

Converting Colors

$Y_{xy}(12.9535, 0.3300, 0.5083)$

Have a look what the booklet for
Yxy(12.9535, 0.3300, 0.5083)
contains.

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Color

Yxy(12.8723, 0.3299, 0.5070)

Conversions

Conversions Part 1

Format	Color
Hex	417029
RGB	65, 112, 41
RGB Percent	25%, 44%, 16%
CMY	0.7450, 0.5608, 0.8392
CMYK	0.42, 0.00, 0.63, 0.56
HSL	100°, 46%, 30%
HSV	100°, 63%, 44%
XYZ	8.3759, 12.8723, 4.1410
YIQ	89.8530, -5.2210, -32.0450

Conversions

Conversions Part 2

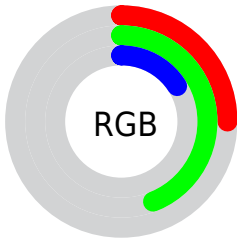
Format	Color
RYB	41, 112, 88
Decimal	4288553
CIELab	42.57, -29.96, 33.73
CIElCh	43, 45.108, 131.613
Yxy	12.8723, 0.3299, 0.5070
Android (android.graphics.Color)	4282478633 (0xFF417029)
YUV	89.8530, -24.0845, -21.7961
Hunter-Lab	35.8780, -21.1148, 18.2714

Details

The Yxy color **12.8723, 0.3299, 0.5070** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **4.8291, 0.2723, 0.1699**, and the grayscale version is **10.2473, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9852, 0.3300, 0.4589**, and **3.6406, 0.3143, 0.5887** is the 20% darker color. If you saturate the color by 10%, you get **12.5688, 0.3290, 0.5337**, and if you desaturate by 10%, it is **13.2323, 0.3294, 0.4777**.

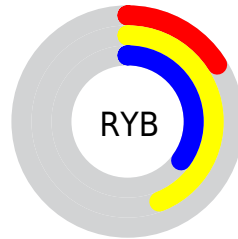
Distribution



Red (25%)

Green (44%)

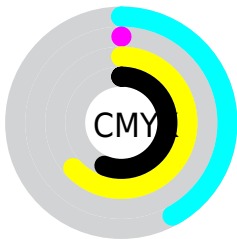
Blue (16%)



Red (16%)

Yellow (44%)

Blue (35%)

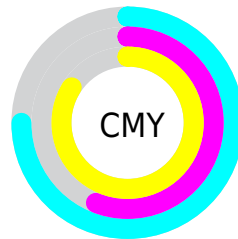


Cyan (42%)

Magenta (0%)

Yellow (63%)

Black (56%)



Cyan (75%)


Magenta (56%)


Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8723, 0.3299, 0.5070 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 12.8723, 0.3299, 0.5070 by changing the saturation by 10% instead.


