0.3127, 0.3290



49.6919, 0.3127, 0.3290



11.2805, 0.3127, 0.3290



7.3145, 0.6274, 0.3230

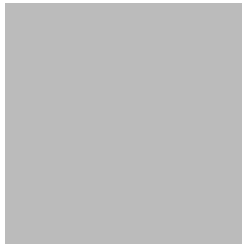


0.2916, 0.5857, 0.3000



# Previews

## White Background



This preview shows how the Yxy color 49.6933, 0.3127, 0.3290 looks on a white background.

## Color Contrast Check

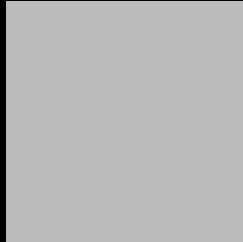
Large Text (above 18pt) WCAG AA × Fail

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 49.6933, 0.3127, 0.3290 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

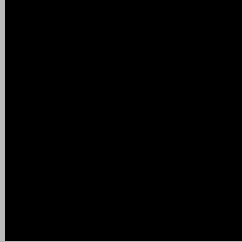
Any Text WCAG AAA ✓ Pass

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

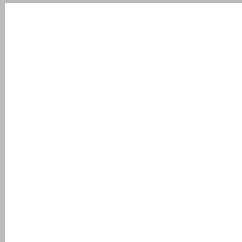


**Yxy 49.6933, 0.3127, 0.3290**

## Background



This preview shows how black text looks on a background with the Yxy color 49.6933, 0.3127, 0.3290.

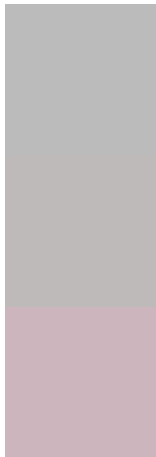


This preview shows how white text looks on a background with the Yxy color 49.6933, 0.3127, 0.3290.

# 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

49.6933, 0.3127, 0.3290

### Protanopia

49.6101, 0.3161, 0.3290

### Deuteranopia

49.5160, 0.3269, 0.3205



## Tritanopia

49.6869, 0.3045, 0.3103

# Trichromacy



## Original Color

49.6933, 0.3127, 0.3290

## Protanomaly

49.4818, 0.3152, 0.3290

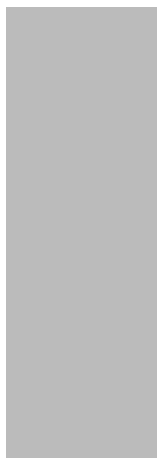
## Deuteranomaly

49.5036, 0.3215, 0.3228

## Tritanomaly

49.7493, 0.3075, 0.3177

# Monochromacy



## Original Color

49.6933, 0.3127, 0.3290

## Achromatopsia

49.6933, 0.3127, 0.3290

## Achromatomaly

49.6933, 0.3127, 0.3290

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6933, 0.3127, 0.3290 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(187, 187, 187)` looks like.

```
.text, #text, p{  
    color:rgb(187, 187, 187)  
}
```

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(187, 187, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 187, 187) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6933, 0.3127, 0.3290 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(187, 187, 187) }
```

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

```
.border{ border-color:rgb(187, 187, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 187, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 187, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 187, 187);  
box-shadow:4px 4px 4px 4px rgb(187, 187,  
187) }
```

# Background

The CSS property to change the background color of an element to Yxy 49.6933, 0.3127, 0.3290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 187, 187) }
```

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

```
.background{ background-color: rgb(187,  
187, 187) }
```

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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