

Converting Colors

$Y_{xy}(12.9694, 0.3801, 0.4529)$

Have a look what the booklet for
Yxy(12.9694, 0.3801, 0.4529)
contains.

Yxy(12.8891, 0.3804, 0.4510) 3

***Conversions* 4**

***Details* 6**

***Harmonies* 12**

***Previews* 24**

***Color Blindness Simulation* 27**

***CSS Examples* 30**

Color

$\text{Yxy}(12.8891, 0.3804, 0.4510)$

Conversions

Conversions Part 1	
Format	Color
Hex	656831
RGB	101, 104, 49
RGB Percent	40%, 41%, 19%
CMY	0.6039, 0.5921, 0.8079
CMYK	0.03, 0.00, 0.53, 0.59
HSL	63°, 36%, 30%
HSV	63°, 53%, 41%
XYZ	10.8714, 12.8891, 4.8184
YIQ	96.8330, 15.8670, -17.7410

Conversions

Conversions Part 2

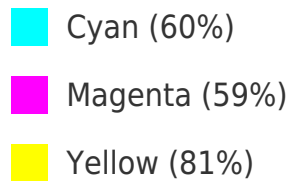
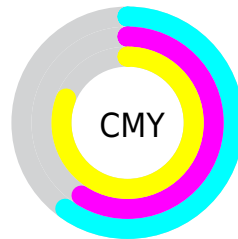
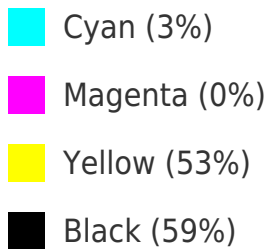
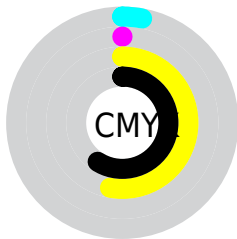
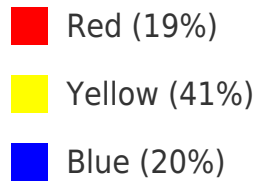
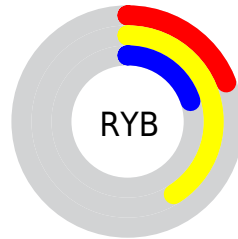
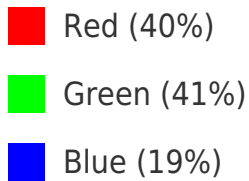
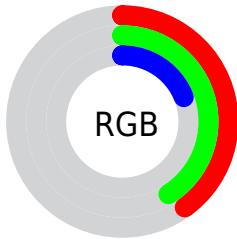
Format	Color
RYB	49, 104, 52
Decimal	6645809
CIELab	42.60, -9.86, 30.28
CIELCh	43, 31.849, 108.031
Yxy	12.8891, 0.3804, 0.4510
Android (android.graphics.Color)	4284835889 (0xFF656831)
YUV	96.8330, -23.5817, 3.6545
Hunter-Lab	35.9014, -8.7752, 17.1735

Details

The Yxy color **12.8891, 0.3804, 0.4510** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **3.9242, 0.2225, 0.1742**, and the grayscale version is **11.9669, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0781, 0.3652, 0.4201**, and **3.6607, 0.4035, 0.5111** is the 20% darker color. If you saturate the color by 10%, you get **12.7792, 0.3904, 0.4701**, and if you desaturate by 10%, it is **13.0207, 0.3688, 0.4295**.


Distribution




Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8891, 0.3804, 0.4510 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 12.8891, 0.3804, 0.4510 by changing the saturation by 10% instead.


