

Converting Colors

$Y_{xy}(12.7417, 0.4501, 0.4157)$

Have a look what the booklet for
Yxy(12.7417, 0.4501, 0.4157)
contains.

Yxy(12.7417, 0.4501, 0.4157)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.7417, 0.4501, 0.4157)

Conversions

Conversions Part 1

Format	Color
Hex	845C2C
RGB	132, 92, 44
RGB Percent	52%, 36%, 17%
CMY	0.4824, 0.6392, 0.8275
CMYK	0.00, 0.30, 0.67, 0.48
HSL	33°, 50%, 35%
HSV	33°, 67%, 52%
XYZ	13.7961, 12.7417, 4.1134
YIQ	98.4880, 39.2480, -6.4480

Conversions

Conversions Part 2

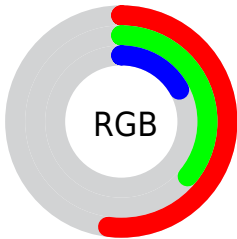
Format	Color
RYB	117, 132, 44
Decimal	8674348
CIELab	42.37, 11.17, 33.53
CIElCh	42, 35.343, 71.578
Yxy	12.7417, 0.4501, 0.4157
Android (android.graphics.Color)	4286864428 (0xFF845C2C)
YUV	98.4880, -26.8626, 29.3900
Hunter-Lab	35.6955, 6.5220, 18.1546

Details

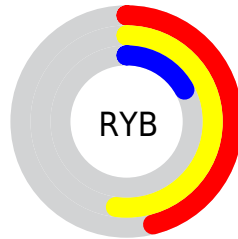
The Yxy color **12.7417, 0.4501, 0.4157** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **8.5359, 0.2096, 0.2137**, and the grayscale version is **12.4033, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.8101, 0.4172, 0.3974**, and **3.6163, 0.5065, 0.4360** is the 20% darker color. If you saturate the color by 10%, you get **11.6602, 0.4744, 0.4226**, and if you desaturate by 10%, it is **13.9383, 0.4254, 0.4054**.

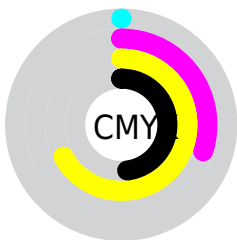
Distribution



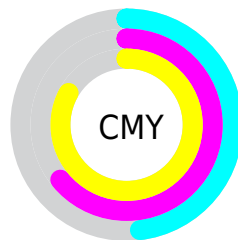
- Red (52%)
- Green (36%)
- Blue (17%)



- Red (46%)
- Yellow (52%)
- Blue (17%)



- Cyan (0%)
- Magenta (30%)
- Yellow (67%)
- Black (48%)





- Cyan (48%)
- Magenta (64%)
- Yellow (83%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7417, 0.4501, 0.4157 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 12.7417, 0.4501, 0.4157 by changing the saturation by 10% instead.


