

# Converting Colors

$Y_{xy}(45.0990, 0.3240, 0.3477)$

Have a look what the booklet for  
Yxy(45.0990, 0.3240, 0.3477)  
contains.

<b>Yxy(45.0990, 0.3240, 0.3477)</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(45.0990, 0.3240, 0.3477)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4B4A6
RGB	180, 180, 166
RGB Percent	71%, 71%, 65%
CMY	0.2942, 0.2941, 0.3489
CMYK	0.00, 0.00, 0.08, 0.29
HSL	60°, 9%, 68%
HSV	60°, 8%, 71%
XYZ	42.0250, 45.0990, 42.5827
YIQ	178.4040, 4.4940, -4.3540

# Conversions

## Conversions Part 2

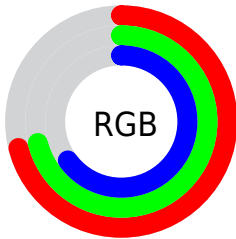
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">166, 180, 166</a>
Decimal	<a href="#">11842726</a>
CIELab	<a href="#">72.96, -2.52, 7.12</a>
CIELCh	<a href="#">73, 7.549, 109.516</a>
Yxy	<a href="#">45.0990, 0.3240, 0.3477</a>
Android (android.graphics.Color)	<a href="#">4290032806</a> ( <a href="#">0xFFB4B4A6</a> )
YUV	<a href="#">178.4040, -6.1152, 1.3997</a>
Hunter-Lab	<a href="#">67.1558, -5.8204, 9.4140</a>

# Details

The Yxy color **45.0990, 0.3240, 0.3477** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **38.6951, 0.3010, 0.3096**, and the grayscale version is **44.7776, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0442, 0.3221, 0.3445**, and **20.9057, 0.3272, 0.3530** is the 20% darker color. If you saturate the color by 10%, you get **44.4808, 0.3389, 0.3724**, and if you desaturate by 10%, it is **45.8136, 0.3095, 0.3237**.

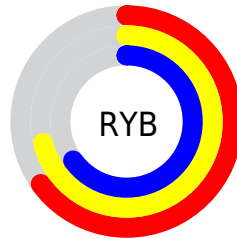
# Distribution



Red (71%)

Green (71%)

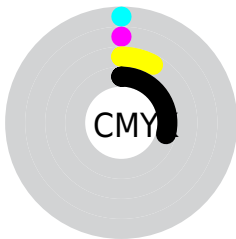
Blue (65%)



Red (65%)

Yellow (71%)

Blue (65%)

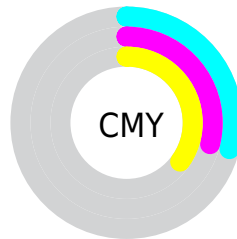


Cyan (0%)

Magenta (0%)

Yellow (8%)

Black (29%)



Cyan (29%)

Magenta (29%)


Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0990, 0.3240, 0.3477 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 45.0990, 0.3240, 0.3477 by changing the saturation by 10% instead.





