

Converting Colors

$Y_{xy}(12.9663, 0.3796, 0.4424)$

Have a look what the booklet for
Yxy(12.9663, 0.3796, 0.4424)
contains.

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Color

Yxy(13.0321, 0.3801, 0.4437)

Conversions

Conversions Part 1

Format	Color
Hex	676834
RGB	103, 104, 52
RGB Percent	40%, 41%, 20%
CMY	0.5961, 0.5922, 0.7961
CMYK	0.01, 0.00, 0.50, 0.59
HSL	61°, 33%, 31%
HSV	61°, 50%, 41%
XYZ	11.1641, 13.0321, 5.1752
YIQ	97.7730, 16.0960, -16.3840

Conversions

Conversions Part 2

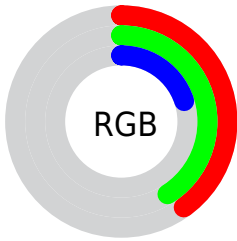
Format	Color
RYB	52, 104, 53
Decimal	6776884
CIELab	42.81, -8.63, 28.95
CIELCh	43, 30.211, 106.599
Yxy	13.0321, 0.3801, 0.4437
Android (android.graphics.Color)	4284966964 (0xFF676834)
YUV	97.7730, -22.5661, 4.5841
Hunter-Lab	36.1000, -7.9731, 16.7703

Details

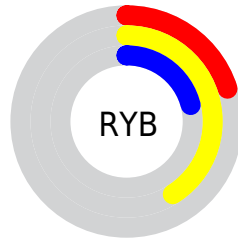
The Yxy color **13.0321, 0.3801, 0.4437** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **4.2118, 0.2254, 0.1828**, and the grayscale version is **12.2092, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.3314, 0.3646, 0.4149**, and **3.7237, 0.4038, 0.4983** is the 20% darker color. If you saturate the color by 10%, you get **12.9373, 0.3912, 0.4630**, and if you desaturate by 10%, it is **13.1488, 0.3676, 0.4222**.

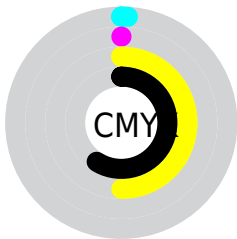
Distribution



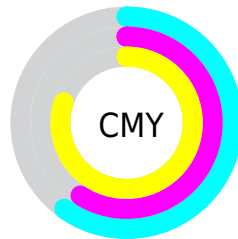
- Red (40%)
- Green (41%)
- Blue (20%)



- Red (20%)
- Yellow (41%)
- Blue (21%)



- Cyan (1%)
- Magenta (0%)
- Yellow (50%)
- Black (59%)





- Cyan (60%)
- Magenta (59%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.0321, 0.3801, 0.4437 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 13.0321, 0.3801, 0.4437 by changing the saturation by 10% instead.


