

# Converting Colors

$Y_{xy}(46.8540, 0.3238, 0.3642)$

Have a look what the booklet for  
Yxy(46.8540, 0.3238, 0.3642)  
contains.

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# Color

**Yxy(46.7698, 0.3237, 0.3641)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AFBAA0
RGB	175, 186, 160
RGB Percent	69%, 73%, 63%
CMY	0.3138, 0.2705, 0.3725
CMYK	0.06, 0.00, 0.14, 0.27
HSL	85°, 16%, 68%
HSV	85°, 14%, 73%
XYZ	41.5803, 46.7698, 40.1031
YIQ	179.7470, 1.7900, -10.4180

# Conversions

## Conversions Part 2

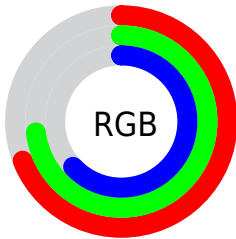
<b>Format</b>	<b>Color</b>
<b>RYB</b>	160, 186, 171
Decimal	11516576
CIELab	74.04, -8.55, 11.88
CIELCh	74, 14.638, 125.730
Yxy	46.7698, 0.3237, 0.3641
Android (android.graphics.Color)	4289706656 (0xFFAFBAA0)
YUV	179.7470, -9.7353, -4.1631
Hunter-Lab	68.3884, -11.1515, 13.1042

# Details

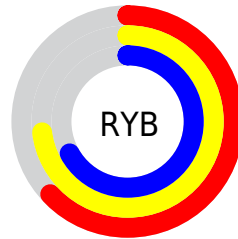
The Yxy color  $46.7698, 0.3237, 0.3641$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $37.3592, 0.3005, 0.2936$ , and the grayscale version is  $45.5512, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $85.3995, 0.3219, 0.3572$ , and  $21.9953, 0.3266, 0.3757$  is the 20% darker color. If you saturate the color by 10%, you get  $45.2814, 0.3314, 0.3913$ , and if you desaturate by 10%, it is  $48.4132, 0.3158, 0.3386$ .

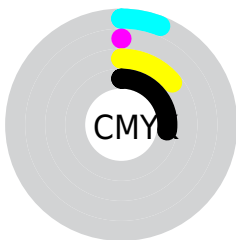
# Distribution



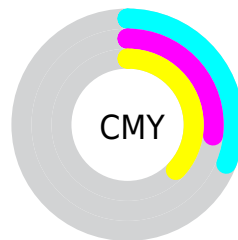
- Red (69%)
- Green (73%)
- Blue (63%)



- Red (63%)
- Yellow (73%)
- Blue (67%)



- Cyan (6%)
- Magenta (0%)
- Yellow (14%)
- Black (27%)




- Cyan (31%)
- Magenta (27%)
- Yellow (37%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.7698, 0.3237, 0.3641 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 46.7698, 0.3237, 0.3641 by changing the saturation by 10% instead.