 12.7417, 0.4501,
0.4157


 12.7417, 0.4501,
0.4157


209.2556, 0.3687,
0.3683


 7.2509, 0.4741,
0.4266


 30.8390, 0.4174,
0.3983

 3.6195, 0.5131,
0.4437

 44.2142, 0.4060,
0.3917

 1.4631, 0.5527,
0.4473

 60.9864, 0.3968,
0.3861

 0.2625, 0.6654,
0.3346

 81.5400, 0.3892,
0.3814

 0.0000, 0.0000,
0.0000

 106.2593, 0.3828,
0.3774

 135.5287, 0.3774,

0.3739

169.7327, 0.3727,
0.3709

■ 12.7417, 0.4501,
0.4157

■ 12.7417, 0.4501,
0.4157

■ 11.6602, 0.4744,
0.4226

■ 13.9383, 0.4254,
0.4054

■ 10.6868, 0.4969,
0.4252

■ 15.2527, 0.4014,
0.3930

■ 9.8146, 0.5169,
0.4232

■ 16.6897, 0.3789,
0.3792

■ 9.5430, 0.5237,
0.4224

■ 18.2531, 0.3582,
0.3651

■ 19.9467, 0.3395,
0.3511

■ 21.7741, 0.3228,
0.3376

■ 23.7384, 0.3080,
0.3249

■ 25.8431, 0.2950,
0.3129

■ 28.0911, 0.2835,
0.3019

Harmonies

Analogous

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



12.7417, 0.4624, 0.3605



12.7417, 0.4501, 0.4157



12.7417, 0.4002, 0.4588

Triad

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



12.7417, 0.4501, 0.4157



12.7417, 0.2070, 0.3395



12.7417, 0.2801, 0.2255

Complementary

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



12.7417, 0.4501, 0.4157



8.5359, 0.2096, 0.2137

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.



12.7417, 0.2209, 0.2138



12.7417, 0.4501, 0.4157



12.7417, 0.1830, 0.2686

Square

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



12.7417, 0.4501, 0.4157



12.7417, 0.2596, 0.4195



12.7417, 0.1881, 0.2268



12.7417, 0.3569, 0.2580

Rectangle

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



12.7417, 0.4501, 0.4157



12.7417, 0.3547, 0.4694



12.7417, 0.1881, 0.2268



12.7417, 0.2577, 0.2191

Sweetspot

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



12.7423, 0.4501, 0.4157



33.9897, 0.3463, 0.3563



7.3616, 0.4185, 0.2555



7.7463, 0.3508, 0.3597



67.3860, 0.3127, 0.3290



9.4630, 0.3127, 0.3290

Same Dimension

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



12.7423, 0.4501, 0.4157



19.6431, 0.4862, 0.4245



21.3531, 0.3976, 0.4779



5.0785, 0.3267, 0.3409



9.2523, 0.5235, 0.4225



0.0467, 0.4692, 0.4656

Inverse Universe

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



8.5359, 0.2096, 0.2137



11.6913, 0.1909, 0.1828



4.0682, 0.1913, 0.1249



4.8672, 0.2992, 0.3169



4.7493, 0.1744, 0.1479



0.0307, 0.1966, 0.2276

Previews

White Background



This preview shows how the Yxy color 12.7417, 0.4501, 0.4157 looks on a white 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

Black Background



This preview shows how the Yxy color 12.7417, 0.4501, 0.4157 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

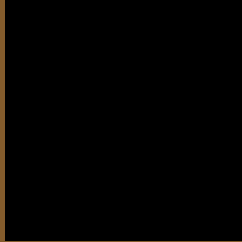
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7417, 0.4501, 0.4157

Background



This preview shows how black text looks on a background with the Yxy color 12.7417, 0.4501, 0.4157.



This preview shows how white text looks on a background with the Yxy color 12.7417, 0.4501, 0.4157.

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

12.7417, 0.4501, 0.4157

Protanopia

12.8921, 0.4018, 0.4419

Deuteranopia

12.7188, 0.4363, 0.4274



Tritanopia

12.7576, 0.3830, 0.3178

Trichromacy



Original Color

12.7417, 0.4501, 0.4157

Protanomaly

12.8546, 0.4194, 0.4323

Deuteranomaly

12.7690, 0.4424, 0.4234

Tritanomaly

12.7211, 0.4106, 0.3560

Monochromacy



Original Color

12.7417, 0.4501, 0.4157

Achromatopsia

12.2139, 0.3127, 0.3290

Achromatomaly

12.2308, 0.3616, 0.3689

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7417, 0.4501, 0.4157 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(132, 92, 44)` looks like.

```
.text, #text, p{  
  color:rgb(132, 92, 44)  
}
```

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(132, 92, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 92, 44) }
```

Border

The CSS property to change the border of an element to Yxy 12.7417, 0.4501, 0.4157 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(132, 92, 44) }
```

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

```
.border{ border-color:rgb(132, 92, 44) }
```

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

Here you see how a box with a 4 pixel rgb(132, 92, 44) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 92, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 92, 44);  
box-shadow:4px 4px 4px 4px rgb(132, 92,  
44) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7417, 0.4501, 0.4157 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 92, 44) }
```

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

```
.background{ background-color: rgb(132, 92,  
44) }
```

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