

# Converting Colors

$Y_{xy}(23.7188, 0.4163, 0.3324)$

Have a look what the booklet for  
Yxy(23.7188, 0.4163, 0.3324)  
contains.

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# Color

**Yxy(23.7768, 0.4157, 0.3321)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BD716F
RGB	189, 113, 111
RGB Percent	74%, 44%, 44%
CMY	0.2588, 0.5569, 0.5647
CMYK	0.00, 0.40, 0.41, 0.26
HSL	2°, 37%, 59%
HSV	2°, 41%, 74%
XYZ	29.7622, 23.7768, 18.0563
YIQ	135.4960, 45.9380, 15.4900

# Conversions

## Conversions Part 2

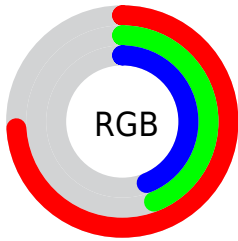
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	189, 113, 111
Decimal	12415343
CIE Lab	55.86, 29.77, 14.02
CIE LCh	56, 32.910, 25.219
Yxy	23.7768, 0.4157, 0.3321
Android (android.graphics.Color)	4290605423 (0xFFBD716F)
YUV	135.4960, -12.0765, 46.9230
Hunter-Lab	48.7615, 23.6172, 12.1780

# Details

The Yxy color **23.7768, 0.4157, 0.3321** is a dark color, and the websafe version is hex **CC6666**. A complement of this color would be **42.5941, 0.2564, 0.3259**, and the grayscale version is **24.4559, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.6909, 0.3921, 0.3325**, and **8.9004, 0.4570, 0.3294** is the 20% darker color. If you saturate the color by 10%, you get **19.7045, 0.4557, 0.3328**, and if you desaturate by 10%, it is **28.7731, 0.3821, 0.3313**.

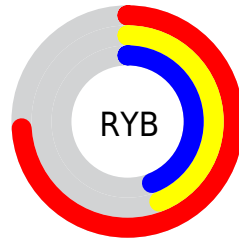
# Distribution



Red (74%)

Green (44%)

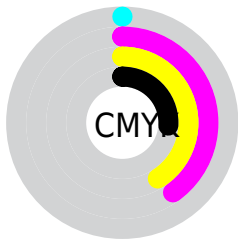
Blue (44%)



Red (74%)

Yellow (44%)

Blue (44%)

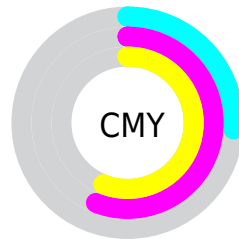


Cyan (0%)

Magenta (40%)

Yellow (41%)

Black (26%)



Cyan (26%)

Magenta (56%)


Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.7768, 0.4157, 0.3321 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 23.7768, 0.4157, 0.3321 by changing the saturation by 10% instead.