 46.7698, 0.3237,  
0.3641

 46.7698, 0.3237,  
0.3641

373.8949, 0.3184,  
0.3463

 32.8537, 0.3250,  
0.3686


 85.3699, 0.3218,  
0.3576

 22.0144, 0.3266,  
0.3745


 110.8227, 0.3211,  
0.3551

 13.8675, 0.3287,  
0.3825


140.8899, 0.3205,  
0.3531

 8.0286, 0.3315,  
0.3937

175.9558, 0.3199,  
0.3513

 4.1132, 0.3353,  
0.4109

216.4049, 0.3195,  
0.3498

 1.7371, 0.3411,  
0.4404

262.6215, 0.3190,

 0.4475, 0.3262,

0.3485

0.6738

314.9900, 0.3187,  
0.3473

0.0000, 0.0000,  
0.0000

46.7698, 0.3237,  
0.3641

46.7698, 0.3237,  
0.3641

45.2814, 0.3314,  
0.3913

48.4132, 0.3158,  
0.3386

43.9366, 0.3387,  
0.4197

50.2103, 0.3081,  
0.3151

42.7319, 0.3451,  
0.4485

52.1679, 0.3006,  
0.2936

41.6613, 0.3502,  
0.4765

54.2904, 0.2934,  
0.2743

40.7183, 0.3535,  
0.5025

56.5822, 0.2867,  
0.2569

■ 39.8957, 0.3547,  
0.5252

■ 57.9295, 0.2912,  
0.2562

■ 39.1853, 0.3535,  
0.5434

■ 59.2089, 0.2971,  
0.2575

■ 38.5773, 0.3501,  
0.5563

■ 60.5475, 0.3031,  
0.2587

■ 38.2492, 0.3474,  
0.5624

■ 61.9461, 0.3091,  
0.2600

# Harmonies

## Analogous

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



46.7698, 0.3417, 0.3636



46.7698, 0.3237, 0.3641



46.7698, 0.3032, 0.3543

# Triad

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



46.7698, 0.3237, 0.3641



46.7698, 0.2747, 0.3029



46.7698, 0.3402, 0.3205

# Complementary

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



46.7698, 0.3237, 0.3641



37.3592, 0.3005, 0.2936

# 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.



46.7698, 0.3215, 0.3056



46.7698, 0.3237, 0.3641



46.7698, 0.2839, 0.2953

# Square

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



46.7698, 0.3237, 0.3641



46.7698, 0.2753, 0.3180



46.7698, 0.3008, 0.2965



46.7698, 0.3516, 0.3379



# Rectangle

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



46.7698, 0.3237, 0.3641



46.7698, 0.2908, 0.3433



46.7698, 0.3008, 0.2965



46.7698, 0.3346, 0.3151

# Sweetspot

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



46.7718, 0.3237, 0.3641



87.7118, 0.3159, 0.3388



42.0485, 0.3361, 0.3435



19.2639, 0.3165, 0.3407



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.



46.7718, 0.3237, 0.3641



83.8428, 0.3263, 0.3729



45.3619, 0.3128, 0.3653



10.3083, 0.3200, 0.3520



25.7747, 0.3483, 0.5617



0.9443, 0.3665, 0.5472



# Inverse Universe

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



37.3592, 0.3005, 0.2936



63.2218, 0.2973, 0.2845



38.8660, 0.3123, 0.2948



8.9009, 0.3049, 0.3058



3.5452, 0.1898, 0.0819



0.1616, 0.2204, 0.0988



# Previews

## White Background



This preview shows how the Yxy color 46.7698, 0.3237, 0.3641 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

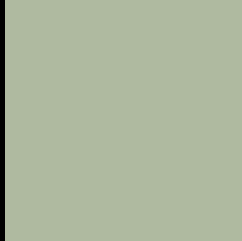
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.7698, 0.3237, 0.3641 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

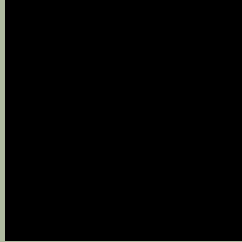
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

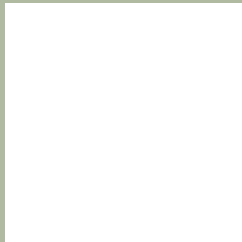
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.7698, 0.3237, 0.3641**

## Background



This preview shows how black text looks on a background with the Yxy color 46.7698, 0.3237, 0.3641.



This preview shows how white text looks on a background with the Yxy color 46.7698, 0.3237, 0.3641.

# 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

46.7698, 0.3237, 0.3641

### Protanopia

46.5927, 0.3404, 0.3590

### Deuteranopia

46.5340, 0.3531, 0.3453



## Tritanopia

46.6912, 0.3010, 0.3110

# Trichromacy



## Original Color

46.7698, 0.3237, 0.3641

## Protanomaly

46.6845, 0.3338, 0.3607

## Deuteranomaly

46.4155, 0.3419, 0.3522

## Tritanomaly

46.7093, 0.3093, 0.3303

# Monochromacy



## Original Color

46.7698, 0.3237, 0.3641

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.9380, 0.3164, 0.3410

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.7698, 0.3237, 0.3641 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(175, 186, 160)` looks like.

```
.text, #text, p{  
    color:rgb(175, 186, 160)  
}
```

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(175, 186, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 186, 160) }
```

## Border

The CSS property to change the border of an element to Yxy 46.7698, 0.3237, 0.3641 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(175, 186, 160) }
```

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

```
.border{ border-color:rgb(175, 186, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 186, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 186, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 186, 160);  
box-shadow:4px 4px 4px 4px rgb(175, 186,  
160) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.7698, 0.3237, 0.3641 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 186, 160) }
```

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

```
.background{ background-color: rgb(175,  
186, 160) }
```

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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