

# Converting Colors

$Yxy(45.6087, 0.3108, 0.3737)$

Have a look what the booklet for  
Yxy(45.6087, 0.3108, 0.3737)  
contains.

<b>Yxy(45.5689, 0.3107, 0.3728)</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(45.5689, 0.3107, 0.3728)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9DBC9D
RGB	157, 188, 157
RGB Percent	62%, 74%, 62%
CMY	0.3842, 0.2628, 0.3844
CMYK	0.16, 0.00, 0.16, 0.26
HSL	120°, 19%, 68%
HSV	120°, 16%, 74%
XYZ	37.9782, 45.5689, 38.6871
YIQ	175.1970, -8.5250, -16.2130

# Conversions

## Conversions Part 2

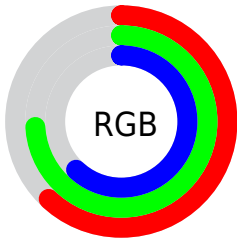
<b>Format</b>	<b>Color</b>
<b>RYB</b>	157, 188, 188
Decimal	10337437
CIELab	73.26, -16.49, 12.25
CIELCh	73, 20.543, 143.394
Yxy	45.5689, 0.3107, 0.3728
Android (android.graphics.Color)	4288527517 (0xFF9DBC9D)
YUV	175.1970, -8.9711, -15.9588
Hunter-Lab	67.5047, -17.7092, 13.2741

# Details

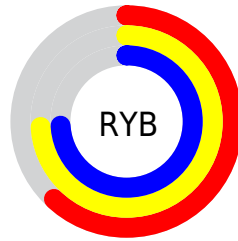
The Yxy color  $45.5689, 0.3107, 0.3728$  is a light color, and the websafe version is hex  $99CC99$ . A complement of this color would be  $38.4261, 0.3146, 0.2888$ , and the grayscale version is  $43.0315, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.4519, 0.3111, 0.3637$ , and  $21.3718, 0.3089, 0.3863$  is the 20% darker color. If you saturate the color by 10%, you get  $43.2315, 0.3093, 0.4038$ , and if you desaturate by 10%, it is  $48.2990, 0.3120, 0.3451$ .

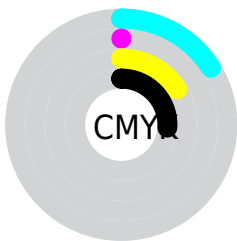
# Distribution



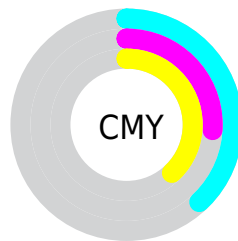
- Red (62%)
- Green (74%)
- Blue (62%)



- Red (62%)
- Yellow (74%)
- Blue (74%)



- Cyan (16%)
- Magenta (0%)
- Yellow (16%)
- Black (26%)




- Cyan (38%)
- Magenta (26%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.5689, 0.3107, 0.3728 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 45.5689, 0.3107, 0.3728 by changing the saturation by 10% instead.





