

# Converting Colors

$Y_{xy}(45.1554, 0.3225, 0.3510)$

Have a look what the booklet for  
Yxy(45.1554, 0.3225, 0.3510)  
contains.

<b>Yxy(45.1115, 0.3221, 0.3506)</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(45.1115, 0.3221, 0.3506)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1B5A5
RGB	177, 181, 165
RGB Percent	69%, 71%, 65%
CMY	0.3059, 0.2902, 0.3530
CMYK	0.02, 0.00, 0.09, 0.29
HSL	75°, 10%, 68%
HSV	75°, 9%, 71%
XYZ	41.4444, 45.1115, 42.1135
YIQ	177.9800, 2.7520, -5.8240

# Conversions

## Conversions Part 2

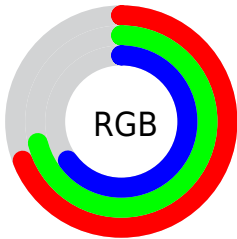
Format	Color
<b>RYB</b>	165, 181, 169
Decimal	11646373
CIELab	72.97, -4.32, 7.67
CIELCh	73, 8.802, 119.390
Yxy	45.1115, 0.3221, 0.3506
Android (android.graphics.Color)	4289836453 (0xFFB1B5A5)
YUV	177.9800, -6.3991, -0.8595
Hunter-Lab	67.1651, -7.3950, 9.8399

# Details

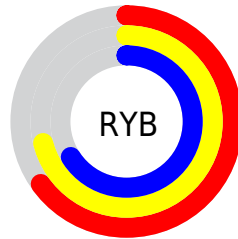
The Yxy color **45.1115, 0.3221, 0.3506** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **38.6774, 0.3028, 0.3069**, and the grayscale version is **44.5430, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0593, 0.3206, 0.3467**, and **20.9157, 0.3245, 0.3570** is the 20% darker color. If you saturate the color by 10%, you get **43.9764, 0.3328, 0.3763**, and if you desaturate by 10%, it is **46.3615, 0.3115, 0.3263**.

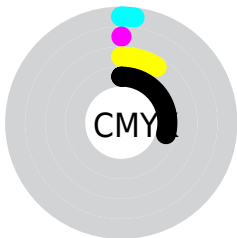
# Distribution



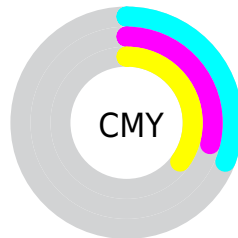
- Red (69%)
- Green (71%)
- Blue (65%)



- Red (65%)
- Yellow (71%)
- Blue (66%)



- Cyan (2%)
- Magenta (0%)
- Yellow (9%)
- Black (29%)




- Cyan (31%)
- Magenta (29%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1115, 0.3221, 0.3506 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 45.1115, 0.3221, 0.3506 by changing the saturation by 10% instead.




