

Converting Colors

$Y_{xy}(12.1217, 0.2994, 0.4227)$

Have a look what the booklet for
Yxy(12.1217, 0.2994, 0.4227)
contains.

Yxy(12.1071, 0.2996, 0.4214)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

$\text{Yxy}(12.1071, 0.2996, 0.4214)$

Conversions

Conversions Part 1

Format	Color
Hex	416B48
RGB	65, 107, 72
RGB Percent	25%, 42%, 28%
CMY	0.7451, 0.5804, 0.7176
CMYK	0.39, 0.00, 0.33, 0.58
HSL	130°, 24%, 34%
HSV	130°, 39%, 42%
XYZ	8.6077, 12.1071, 8.0159
YIQ	90.4520, -13.7970, -19.7890

Conversions

Conversions Part 2

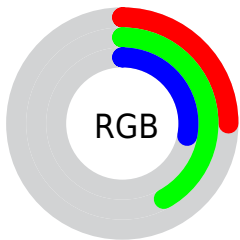
Format	Color
RYB	65, 101, 107
Decimal	4287304
CIELab	41.39, -22.82, 15.12
CIELCh	41, 27.371, 146.471
Yxy	12.1071, 0.2996, 0.4214
Android (android.graphics.Color)	4282477384 (0xFF416B48)
YUV	90.4520, -9.0968, -22.3214
Hunter-Lab	34.7953, -16.7341, 10.6979

Details

The Yxy color **12.1071, 0.2996, 0.4214** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **7.8267, 0.3296, 0.2516**, and the grayscale version is **10.3550, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.8216, 0.3041, 0.3956**, and **3.3309, 0.2876, 0.4778** is the 20% darker color. If you saturate the color by 10%, you get **11.6683, 0.2968, 0.4500**, and if you desaturate by 10%, it is **12.6330, 0.3028, 0.3944**.

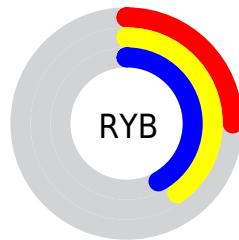
Distribution



Red (25%)

Green (42%)

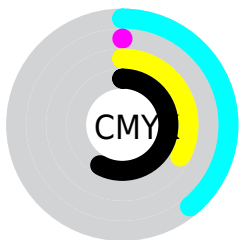
Blue (28%)



Red (25%)

Yellow (40%)

Blue (42%)

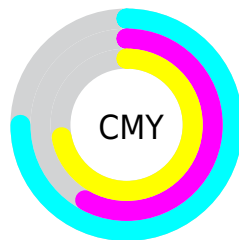


Cyan (39%)

Magenta (0%)

Yellow (33%)

Black (58%)



Cyan (75%)

Magenta (58%)

Yellow (72%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.1071, 0.2996, 0.4214 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 12.1071, 0.2996, 0.4214 by changing the saturation by 10% instead.

12.1071, 0.2996,
0.4214

12.1071, 0.2996,
0.4214

205.1130, 0.3089,
0.3626

6.8167, 0.2954,
0.4434

29.6900, 0.3040,
0.3956

3.3477, 0.2877,
0.4786

42.7513, 0.3053,
0.3875

1.3158, 0.2821,
0.5791

59.1716, 0.3063,
0.3811

0.1534, 0.0000,
1.0000

79.3354, 0.3070,
0.3759

0.0000, 0.0000,
0.0000

103.6270, 0.3076,
0.3717

132.4309, 0.3081,

0.3682

166.1315, 0.3085,
0.3652

■ 12.1071, 0.2996,
0.4214

■ 12.1071, 0.2996,
0.4214

■ 11.6683, 0.2968,
0.4500

■ 12.6330, 0.3028,
0.3944

■ 11.3104, 0.2946,
0.4795

■ 13.2487, 0.3062,
0.3697

■ 11.0289, 0.2932,
0.5084

■ 13.9589, 0.3096,
0.3474

■ 10.8181, 0.2928,
0.5353

■ 14.7671, 0.3130,
0.3276

■ 10.6715, 0.2934,
0.5586

■ 15.6771, 0.3162,
0.3102

■ 10.5663, 0.2941,
0.5774

■ 16.6922, 0.3193,
0.2949

■ 10.5589, 0.2941,
0.5787

■ 17.8155, 0.3222,
0.2816

■ 19.0502, 0.3249,
0.2700

■ 20.3992, 0.3275,
0.2599

Harmonies

Analogous

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



12.1071, 0.3581, 0.4385



12.1071, 0.2996, 0.4214



12.1071, 0.2475, 0.3699

Triad

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



12.1071, 0.2996, 0.4214



12.1071, 0.2220, 0.2384



12.1071, 0.4212, 0.3338

Complementary

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



12.1071, 0.2996, 0.4214



7.8267, 0.3296, 0.2516

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.