 12.8723, 0.3299,
0.5070


 12.8723, 0.3299,
0.5070


210.0976, 0.3246,
0.3943

 7.3407, 0.3268,
0.5464


 31.0742, 0.3301,
0.4585


 3.6761, 0.3228,
0.6164

 44.5132, 0.3293,
0.4427

 1.4941, 0.2836,
0.7164

 61.3568, 0.3284,
0.4303

 0.2845, 0.0000,
1.0000

 81.9894, 0.3276,
0.4203

 0.0000, 0.0000,
0.0000

 106.7954, 0.3267,
0.4120

 136.1592, 0.3260,

0.4052

170.4651, 0.3253,
0.3993

■ 12.8723, 0.3299,
0.5070

■ 12.8723, 0.3299,
0.5070

■ 12.5688, 0.3290,
0.5337

■ 13.2323, 0.3294,
0.4777

■ 12.3171, 0.3267,
0.5562

■ 13.6502, 0.3276,
0.4473

■ 12.1134, 0.3229,
0.5734

■ 14.1291, 0.3250,
0.4172

■ 11.9982, 0.3206,
0.5837

■ 14.6717, 0.3216,
0.3884

■ 15.2803, 0.3179,
0.3615

■ 15.9570, 0.3141,
0.3368

■ 16.7041, 0.3101,
0.3145

■ 17.5236, 0.3062,
0.2945

■ 18.4174, 0.3025,
0.2767

Harmonies

Analogous

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



12.8723, 0.4163, 0.4889



12.8723, 0.3299, 0.5070



12.8723, 0.2436, 0.4475

Triad

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



12.8723, 0.3299, 0.5070



12.8723, 0.1616, 0.2024



12.8723, 0.4585, 0.2974

Complementary

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



12.8723, 0.3299, 0.5070



4.8291, 0.2723, 0.1699

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.



12.8723, 0.3675, 0.2417



12.8723, 0.3299, 0.5070



12.8723, 0.1997, 0.1890

Square

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



12.8723, 0.3299, 0.5070



12.8723, 0.1549, 0.2505



12.8723, 0.2707, 0.2035



12.8723, 0.5010, 0.3619

Rectangle

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



12.8723, 0.3299, 0.5070



12.8723, 0.1982, 0.3763



12.8723, 0.2707, 0.2035



12.8723, 0.4317, 0.2774

Sweetspot

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



12.8729, 0.3299, 0.5070



26.1778, 0.3202, 0.3777



10.4453, 0.4285, 0.4262



6.2325, 0.3211, 0.3838



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.



12.8729, 0.3299, 0.5070



21.8667, 0.3281, 0.5447



12.3042, 0.2949, 0.4957



3.8130, 0.3163, 0.3504



13.8594, 0.3201, 0.5841



68.6074, 0.3165, 0.5869

Inverse Universe

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



4.8291, 0.2723, 0.1699



6.4363, 0.2596, 0.1402



5.9771, 0.3411, 0.2071



3.3997, 0.3089, 0.3079



3.0271, 0.2401, 0.1096



14.5909, 0.2357, 0.1072

Previews

White Background



This preview shows how the Yxy color 12.8723, 0.3299, 0.5070 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 12.8723, 0.3299, 0.5070 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

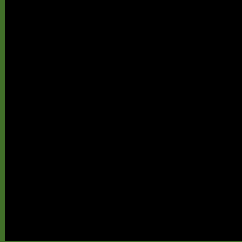
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8723, 0.3299, 0.5070

Background



This preview shows how black text looks on a background with the Yxy color 12.8723, 0.3299, 0.5070.



This preview shows how white text looks on a background with the Yxy color 12.8723, 0.3299, 0.5070.

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

12.8723, 0.3299, 0.5070

Protanopia

12.6990, 0.4145, 0.4541

Deuteranopia

12.6668, 0.4312, 0.4234



Tritanopia

12.8732, 0.2674, 0.3103

Trichromacy



Original Color

12.8723, 0.3299, 0.5070

Protanomaly

12.4800, 0.3814, 0.4743

Deuteranomaly

12.3728, 0.3923, 0.4535

Tritanomaly

12.8297, 0.2923, 0.3814

Monochromacy



Original Color

12.8723, 0.3299, 0.5070

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

10.9526, 0.3229, 0.3960

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8723, 0.3299, 0.5070 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, 41)` looks like.

```
.text, #text, p{  
    color:rgb(65, 112, 41)  
}
```

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, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 112, 41) }
```

Border

The CSS property to change the border of an element to Yxy 12.8723, 0.3299, 0.5070 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, 41) }
```

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

```
.border{ border-color:rgb(65, 112, 41) }
```

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, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 112, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 112, 41);  
box-shadow:4px 4px 4px 4px rgb(65, 112,  
41) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8723, 0.3299, 0.5070 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, 41) }
```

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

```
.background{ background-color: rgb(65, 112,  
41) }
```

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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