 45.0990, 0.3240,  
0.3477

 45.0990, 0.3240,  
0.3477


367.1744, 0.3184,  
0.3382

 31.5354, 0.3254,  
0.3501


 82.8690, 0.3219,  
0.3442

 21.0069, 0.3272,  
0.3532

 107.8441, 0.3212,  
0.3429

 13.1290, 0.3297,  
0.3574


137.3919, 0.3205,  
0.3419

 7.5175, 0.3330,  
0.3633

171.8967, 0.3200,  
0.3409

 3.7878, 0.3381,  
0.3722

211.7430, 0.3195,  
0.3401

 1.5556, 0.3465,  
0.3875

257.3151, 0.3191,

 0.3274, 0.4326,

0.3394

0.5674

308.9974, 0.3187,  
0.3388

0.0000, 0.0000,  
0.0000

45.0990, 0.3240,  
0.3477

45.0990, 0.3240,  
0.3477

44.4808, 0.3389,  
0.3724

45.8136, 0.3095,  
0.3237

43.9494, 0.3538,  
0.3972

46.6222, 0.2958,  
0.3009

43.5025, 0.3683,  
0.4212

47.5304, 0.2829,  
0.2796

43.1358, 0.3818,  
0.4437

48.5413, 0.2710,  
0.2599

42.8444, 0.3938,  
0.4635

49.5908, 0.2607,  
0.2429

■ 42.6231, 0.4036,  
0.4799

■ 49.5957, 0.2607,  
0.2429

■ 42.4659, 0.4110,  
0.4923

■ 49.6006, 0.2608,  
0.2429

■ 42.3657, 0.4159,  
0.5004

■ 49.6055, 0.2608,  
0.2429

■ 42.3116, 0.4185,  
0.5048

■ 49.6103, 0.2608,  
0.2429

# Harmonies

## Analogous

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



45.0990, 0.3314, 0.3449



45.0990, 0.3240, 0.3477



45.0990, 0.3137, 0.3453

# Triad

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



45.0990, 0.3240, 0.3477



45.0990, 0.2921, 0.3195



45.0990, 0.3221, 0.3200

# Complementary

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



45.0990, 0.3240, 0.3477



38.6951, 0.3010, 0.3096

# 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.



45.0990, 0.3115, 0.3134



45.0990, 0.3240, 0.3477



45.0990, 0.2943, 0.3130

# Square

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



45.0990, 0.3240, 0.3477



45.0990, 0.2954, 0.3287



45.0990, 0.3013, 0.3109



45.0990, 0.3303, 0.3289



# Rectangle

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



45.0990, 0.3240, 0.3477



45.0990, 0.3065, 0.3410



45.0990, 0.3013, 0.3109



45.0990, 0.3187, 0.3174

# Sweetspot

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



45.1010, 0.3240, 0.3477



82.4882, 0.3156, 0.3338



39.7440, 0.3258, 0.3290



17.8317, 0.3155, 0.3336



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



45.1010, 0.3240, 0.3477



81.6028, 0.3261, 0.3511



44.2871, 0.3179, 0.3480



9.9057, 0.3263, 0.3515



29.5213, 0.4189, 0.5056



0.9292, 0.4191, 0.5055



# Inverse Universe

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



38.6951, 0.3010, 0.3096



68.0345, 0.2988, 0.3059



39.4676, 0.3072, 0.3100



8.2310, 0.2985, 0.3055



2.3021, 0.1501, 0.0601



0.0727, 0.1505, 0.0603



# Previews

## White Background



This preview shows how the Yxy color 45.0990, 0.3240, 0.3477 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

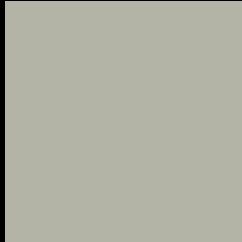
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.0990, 0.3240, 0.3477 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

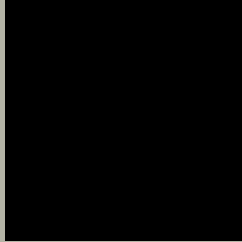
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

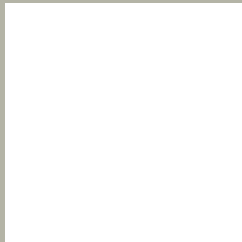
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.0990, 0.3240, 0.3477**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.0990, 0.3240, 0.3477.



This preview shows how white text looks on a background with the Yxy color 45.0990, 0.3240, 0.3477.

# 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

45.0990, 0.3240, 0.3477

### Protanopia

44.8717, 0.3296, 0.3462

### Deuteranopia

45.0947, 0.3435, 0.3367



## Tritanopia

44.9587, 0.3084, 0.3109

# Trichromacy



## Original Color

45.0990, 0.3240, 0.3477

## Protanomaly

45.0241, 0.3277, 0.3476

## Deuteranomaly

45.1781, 0.3355, 0.3407

## Tritanomaly

44.8478, 0.3147, 0.3238

# Monochromacy



## Original Color

45.0990, 0.3240, 0.3477

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

44.8799, 0.3167, 0.3357

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0990, 0.3240, 0.3477 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(180, 180, 166)` looks like.

```
.text, #text, p{  
    color:rgb(180, 180, 166)  
}
```

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(180, 180, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 180, 166) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0990, 0.3240, 0.3477 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(180, 180, 166) }
```

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

```
.border{ border-color:rgb(180, 180, 166) }
```

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

Here you see how a box with a 4 pixel rgb(180, 180, 166) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 180, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 180, 166);  
box-shadow:4px 4px 4px 4px rgb(180, 180,  
166) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0990, 0.3240, 0.3477 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 180, 166) }
```

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

```
.background{ background-color: rgb(180,  
180, 166) }
```

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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