

# Converting Colors

$Y_{xy}(42.5510, 0.3376, 0.4170)$

Have a look what the booklet for  
Yxy(42.5510, 0.3376, 0.4170)  
contains.

<b>Yxy(42.4651, 0.3374, 0.4163)</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(42.4651, 0.3374, 0.4163)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9DB77B
RGB	157, 183, 123
RGB Percent	62%, 72%, 48%
CMY	0.3842, 0.2824, 0.5176
CMYK	0.14, 0.00, 0.33, 0.28
HSL	86°, 29%, 60%
HSV	86°, 33%, 72%
XYZ	34.4168, 42.4651, 25.1241
YIQ	168.3860, 3.7640, -24.1720

# Conversions

## Conversions Part 2

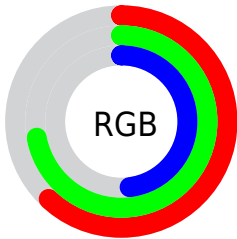
Format	Color
<a href="#">RYB</a>	<a href="#">123, 183, 149</a>
Decimal	<a href="#">10336123</a>
CIELab	<a href="#">71.19, -19.44, 27.66</a>
CIELCh	<a href="#">71, 33.806, 125.103</a>
Yxy	<a href="#">42.4651, 0.3374, 0.4163</a>
Android (android.graphics.Color)	<a href="#">4288526203 (0xFF9DB77B)</a>
YUV	<a href="#">168.3860, -22.3753, -9.9855</a>
Hunter-Lab	<a href="#">65.1653, -19.7650, 22.7568</a>

# Details

The Yxy color **42.4651, 0.3374, 0.4163** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **23.9754, 0.2804, 0.2399**, and the grayscale version is **39.4713, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.8646, 0.3334, 0.3992**, and **19.4496, 0.3433, 0.4448** is the 20% darker color. If you saturate the color by 10%, you get **41.2791, 0.3438, 0.4451**, and if you desaturate by 10%, it is **43.7922, 0.3302, 0.3880**.

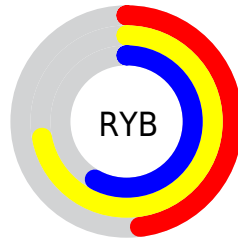
# Distribution



Red (62%)

Green (72%)

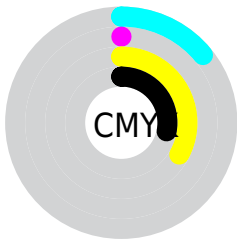
Blue (48%)



Red (48%)

Yellow (72%)

Blue (58%)

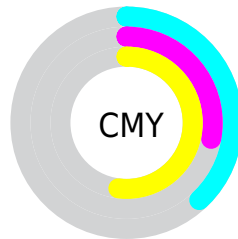


Cyan (14%)

Magenta (0%)

Yellow (33%)

Black (28%)



Cyan (38%)

Magenta (28%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.4651, 0.3374, 0.4163 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 42.4651, 0.3374, 0.4163 by changing the saturation by 10% instead.





