

Converting Colors

$Y_{xy}(12.9339, 0.3229, 0.4896)$

Have a look what the booklet for
Yxy(12.9339, 0.3229, 0.4896)
contains.

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Color

Yxy(12.9339, 0.3229, 0.4896)

Conversions

Conversions Part 1

Format	Color
Hex	417031
RGB	65, 112, 49
RGB Percent	25%, 44%, 19%
CMY	0.7450, 0.5608, 0.8078
CMYK	0.42, 0.00, 0.56, 0.56
HSL	105°, 39%, 32%
HSV	105°, 56%, 44%
XYZ	8.5301, 12.9339, 4.9532
YIQ	90.7650, -7.7890, -29.5570

Conversions

Conversions Part 2

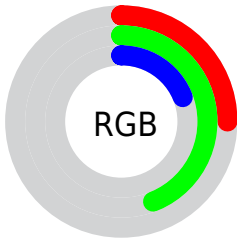
Format	Color
R_{YB}	49, 112, 96
Decimal	4288561
CIE _{Lab}	42.66, -29.00, 29.75
CIE _{LCh}	43, 41.545, 134.271
Yxy	12.9339, 0.3229, 0.4896
Android (android.graphics.Color)	4282478641 (0xFF417031)
YUV	90.7650, -20.5901, -22.5959
Hunter-Lab	35.9637, -20.5986, 17.0087

Details

The Yxy color **12.9339, 0.3229, 0.4896** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **5.8524, 0.2882, 0.1907**, and the grayscale version is **10.4565, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1270, 0.3239, 0.4454**, and **3.7545, 0.3129, 0.5860** is the 20% darker color. If you saturate the color by 10%, you get **12.5870, 0.3223, 0.5194**, and if you desaturate by 10%, it is **13.3476, 0.3225, 0.4583**.

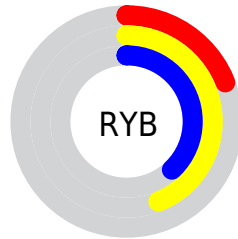
Distribution



Red (25%)

Green (44%)

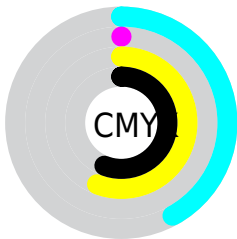
Blue (19%)



Red (19%)

Yellow (44%)

Blue (38%)

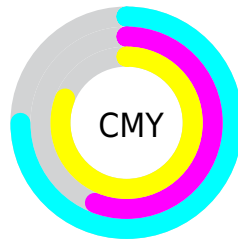


Cyan (42%)

Magenta (0%)

Yellow (56%)

Black (56%)



Cyan (75%)


Magenta (56%)


Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9339, 0.3229, 0.4896 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 12.9339, 0.3229, 0.4896 by changing the saturation by 10% instead.


