

Converting Colors

$Y_{xy}(12.8174, 0.3238, 0.4743)$

Have a look what the booklet for
Yxy(12.8174, 0.3238, 0.4743)
contains.

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Color

Yxy(12.9004, 0.3234, 0.4739)

Conversions

Conversions Part 1

Format	Color
Hex	456F36
RGB	69, 111, 54
RGB Percent	27%, 44%, 21%
CMY	0.7295, 0.5647, 0.7882
CMYK	0.38, 0.00, 0.51, 0.56
HSL	104°, 35%, 32%
HSV	104°, 51%, 44%
XYZ	8.8035, 12.9004, 5.5179
YIQ	91.9440, -6.7350, -26.6310

Conversions

Conversions Part 2

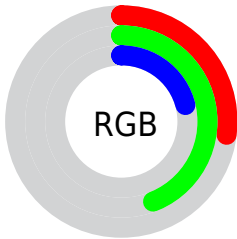
Format	Color
RYB	54, 111, 96
Decimal	4550454
CIELab	42.61, -26.42, 27.04
CIELCh	43, 37.805, 134.325
Yxy	12.9004, 0.3234, 0.4739
Android (android.graphics.Color)	4282740534 (0xFF456F36)
YUV	91.9440, -18.7064, -20.1219
Hunter-Lab	35.9171, -19.1035, 16.0334

Details

The Yxy color **12.9004, 0.3234, 0.4739** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **6.2769, 0.2902, 0.2020**, and the grayscale version is **10.7333, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1468, 0.3239, 0.4341**, and **3.7213, 0.3164, 0.5581** is the 20% darker color. If you saturate the color by 10%, you get **12.5294, 0.3234, 0.5045**, and if you desaturate by 10%, it is **13.3377, 0.3224, 0.4426**.

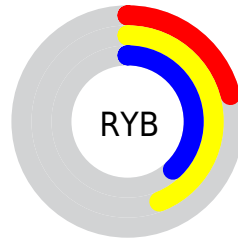
Distribution



Red (27%)

Green (44%)

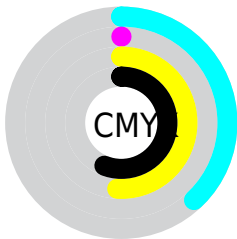
Blue (21%)



Red (21%)

Yellow (44%)

Blue (38%)

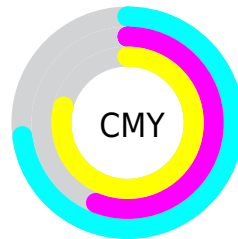


Cyan (38%)

Magenta (0%)

Yellow (51%)

Black (56%)



Cyan (73%)


Magenta (56%)

Yellow (79%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.9004, 0.3234, 0.4739 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 12.9004, 0.3234, 0.4739 by changing the saturation by 10% instead.


 12.9004, 0.3234,
0.4739


 12.9004, 0.3234,
0.4739

210.2784, 0.3201,
0.3821


 7.3600, 0.3216,
0.5069


 31.1247, 0.3234,
0.4341


 3.6882, 0.3158,
0.5579

 44.5775, 0.3230,
0.4213


 1.5007, 0.3125,
0.6875

 61.4364, 0.3224,
0.4113

 0.2893, 0.0000,
1.0000

 82.0860, 0.3219,
0.4032

 0.0000, 0.0000,
0.0000

 106.9106, 0.3214,
0.3965

 136.2946, 0.3209,

0.3909

170.6224, 0.3205,
0.3862

■ 12.9004, 0.3234,
0.4739

■ 12.9004, 0.3234,
0.4739

■ 12.5294, 0.3234,
0.5045

■ 13.3377, 0.3224,
0.4426

■ 12.2196, 0.3223,
0.5328

■ 13.8426, 0.3207,
0.4120

■ 11.9680, 0.3200,
0.5570

■ 14.4187, 0.3184,
0.3830

■ 11.7704, 0.3165,
0.5756

■ 15.0685, 0.3159,
0.3563

■ 11.6334, 0.3137,
0.5891

■ 15.7946, 0.3131,
0.3321

■ 16.5996, 0.3103,
0.3103

■ 17.4856, 0.3075,
0.2910

■ 18.4548, 0.3048,
0.2739

■ 19.5096, 0.3021,
0.2588

Harmonies

Analogous

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



12.9004, 0.3983, 0.4693



12.9004, 0.3234, 0.4739



12.9004, 0.2497, 0.4189

Triad

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



12.9004, 0.3234, 0.4739



12.9004, 0.1834, 0.2184



12.9004, 0.4403, 0.3086

Complementary

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



12.9004, 0.3234, 0.4739



6.2769, 0.2902, 0.2020

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.