 42.4651, 0.3374,  
0.4163


 42.4651, 0.3374,  
0.4163


356.4073, 0.3260,  
0.3705

 29.4657, 0.3398,  
0.4283


 78.9031, 0.3335,  
0.3992

 19.4334, 0.3426,  
0.4441


 103.1103, 0.3320,  
0.3929

 11.9838, 0.3458,  
0.4655


 131.8224, 0.3306,  
0.3877

 6.7327, 0.3487,  
0.4960

165.4235, 0.3295,  
0.3832

 3.2955, 0.3518,  
0.5455

204.2982, 0.3284,  
0.3794

 1.2879, 0.3531,  
0.6469

248.8308, 0.3275,

 0.1318, 0.0000,

0.3760

1.0000

299.4057, 0.3267,  
0.3731

0.0000, 0.0000,  
0.0000

42.4651, 0.3374,  
0.4163

42.4651, 0.3374,  
0.4163

41.2791, 0.3438,  
0.4451

43.7922, 0.3302,  
0.3880

40.2228, 0.3489,  
0.4734

45.2602, 0.3226,  
0.3609

39.2919, 0.3523,  
0.4999


46.8760, 0.3149,  
0.3357

38.4795, 0.3537,  
0.5232

48.6442, 0.3072,  
0.3124

37.7778, 0.3527,  
0.5421

50.5696, 0.2999,  
0.2913

 37.1775, 0.3495,  
0.5559

 52.6562, 0.2929,  
0.2722

 36.7949, 0.3462,  
0.5633

 54.9083, 0.2864,  
0.2551

 56.3668, 0.2897,  
0.2527

 57.6358, 0.2956,  
0.2540

# Harmonies

## Analogous

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



42.4651, 0.3808, 0.4104



42.4651, 0.3374, 0.4163



42.4651, 0.2894, 0.3930

# Triad

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



42.4651, 0.3374, 0.4163



42.4651, 0.2259, 0.2669



42.4651, 0.3778, 0.3073

# Complementary

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



42.4651, 0.3374, 0.4163



23.9754, 0.2804, 0.2399

# 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.



42.4651, 0.3312, 0.2754



42.4651, 0.3374, 0.4163



42.4651, 0.2452, 0.2519

# Square

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



42.4651, 0.3374, 0.4163



42.4651, 0.2273, 0.3009



42.4651, 0.2826, 0.2556



42.4651, 0.4063, 0.3454



# Rectangle

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



42.4651, 0.3374, 0.4163



42.4651, 0.2613, 0.3644



42.4651, 0.2826, 0.2556



42.4651, 0.3635, 0.2957

# Sweetspot

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



42.4670, 0.3374, 0.4163



81.7930, 0.3206, 0.3542



32.6788, 0.3759, 0.3645



17.9786, 0.3216, 0.3578



93.3107, 0.3127, 0.3290



18.7317, 0.3127, 0.3290



# Same Dimension

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



42.4670, 0.3374, 0.4163



74.5731, 0.3419, 0.4361



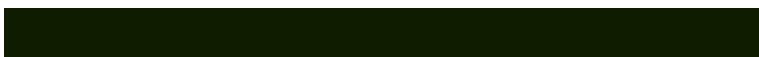
39.8865, 0.3123, 0.4235



10.3045, 0.3199, 0.3520



25.7104, 0.3470, 0.5627



0.9422, 0.3655, 0.5480



# Inverse Universe

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



23.9754, 0.2804, 0.2399



36.5490, 0.2717, 0.2192



27.0520, 0.3111, 0.2476



8.9045, 0.3050, 0.3058



3.5910, 0.1913, 0.0827



0.1633, 0.2217, 0.0995



# Previews

## White Background



This preview shows how the Yxy color 42.4651, 0.3374, 0.4163 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 42.4651, 0.3374, 0.4163 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 42.4651, 0.3374, 0.4163**

## Background



This preview shows how black text looks on a background with the Yxy color 42.4651, 0.3374, 0.4163.



This preview shows how white text looks on a background with the Yxy color 42.4651, 0.3374, 0.4163.

# 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

42.4651, 0.3374, 0.4163

### Protanopia

42.2954, 0.3732, 0.4026

### Deuteranopia

42.2916, 0.3870, 0.3798



## Tritanopia

42.4411, 0.2940, 0.3100

# Trichromacy



## Original Color

42.4651, 0.3374, 0.4163

## Protanomaly

42.1475, 0.3604, 0.4079

## Deuteranomaly

42.0849, 0.3676, 0.3922

## Tritanomaly

42.3439, 0.3101, 0.3473

# Monochromacy



## Original Color

42.4651, 0.3374, 0.4163

## Achromatopsia

39.1572, 0.3127, 0.3290

## Achromatomaly

40.0467, 0.3221, 0.3591

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.4651, 0.3374, 0.4163 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, 183, 123)` looks like.

```
.text, #text, p{  
    color:rgb(157, 183, 123)  
}
```

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, 183, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 183, 123) }
```

## Border

The CSS property to change the border of an element to Yxy 42.4651, 0.3374, 0.4163 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, 183, 123) }
```

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

```
.border{ border-color:rgb(157, 183, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 183, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 183, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 183, 123);  
box-shadow:4px 4px 4px 4px rgb(157, 183,  
123) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.4651, 0.3374, 0.4163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 183, 123) }
```

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

```
.background{ background-color: rgb(157,  
183, 123) }
```

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