 45.5689, 0.3107,  
0.3728

 45.5689, 0.3107,  
0.3728


369.0728, 0.3120,  
0.3502

 31.9058, 0.3103,  
0.3787


 83.5735, 0.3113,  
0.3644

 21.2895, 0.3096,  
0.3863


 108.6837, 0.3114,  
0.3613

 13.3358, 0.3087,  
0.3968


138.3783, 0.3116,  
0.3587

 7.6602, 0.3071,  
0.4118

173.0419, 0.3117,  
0.3565

 3.8783, 0.3042,  
0.4353

213.0587, 0.3118,  
0.3546

 1.6057, 0.2992,  
0.4792

258.8132, 0.3119,

 0.3614, 0.0000,

0.3530

1.0000

310.6898, 0.3120,  
0.3515

0.0000, 0.0000,  
0.0000

45.5689, 0.3107,  
0.3728

45.5689, 0.3107,  
0.3728

43.2315, 0.3093,  
0.4038

48.2990, 0.3120,  
0.3451

41.2634, 0.3077,  
0.4376

51.4327, 0.3131,  
0.3209

39.6474, 0.3060,  
0.4731

54.9874, 0.3141,  
0.2999

38.3628, 0.3044,  
0.5083

58.9779, 0.3149,  
0.2818

37.3866, 0.3029,  
0.5407

63.4184, 0.3156,  
0.2664

■ 36.6929, 0.3016,  
0.5676

■ 64.4450, 0.3158,  
0.2634

■ 36.2518, 0.3007,  
0.5867

■ 36.0238, 0.3002,  
0.5972

■ 35.9669, 0.3000,  
0.6000

# Harmonies

## Analogous

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



45.5689, 0.3393, 0.3807



45.5689, 0.3107, 0.3728



45.5689, 0.2835, 0.3513

# Triad

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



45.5689, 0.3107, 0.3728



45.5689, 0.2655, 0.2845



45.5689, 0.3631, 0.3309

# Complementary

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



45.5689, 0.3107, 0.3728



38.4261, 0.3146, 0.2888

# 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.



45.5689, 0.3415, 0.3077



45.5689, 0.3107, 0.3728



45.5689, 0.2850, 0.2815

# Square

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



45.5689, 0.3107, 0.3728



45.5689, 0.2582, 0.2994



45.5689, 0.3126, 0.2900



45.5689, 0.3704, 0.3547



# Rectangle

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



45.5689, 0.3107, 0.3728



45.5689, 0.2697, 0.3330



45.5689, 0.3126, 0.2900



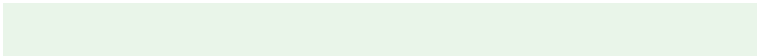
45.5689, 0.3572, 0.3229

# Sweetspot

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



45.5708, 0.3107, 0.3728



88.2948, 0.3121, 0.3415



48.8695, 0.3372, 0.3687



18.9060, 0.3121, 0.3433



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

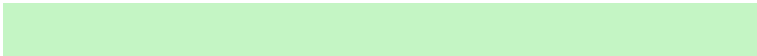


# Same Dimension

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



45.5708, 0.3107, 0.3728



80.8865, 0.3102, 0.3843



46.1097, 0.2996, 0.3512



10.6503, 0.3116, 0.3527



24.4894, 0.3000, 0.6000



0.9595, 0.3002, 0.5998



# Inverse Universe

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



38.4261, 0.3146, 0.2888



65.3511, 0.3150, 0.2793



37.8190, 0.3283, 0.3078



9.6955, 0.3138, 0.3064



9.7267, 0.3205, 0.1539



0.3812, 0.3206, 0.1540



# Previews

## White Background



This preview shows how the Yxy color 45.5689, 0.3107, 0.3728 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

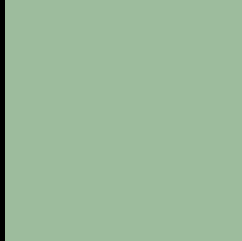
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.5689, 0.3107, 0.3728 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

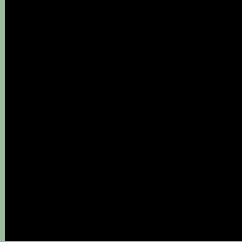
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.5689, 0.3107, 0.3728**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.5689, 0.3107, 0.3728.



This preview shows how white text looks on a background with the Yxy color 45.5689, 0.3107, 0.3728.

# 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

45.5689, 0.3107, 0.3728

### Protanopia

45.3589, 0.3433, 0.3633

### Deuteranopia

45.2626, 0.3526, 0.3455



## Tritanopia

45.3796, 0.2868, 0.3090

# Trichromacy



## Original Color

45.5689, 0.3107, 0.3728

## Protanomaly

45.1361, 0.3309, 0.3671

## Deuteranomaly

44.9088, 0.3365, 0.3542

## Tritanomaly

45.2354, 0.2954, 0.3317

# Monochromacy



## Original Color

45.5689, 0.3107, 0.3728

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

43.7945, 0.3119, 0.3455

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.5689, 0.3107, 0.3728 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(157, 188, 157)` looks like.

```
.text, #text, p{  
    color:rgb(157, 188, 157)  
}
```

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(157, 188, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 188, 157) }
```

## Border

The CSS property to change the border of an element to Yxy 45.5689, 0.3107, 0.3728 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(157, 188, 157) }
```

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

```
.border{ border-color:rgb(157, 188, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 188, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 188, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 188, 157);  
box-shadow:4px 4px 4px 4px rgb(157, 188,  
157) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.5689, 0.3107, 0.3728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 188, 157) }
```

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

```
.background{ background-color: rgb(157,  
188, 157) }
```

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