 13.0321, 0.3801,
0.4437


 13.0321, 0.3801,
0.4437


211.1233, 0.3414,
0.3741

 7.4507, 0.3907,
0.4661


 31.3614, 0.3650,
0.4149


 3.7455, 0.4045,
0.4989

 44.8781, 0.3596,
0.4051

 1.5322, 0.4337,
0.5663

 61.8087, 0.3552,
0.3974

 0.3113, 0.2148,
0.7852

 82.5375, 0.3515,
0.3910

 0.0000, 0.0000,
0.0000

 107.4490, 0.3484,
0.3857

 136.9275, 0.3457,

0.3813

171.3575, 0.3434,
0.3774

■ 13.0321, 0.3801,
0.4437

■ 13.0321, 0.3801,
0.4437

■ 12.9373, 0.3912,
0.4630

■ 13.1488, 0.3676,
0.4222

■ 12.8613, 0.4005,
0.4793

■ 13.2867, 0.3541,
0.3992

■ 12.8030, 0.4077,
0.4920

■ 13.4478, 0.3402,
0.3756

■ 12.7607, 0.4125,
0.5008

■ 13.6330, 0.3263,
0.3520

■ 12.7263, 0.4162,
0.5078

■ 13.8434, 0.3127,
0.3290

■ 14.0799, 0.2997,
0.3071

■ 14.3434, 0.2874,
0.2864

■ 14.6347, 0.2760,
0.2672

■ 14.9547, 0.2654,
0.2495

Harmonies

Analogous

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



13.0321, 0.4260, 0.4130



13.0321, 0.3801, 0.4437



13.0321, 0.3188, 0.4401

Triad

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



13.0321, 0.3801, 0.4437



13.0321, 0.1990, 0.2706



13.0321, 0.3618, 0.2739

Complementary

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



13.0321, 0.3801, 0.4437



4.2118, 0.2254, 0.1828

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.



13.0321, 0.2957, 0.2425



13.0321, 0.3801, 0.4437



13.0321, 0.2076, 0.2375

Square

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



13.0321, 0.3801, 0.4437



13.0321, 0.2165, 0.3277



13.0321, 0.2408, 0.2291



13.0321, 0.4176, 0.3176

Rectangle

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



13.0321, 0.3801, 0.4437



13.0321, 0.2777, 0.4136



13.0321, 0.2408, 0.2291



13.0321, 0.3397, 0.2617

Sweetspot

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



13.0327, 0.3801, 0.4437



23.7360, 0.3338, 0.3647



5.7248, 0.4397, 0.3314



5.7789, 0.3360, 0.3684



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.



13.0327, 0.3801, 0.4437



22.6721, 0.3929, 0.4660



11.7321, 0.3398, 0.4613



3.2654, 0.3248, 0.3494



15.6857, 0.4161, 0.5078



81.7635, 0.4160, 0.5079

Inverse Universe

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



4.2118, 0.2254, 0.1828



5.2270, 0.2024, 0.1446



5.1117, 0.2693, 0.1984



2.7660, 0.3001, 0.3078



1.2462, 0.1510, 0.0606



6.4558, 0.1504, 0.0602

Previews

White Background



This preview shows how the Yxy color 13.0321, 0.3801, 0.4437 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 13.0321, 0.3801, 0.4437 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

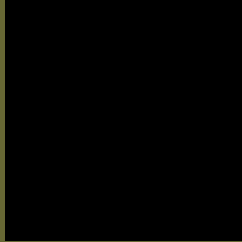
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.0321, 0.3801, 0.4437

Background



This preview shows how black text looks on a background with the Yxy color 13.0321, 0.3801, 0.4437.



This preview shows how white text looks on a background with the Yxy color 13.0321, 0.3801, 0.4437.

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

13.0321, 0.3801, 0.4437

Protanopia

12.9911, 0.3986, 0.4340

Deuteranopia

12.9172, 0.4196, 0.4118



Tritanopia

13.0272, 0.3180, 0.3120

Trichromacy



Original Color

13.0321, 0.3801, 0.4437

Protanomaly

12.9930, 0.3928, 0.4379

Deuteranomaly

12.8937, 0.4047, 0.4240

Tritanomaly

12.9120, 0.3430, 0.3601

Monochromacy



Original Color

13.0321, 0.3801, 0.4437

Achromatopsia

12.2139, 0.3127, 0.3290

Achromatomaly

12.4177, 0.3393, 0.3729

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.0321, 0.3801, 0.4437 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(103, 104, 52)` looks like.

```
.text, #text, p{  
    color:rgb(103, 104, 52)  
}
```

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(103, 104, 52) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 104, 52) }
```

Border

The CSS property to change the border of an element to Yxy 13.0321, 0.3801, 0.4437 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(103, 104, 52) }
```

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

```
.border{ border-color:rgb(103, 104, 52) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 104, 52)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 104, 52); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 104, 52);  
box-shadow:4px 4px 4px 4px rgb(103, 104,  
52) }
```


Background

The CSS property to change the background color of an element to Yxy 13.0321, 0.3801, 0.4437 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 104, 52) }
```

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

```
.background{ background-color: rgb(103,  
104, 52) }
```

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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