 12.8891, 0.3804,
0.4510


 12.8891, 0.3804,
0.4510


210.2057, 0.3419,
0.3768


 7.3522, 0.3905,
0.4748


 31.1044, 0.3655,
0.4202


 3.6833, 0.4046,
0.5113


 44.5516, 0.3602,
0.4099

 1.4981, 0.4253,
0.5747

 61.4044, 0.3557,
0.4016

 0.2874, 0.1015,
0.8985

 82.0472, 0.3520,
0.3948


 0.0000, 0.0000,
0.0000


 106.8643, 0.3489,
0.3892

 136.2401, 0.3462,


0.3844

170.5591, 0.3439,
0.3803


 12.8891, 0.3804,
0.4510


 12.8891, 0.3804,
0.4510

 12.7792, 0.3904,
0.4701


 13.0207, 0.3688,
0.4295

 12.6878, 0.3986,
0.4861


 13.1735, 0.3562,
0.4065

 12.6138, 0.4045,
0.4984

 13.3492, 0.3430,
0.3827

 12.5551, 0.4081,
0.5070

 13.5490, 0.3296,
0.3588

 12.5164, 0.4103,
0.5124

 13.7739, 0.3165,
0.3356

■ 14.0248, 0.3038,
0.3133

■ 14.3026, 0.2917,
0.2923

■ 14.6083, 0.2804,
0.2728

■ 14.9426, 0.2700,
0.2548

Harmonies

Analogous

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



12.8891, 0.4302, 0.4189



12.8891, 0.3804, 0.4510



12.8891, 0.3154, 0.4459

Triad

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



12.8891, 0.3804, 0.4510



12.8891, 0.1932, 0.2647



12.8891, 0.3677, 0.2729

Complementary

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



12.8891, 0.3804, 0.4510



3.9242, 0.2225, 0.1742

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.



12.8891, 0.2978, 0.2394



12.8891, 0.3804, 0.4510



12.8891, 0.2034, 0.2317

Square

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



12.8891, 0.3804, 0.4510



12.8891, 0.2098, 0.3239



12.8891, 0.2392, 0.2244



12.8891, 0.4258, 0.3190

Rectangle

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



12.8891, 0.3804, 0.4510



12.8891, 0.2725, 0.4164



12.8891, 0.2392, 0.2244



12.8891, 0.3444, 0.2600

Sweetspot

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



12.8897, 0.3804, 0.4510



23.6399, 0.3344, 0.3673



5.5970, 0.4488, 0.3358



5.7549, 0.3363, 0.3707



55.4222, 0.3127, 0.3290



5.9254, 0.3127, 0.3290

Same Dimension

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



12.8897, 0.3804, 0.4510



22.3862, 0.3921, 0.4734



11.5684, 0.3381, 0.4707



3.2607, 0.3243, 0.3494



15.4236, 0.4102, 0.5125



80.3177, 0.4097, 0.5129

Inverse Universe

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



3.9242, 0.2225, 0.1742



4.8375, 0.1997, 0.1364



4.8674, 0.2695, 0.1917



2.7702, 0.3006, 0.3078



1.2724, 0.1529, 0.0616



6.5130, 0.1512, 0.0607

Previews

White Background



This preview shows how the Yxy color 12.8891, 0.3804, 0.4510 looks on a white background.

Color Contrast Check

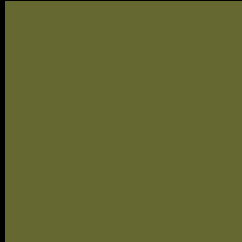
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8891, 0.3804, 0.4510 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 12.8891, 0.3804, 0.4510

Background



This preview shows how black text looks on a background with the Yxy color 12.8891, 0.3804, 0.4510.



This preview shows how white text looks on a background with the Yxy color 12.8891, 0.3804, 0.4510.

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

12.8891, 0.3804, 0.4510

Protanopia

12.9003, 0.4006, 0.4401

Deuteranopia

12.8898, 0.4235, 0.4170



Tritanopia

12.9018, 0.3150, 0.3118

Trichromacy



Original Color
12.8891, 0.3804, 0.4510

Protanomaly
12.8419, 0.3931, 0.4449

Deuteranomaly
12.8670, 0.4085, 0.4294

Tritanomaly
12.7735, 0.3413, 0.3627

Monochromacy



Original Color
12.8891, 0.3804, 0.4510

Achromatopsia
11.9538, 0.3127, 0.3290

Achromatomaly
12.2902, 0.3376, 0.3757

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8891, 0.3804, 0.4510 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(101, 104, 49) looks like.

```
.text, #text, p{  
    color:rgb(101, 104, 49)  
}
```

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(101, 104, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 104, 49) }
```

Border

The CSS property to change the border of an element to Yxy 12.8891, 0.3804, 0.4510 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(101, 104, 49) }
```

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

```
.border{ border-color:rgb(101, 104, 49) }
```

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

Here you see how a box with a 4 pixel rgb(101, 104, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 104, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 104, 49);  
box-shadow:4px 4px 4px 4px rgb(101, 104,  
49) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8891, 0.3804, 0.4510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 104, 49) }
```

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

```
.background{ background-color: rgb(101,  
104, 49) }
```

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