 23.7768, 0.4157,  
0.3321


 23.7768, 0.4157,  
0.3321


271.6901, 0.3579,  
0.3322


 15.1681, 0.4325,  
0.3312


 49.6657, 0.3930,  
0.3327

 8.9375, 0.4556,  
0.3294


 67.7148, 0.3850,  
0.3327

 4.7004, 0.4891,  
0.3255

 89.6794, 0.3785,  
0.3327

 2.0726, 0.5415,  
0.3163

 115.9440, 0.3730,  
0.3326

 0.6491, 0.6908,  
0.3092

146.8930, 0.3684,  
0.3325

 0.0000, 1.0000,  
0.0000

182.9107, 0.3644,

 0.0000, 0.0000,


0.3324


0.0000


224.3816, 0.3609,  
0.3323


 23.7768, 0.4157,  
0.3321


 23.7768, 0.4157,  
0.3321


 19.7045, 0.4557,  
0.3328


 28.7731, 0.3821,  
0.3313


 16.4964, 0.5009,  
0.3332


 34.7414, 0.3547,  
0.3305


 14.0911, 0.5479,  
0.3333


 41.7307, 0.3325,  
0.3298

 12.4176, 0.5906,  
0.3328

 49.7856, 0.3147,  
0.3291

 11.3929, 0.6220,  
0.3319

 58.9480, 0.3004,  
0.3285

 10.9260, 0.6383,  
0.3314

 69.2578, 0.2889,  
0.3279

 80.7527, 0.2795,  
0.3274

 89.5602, 0.2747,  
0.3289

# Harmonies

## Analogous

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



23.7768, 0.3728, 0.2900



23.7768, 0.4157, 0.3321



23.7768, 0.4272, 0.3767

# Triad

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



23.7768, 0.4157, 0.3321



23.7768, 0.3027, 0.4188



23.7768, 0.2242, 0.2423

# Complementary

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



23.7768, 0.4157, 0.3321



42.5941, 0.2564, 0.3259

# 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.



23.7768, 0.2098, 0.2662



23.7768, 0.4157, 0.3321



23.7768, 0.2519, 0.3707

# Square

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



23.7768, 0.4157, 0.3321



23.7768, 0.3589, 0.4339



23.7768, 0.2191, 0.3121



23.7768, 0.2607, 0.2402



# Rectangle

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



23.7768, 0.4157, 0.3321



23.7768, 0.4158, 0.4037



23.7768, 0.2191, 0.3121



23.7768, 0.2168, 0.2477

# Sweetspot

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



23.7780, 0.4157, 0.3321



73.5092, 0.3343, 0.3299



25.8051, 0.3188, 0.2303



15.4397, 0.3370, 0.3299



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.



23.7780, 0.4157, 0.3321



35.5997, 0.4536, 0.3328



34.1977, 0.3931, 0.3844



9.5747, 0.3288, 0.3296



7.3677, 0.6378, 0.3318



0.3023, 0.6292, 0.3386



# Inverse Universe

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



42.5941, 0.2564, 0.3259



74.0405, 0.2466, 0.3251



28.4534, 0.2468, 0.2656



10.7662, 0.2985, 0.3284



25.5916, 0.2225, 0.3210

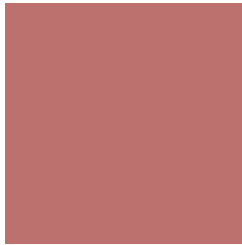


1.0159, 0.2231, 0.3230



# Previews

## White Background



This preview shows how the Yxy color 23.7768, 0.4157, 0.3321 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

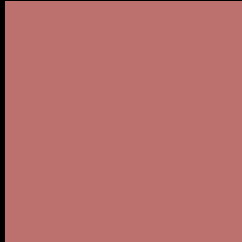
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 23.7768, 0.4157, 0.3321 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 × Fail

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

**Yxy 23.7768, 0.4157, 0.3321**

## Background



This preview shows how black text looks on a background with the Yxy color 23.7768, 0.4157, 0.3321.



This preview shows how white text looks on a background with the Yxy color 23.7768, 0.4157, 0.3321.

# 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

23.7768, 0.4157, 0.3321

### Protanopia

24.0061, 0.3336, 0.3514

### Deuteranopia

23.8511, 0.3698, 0.3634



## Tritanopia

23.8916, 0.4051, 0.3182

# Trichromacy



## Original Color

23.7768, 0.4157, 0.3321

## Protanomaly

23.4752, 0.3627, 0.3437

## Deuteranomaly

23.5949, 0.3866, 0.3509

## Tritanomaly

23.8198, 0.4092, 0.3224

# Monochromacy



## Original Color

23.7768, 0.4157, 0.3321

## Achromatopsia

24.2281, 0.3127, 0.3290

## Achromatomaly

23.6537, 0.3478, 0.3307

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.7768, 0.4157, 0.3321 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(189, 113, 111)` looks like.

```
.text, #text, p{  
    color:rgb(189, 113, 111)  
}
```

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(189, 113, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 113, 111) }
```

## Border

The CSS property to change the border of an element to Yxy 23.7768, 0.4157, 0.3321 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(189, 113, 111) }
```

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

```
.border{ border-color:rgb(189, 113, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 113, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 113, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 113, 111);  
box-shadow:4px 4px 4px 4px rgb(189, 113,  
111) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.7768, 0.4157, 0.3321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 113, 111) }
```

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

```
.background{ background-color: rgb(189,  
113, 111) }
```

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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