 12.9339, 0.3229,
0.4896


 12.9339, 0.3229,
0.4896


210.4936, 0.3207,
0.3877


 7.3830, 0.3200,
0.5260


 31.1850, 0.3238,
0.4455

 3.7028, 0.3129,
0.5842

 44.6540, 0.3235,
0.4312

 1.5087, 0.2928,
0.7072

 61.5312, 0.3230,
0.4201

 0.2949, 0.0000,
1.0000

 82.2010, 0.3225,
0.4111

 0.0000, 0.0000,
0.0000

 107.0477, 0.3220,
0.4037

 136.4558, 0.3216,

0.3975

170.8096, 0.3211,
0.3922

■ 12.9339, 0.3229,
0.4896

■ 12.9339, 0.3229,
0.4896

■ 12.5870, 0.3223,
0.5194

■ 13.3476, 0.3225,
0.4583

■ 12.3015, 0.3205,
0.5460

■ 13.8298, 0.3212,
0.4271

■ 12.0741, 0.3176,
0.5676

■ 14.3841, 0.3193,
0.3971

■ 11.8981, 0.3141,
0.5838

■ 15.0133, 0.3170,
0.3692

■ 11.8416, 0.3130,
0.5897

■ 15.7203, 0.3144,
0.3437

■ 16.5075, 0.3117,
0.3207

■ 17.3775, 0.3090,
0.3002

■ 18.3327, 0.3063,
0.2820

■ 19.3752, 0.3038,
0.2660

Harmonies

Analogous

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



12.9339, 0.4042, 0.4814



12.9339, 0.3229, 0.4896



12.9339, 0.2433, 0.4290

Triad

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



12.9339, 0.3229, 0.4896



12.9339, 0.1732, 0.2089



12.9339, 0.4526, 0.3057

Complementary

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



12.9339, 0.3229, 0.4896



5.8524, 0.2882, 0.1907

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.



12.9339, 0.3718, 0.2518



12.9339, 0.3229, 0.4896



12.9339, 0.2122, 0.1982

Square

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



12.9339, 0.3229, 0.4896



12.9339, 0.1644, 0.2517



12.9339, 0.2815, 0.2138



12.9339, 0.4875, 0.3674

Rectangle

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



12.9339, 0.3229, 0.4896



12.9339, 0.2022, 0.3640



12.9339, 0.2815, 0.2138



12.9339, 0.4293, 0.2865

Sweetspot

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



12.9345, 0.3229, 0.4896



26.2360, 0.3173, 0.3724



11.8869, 0.4076, 0.4270



6.2625, 0.3176, 0.3764



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.



12.9345, 0.3229, 0.4896



21.9773, 0.3220, 0.5265



12.6077, 0.2911, 0.4600



3.8005, 0.3151, 0.3504



13.6803, 0.3126, 0.5900



67.7900, 0.3095, 0.5925

Inverse Universe

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



5.8524, 0.2882, 0.1907



8.2006, 0.2804, 0.1640



6.5105, 0.3483, 0.2278



3.4129, 0.3101, 0.3080



3.4942, 0.2596, 0.1204



16.9801, 0.2562, 0.1185

Previews

White Background



This preview shows how the Yxy color 12.9339, 0.3229, 0.4896 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 12.9339, 0.3229, 0.4896 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

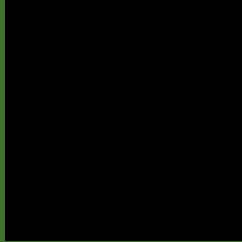
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.9339, 0.3229, 0.4896

Background



This preview shows how black text looks on a background with the Yxy color 12.9339, 0.3229, 0.4896.



This preview shows how white text looks on a background with the Yxy color 12.9339, 0.3229, 0.4896.

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

12.9339, 0.3229, 0.4896

Protanopia

12.6833, 0.4053, 0.4436

Deuteranopia

12.8337, 0.4193, 0.4142



Tritanopia

12.8546, 0.2652, 0.3080

Trichromacy



Original Color

12.9339, 0.3229, 0.4896

Protanomaly

12.4776, 0.3726, 0.4621

Deuteranomaly

12.5755, 0.3803, 0.4408

Tritanomaly

12.8410, 0.2876, 0.3738

Monochromacy



Original Color

12.9339, 0.3229, 0.4896

Achromatopsia

10.4616, 0.3127, 0.3290

Achromatomaly

11.2393, 0.3188, 0.3875

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9339, 0.3229, 0.4896 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(65, 112, 49)` looks like.

```
.text, #text, p{  
    color:rgb(65, 112, 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(65, 112, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 112, 49) }
```

Border

The CSS property to change the border of an element to Yxy 12.9339, 0.3229, 0.4896 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(65, 112, 49) }
```

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

```
.border{ border-color:rgb(65, 112, 49) }
```

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

Here you see how a box with a 4 pixel rgb(65, 112, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 112, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 112, 49);  
box-shadow:4px 4px 4px 4px rgb(65, 112,  
49) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9339, 0.3229, 0.4896 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 112, 49) }
```

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

```
.background{ background-color: rgb(65, 112,  
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](#).

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