

Converting Colors

$Y_{xy}(12.8937, 0.3415, 0.5183)$

Have a look what the booklet for
Yxy(12.8937, 0.3415, 0.5183)
contains.

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Color

Yxy(12.9634, 0.3412, 0.5190)

Conversions

Conversions Part 1

Format	Color
Hex	457021
RGB	69, 112, 33
RGB Percent	27%, 44%, 13%
CMY	0.7295, 0.5608, 0.8706
CMYK	0.38, 0.00, 0.71, 0.56
HSL	93°, 54%, 28%
HSV	93°, 71%, 44%
XYZ	8.5224, 12.9634, 3.4919
YIQ	90.1370, -0.2690, -33.6850

Conversions

Conversions Part 2

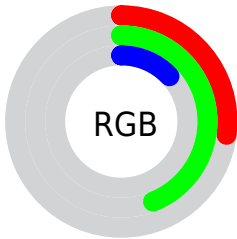
Format	Color
R_{YB}	33, 112, 76
Decimal	4550689
CIE _{Lab}	42.71, -29.26, 37.68
CIE _{LCh}	43, 47.706, 127.832
Yxy	12.9634, 0.3412, 0.5190
Android (android.graphics.Color)	4282740769 (0xFF457021)
YUV	90.1370, -28.1685, -18.5371
Hunter-Lab	36.0047, -20.7570, 19.4531

Details

The Yxy color **12.9634, 0.3412, 0.5190** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **3.7951, 0.2484, 0.1461**, and the grayscale version is **10.3211, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.2251, 0.3400, 0.4680**, and **3.8052, 0.3218, 0.5827** is the 20% darker color. If you saturate the color by 10%, you get **12.6997, 0.3402, 0.5413**, and if you desaturate by 10%, it is **13.2721, 0.3404, 0.4931**.

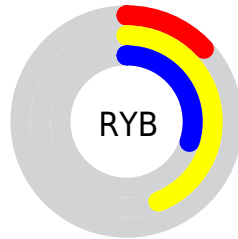
Distribution



Red (27%)

Green (44%)

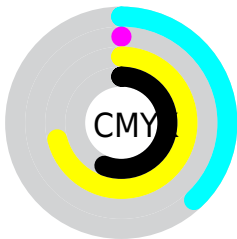
Blue (13%)



Red (13%)

Yellow (44%)

Blue (30%)

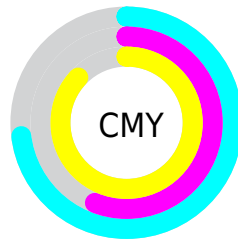


Cyan (38%)

Magenta (0%)

Yellow (71%)

Black (56%)



Cyan (73%)


Magenta (56%)

Yellow (87%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9634, 0.3412, 0.5190 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 12.9634, 0.3412, 0.5190 by changing the saturation by 10% instead.


 12.9634, 0.3412,
0.5190


 12.9634, 0.3412,
0.5190


 210.6830, 0.3302,
0.3997


 7.4033, 0.3388,
0.5592


 31.2380, 0.3396,
0.4683


 3.7156, 0.3415,
0.6407

 44.7214, 0.3380,
0.4515


 1.5158, 0.2912,
0.7088

 61.6146, 0.3364,
0.4383

 0.2998, 0.0000,
1.0000

 82.3021, 0.3349,
0.4276

 0.0000, 0.0000,
0.0000

 107.1683, 0.3336,
0.4188

 136.5976, 0.3323,


0.4114


 170.9744, 0.3312,
0.4051

 12.9634, 0.3412,
0.5190


 12.9634, 0.3412,
0.5190


 12.6997, 0.3402,
0.5413


 13.2721, 0.3404,
0.4931


 12.4763, 0.3373,
0.5590

 13.6266, 0.3380,
0.4650

 12.2936, 0.3338,
0.5731

 14.0298, 0.3342,
0.4361

 14.4838, 0.3296,
0.4074

 14.9905, 0.3243,
0.3799

■ 15.5519, 0.3187,
0.3541

■ 16.1697, 0.3130,
0.3302

■ 16.8455, 0.3074,
0.3085

■ 17.5810, 0.3019,
0.2888

Harmonies

Analogous

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



12.9634, 0.4301, 0.4892



12.9634, 0.3412, 0.5190



12.9634, 0.2498, 0.4674

Triad

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



12.9634, 0.3412, 0.5190



12.9634, 0.1527, 0.2004



12.9634, 0.4564, 0.2873

Complementary

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



12.9634, 0.3412, 0.5190



3.7951, 0.2484, 0.1461

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.



12.9634, 0.3566, 0.2315



12.9634, 0.3412, 0.5190



12.9634, 0.1878, 0.1831

Square

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



12.9634, 0.3412, 0.5190



12.9634, 0.1495, 0.2552



12.9634, 0.2571, 0.1948



12.9634, 0.5089, 0.3530

Rectangle

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



12.9634, 0.3412, 0.5190



12.9634, 0.2001, 0.3937



12.9634, 0.2571, 0.1948



12.9634, 0.4261, 0.2671

Sweetspot

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



12.9640, 0.3412, 0.5190



26.2378, 0.3249, 0.3826



8.6056, 0.4584, 0.4160



6.2573, 0.3260, 0.3883



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.



12.9640, 0.3412, 0.5190



22.0382, 0.3384, 0.5537



12.0379, 0.3009, 0.5379



3.8307, 0.3178, 0.3503



14.1977, 0.3333, 0.5735



70.2247, 0.3295, 0.5766

Inverse Universe

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



3.7951, 0.2484, 0.1461



4.7489, 0.2293, 0.1140



5.6451, 0.3250, 0.1834



3.3816, 0.3072, 0.3078



2.4850, 0.2148, 0.0957



11.8614, 0.2096, 0.0928

Previews

White Background



This preview shows how the Yxy color 12.9634, 0.3412, 0.5190 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 12.9634, 0.3412, 0.5190 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

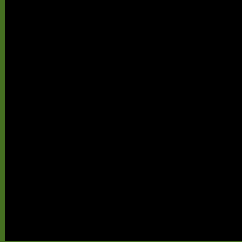
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.9634, 0.3412, 0.5190

Background



This preview shows how black text looks on a background with the Yxy color 12.9634, 0.3412, 0.5190.



This preview shows how white text looks on a background with the Yxy color 12.9634, 0.3412, 0.5190.

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

12.9634, 0.3412, 0.5190

Protanopia

12.9118, 0.4221, 0.4659

Deuteranopia

12.8722, 0.4395, 0.4349



Tritanopia

13.0447, 0.2720, 0.3105

Trichromacy



Original Color

12.9634, 0.3412, 0.5190

Protanomaly

12.7435, 0.3906, 0.4866

Deuteranomaly

12.6396, 0.4016, 0.4653

Tritanomaly

12.9430, 0.3008, 0.3884

Monochromacy



Original Color

12.9634, 0.3412, 0.5190

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

10.9589, 0.3285, 0.4036

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9634, 0.3412, 0.5190 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, 112, 33)` looks like.

```
.text, #text, p{  
    color:rgb(69, 112, 33)  
}
```

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, 112, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 112, 33) }
```

Border

The CSS property to change the border of an element to Yxy 12.9634, 0.3412, 0.5190 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, 112, 33) }
```

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

```
.border{ border-color:rgb(69, 112, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 112, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 112, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 112, 33);  
box-shadow:4px 4px 4px 4px rgb(69, 112,  
33) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9634, 0.3412, 0.5190 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 112, 33) }
```

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

```
.background{ background-color: rgb(69, 112,  
33) }
```

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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