12.9004, 0.3671, 0.2579



12.9004, 0.3234, 0.4739



12.9004, 0.2202, 0.2077

Square

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



12.9004, 0.3234, 0.4739



12.9004, 0.1752, 0.2589



12.9004, 0.2847, 0.2223



12.9004, 0.4727, 0.3665

Rectangle

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



12.9004, 0.3234, 0.4739



12.9004, 0.2114, 0.3611



12.9004, 0.2847, 0.2223



12.9004, 0.4191, 0.2905

Sweetspot

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



12.9010, 0.3234, 0.4739



26.4901, 0.3169, 0.3669



11.9772, 0.3986, 0.4192



6.3184, 0.3174, 0.3713



58.7016, 0.3127, 0.3290



6.8385, 0.3127, 0.3290

Same Dimension

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



12.9010, 0.3234, 0.4739



22.2935, 0.3232, 0.5115



12.5639, 0.2924, 0.4464



3.8017, 0.3152, 0.3504



13.6954, 0.3132, 0.5895



67.8572, 0.3101, 0.5920

Inverse Universe

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



6.2769, 0.2902, 0.2020



8.9250, 0.2825, 0.1739



6.8961, 0.3442, 0.2358



3.4116, 0.3099, 0.3080



3.4462, 0.2577, 0.1193



16.7334, 0.2542, 0.1174

Previews

White Background



This preview shows how the Yxy color 12.9004, 0.3234, 0.4739 looks on a white background.

Color Contrast Check

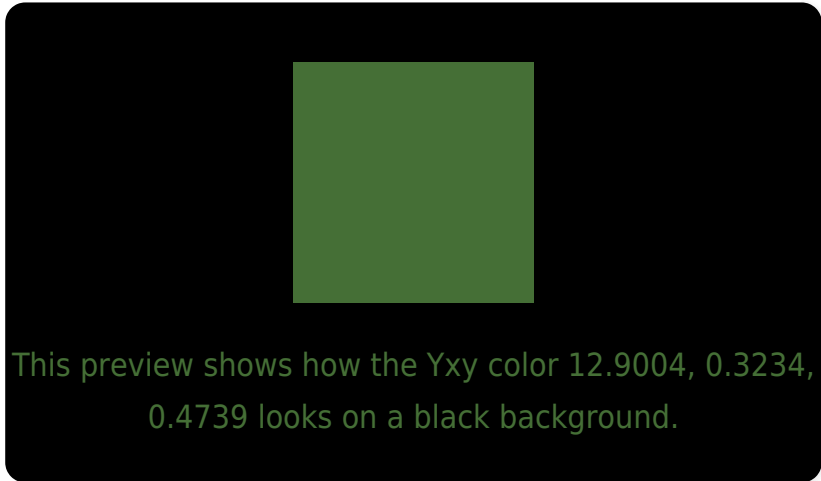
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

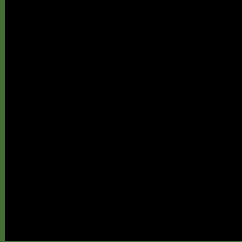
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.9004, 0.3234, 0.4739

Background



This preview shows how black text looks on a background with the Yxy color 12.9004, 0.3234, 0.4739.



This preview shows how white text looks on a background with the Yxy color 12.9004, 0.3234, 0.4739.

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

12.9004, 0.3234, 0.4739

Protanopia

12.7241, 0.3993, 0.4347

Deuteranopia

12.8088, 0.4109, 0.4057



Tritanopia

12.9577, 0.2697, 0.3104

Trichromacy



Original Color

12.9004, 0.3234, 0.4739

Protanomaly

12.6264, 0.3701, 0.4506

Deuteranomaly

12.4863, 0.3766, 0.4280

Tritanomaly

12.7840, 0.2888, 0.3659

Monochromacy



Original Color

12.9004, 0.3234, 0.4739

Achromatopsia

10.7023, 0.3127, 0.3290

Achromatomaly

11.3586, 0.3191, 0.3818

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9004, 0.3234, 0.4739 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(69, 111, 54)` looks like.

```
.text, #text, p{  
    color:rgb(69, 111, 54)  
}
```

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(69, 111, 54) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 111, 54) }
```

Border

The CSS property to change the border of an element to Yxy 12.9004, 0.3234, 0.4739 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(69, 111, 54) }
```

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

```
.border{ border-color:rgb(69, 111, 54) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 111, 54)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 111, 54); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 111, 54);  
box-shadow:4px 4px 4px 4px rgb(69, 111,  
54) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9004, 0.3234, 0.4739 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 111, 54) }
```

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

```
.background{ background-color: rgb(69, 111,  
54) }
```

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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