 45.1115, 0.3221,  
0.3506

 45.1115, 0.3221,  
0.3506


367.2249, 0.3174,  
0.3396

 31.5453, 0.3233,  
0.3534


 82.8877, 0.3204,  
0.3466

 21.0144, 0.3247,  
0.3570


 107.8665, 0.3198,  
0.3451

 13.1345, 0.3267,  
0.3619


137.4182, 0.3192,  
0.3438

 7.5212, 0.3294,  
0.3688

171.9272, 0.3188,  
0.3427

 3.7902, 0.3335,  
0.3794

211.7781, 0.3184,  
0.3418

 1.5569, 0.3400,  
0.3975

257.3550, 0.3180,

 0.3283, 0.3862,

0.3410

0.6138

309.0425, 0.3177,  
0.3403

0.0000, 0.0000,  
0.0000

45.1115, 0.3221,  
0.3506

45.1115, 0.3221,  
0.3506

43.9764, 0.3328,  
0.3763

46.3615, 0.3115,  
0.3263

42.9463, 0.3434,  
0.4029

47.7244, 0.3013,  
0.3036

42.0187, 0.3533,  
0.4296

49.2058, 0.2916,  
0.2828

41.1891, 0.3622,  
0.4555

50.8091, 0.2825,  
0.2638

40.4523, 0.3695,  
0.4796

52.5060, 0.2744,  
0.2471

■ 39.8027, 0.3747,  
0.5007

■ 53.1387, 0.2777,  
0.2478

■ 39.2339, 0.3775,  
0.5179

■ 53.7901, 0.2810,  
0.2486

■ 38.7384, 0.3778,  
0.5305

■ 54.4603, 0.2843,  
0.2494

■ 38.3033, 0.3759,  
0.5390

■ 55.1495, 0.2877,  
0.2501

# Harmonies

## Analogous

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



45.1115, 0.3322, 0.3493



45.1115, 0.3221, 0.3506



45.1115, 0.3096, 0.3459

# Triad

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



45.1115, 0.3221, 0.3506



45.1115, 0.2889, 0.3149



45.1115, 0.3273, 0.3217

# Complementary

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



45.1115, 0.3221, 0.3506



38.6774, 0.3028, 0.3069

# 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.



45.1115, 0.3155, 0.3130



45.1115, 0.3221, 0.3506



45.1115, 0.2934, 0.3089

# Square

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



45.1115, 0.3221, 0.3506



45.1115, 0.2906, 0.3249



45.1115, 0.3031, 0.3083



45.1115, 0.3353, 0.3324



# Rectangle

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



45.1115, 0.3221, 0.3506



45.1115, 0.3017, 0.3399



45.1115, 0.3031, 0.3083



45.1115, 0.3237, 0.3185

# Sweetspot

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



45.1135, 0.3221, 0.3506



82.0610, 0.3159, 0.3363



40.9140, 0.3273, 0.3345



17.6976, 0.3168, 0.3382



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.



45.1135, 0.3221, 0.3506



80.2967, 0.3246, 0.3565



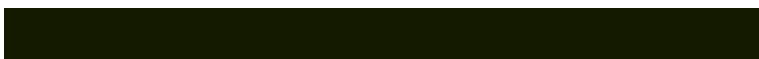
44.2014, 0.3151, 0.3511



9.7973, 0.3226, 0.3518



26.4037, 0.3763, 0.5395



0.8564, 0.3889, 0.5294



# Inverse Universe

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



38.6774, 0.3028, 0.3069



65.9618, 0.3000, 0.3008



39.5896, 0.3101, 0.3074



8.3296, 0.3023, 0.3057



2.7186, 0.1657, 0.0687



0.1136, 0.1960, 0.0854



# Previews

## White Background



This preview shows how the Yxy color 45.1115, 0.3221, 0.3506 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

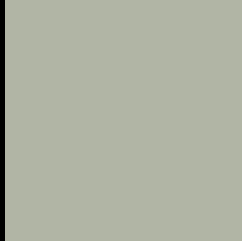
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1115, 0.3221, 0.3506 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

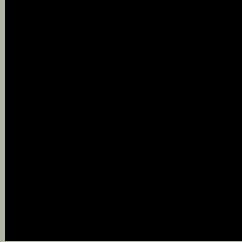
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

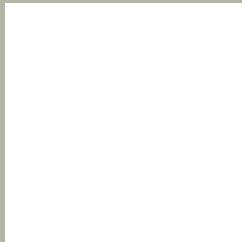
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.1115, 0.3221, 0.3506**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1115, 0.3221, 0.3506.



This preview shows how white text looks on a background with the Yxy color 45.1115, 0.3221, 0.3506.

# 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

45.1115, 0.3221, 0.3506

### Protanopia

44.9602, 0.3314, 0.3475

### Deuteranopia

45.0947, 0.3435, 0.3367



## Tritanopia

45.0296, 0.3050, 0.3108

# Trichromacy



## Original Color

45.1115, 0.3221, 0.3506

## Protanomaly

44.9878, 0.3285, 0.3490

## Deuteranomaly

45.0103, 0.3355, 0.3420

## Tritanomaly

44.9215, 0.3112, 0.3237

# Monochromacy



## Original Color

45.1115, 0.3221, 0.3506

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

44.7223, 0.3167, 0.3370

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1115, 0.3221, 0.3506 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(177, 181, 165)` looks like.

```
.text, #text, p{  
    color:rgb(177, 181, 165)  
}
```

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(177, 181, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 181, 165) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1115, 0.3221, 0.3506 is called "border". The border property can be set on classes, ids or directly on the HTML element.

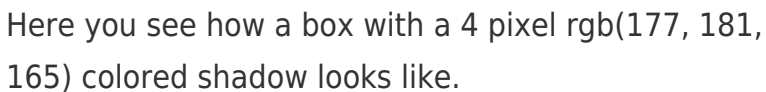
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(177, 181, 165) }
```

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

```
.border{ border-color:rgb(177, 181, 165) }
```

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



Here you see how a box with a 4 pixel `rgb(177, 181, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(177, 181, 165); -webkit-box-shadow:4px 4px 4px 4px rgb(177, 181, 165); box-shadow:4px 4px 4px 4px rgb(177, 181, 165) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.1115, 0.3221, 0.3506 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 181, 165) }
```

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

```
.background{ background-color: rgb(177,  
181, 165) }
```

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