12.1071, 0.3776, 0.2901



12.1071, 0.2996, 0.4214



12.1071, 0.2607, 0.2374

Square

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



12.1071, 0.2996, 0.4214



12.1071, 0.2061, 0.2621



12.1071, 0.3170, 0.2560



12.1071, 0.4315, 0.3800

Rectangle

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



12.1071, 0.2996, 0.4214



12.1071, 0.2230, 0.3285



12.1071, 0.3170, 0.2560



12.1071, 0.4098, 0.3186

Sweetspot

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



12.1076, 0.2996, 0.4214



24.5836, 0.3085, 0.3540



13.6068, 0.3573, 0.4239



5.9222, 0.3082, 0.3560



57.0482, 0.3127, 0.3290



6.3724, 0.3127, 0.3290

Same Dimension

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



12.1076, 0.2996, 0.4214



20.9596, 0.2970, 0.4473



12.4299, 0.2760, 0.3645



3.4523, 0.3097, 0.3468



12.8416, 0.2945, 0.5801



65.3429, 0.2964, 0.5871

Inverse Universe

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



7.8267, 0.3296, 0.2516



12.1309, 0.3346, 0.2345



7.4713, 0.3719, 0.2967



3.1557, 0.3159, 0.3118



4.6794, 0.3661, 0.1791



23.7336, 0.3691, 0.1807

Previews

White Background



This preview shows how the Yxy color 12.1071, 0.2996, 0.4214 looks on a white background.

Color Contrast Check

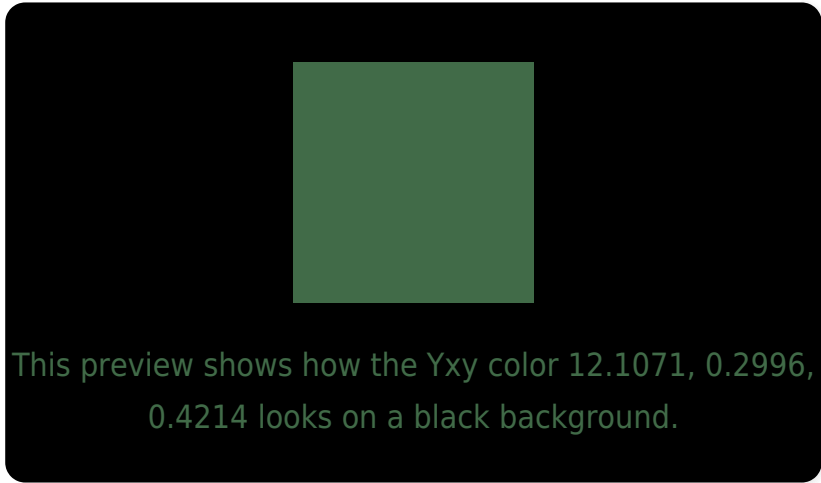
Large Text (above 18pt) WCAG AA ✓ Pass

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

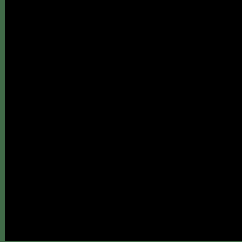
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.1071, 0.2996, 0.4214

Background



This preview shows how black text looks on a background with the Yxy color 12.1071, 0.2996, 0.4214.



This preview shows how white text looks on a background with the Yxy color 12.1071, 0.2996, 0.4214.

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

12.1071, 0.2996, 0.4214

Protanopia

11.9700, 0.3677, 0.3950

Deuteranopia

11.9141, 0.3747, 0.3682



Tritanopia

12.0450, 0.2652, 0.3097

Trichromacy



Original Color

12.1071, 0.2996, 0.4214

Protanomaly

11.9107, 0.3399, 0.4071

Deuteranomaly

11.7166, 0.3438, 0.3862

Tritanomaly

12.0472, 0.2777, 0.3490

Monochromacy



Original Color

12.1071, 0.2996, 0.4214

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

10.7396, 0.3082, 0.3622

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.1071, 0.2996, 0.4214 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, 107, 72)` looks like.

```
.text, #text, p{  
    color:rgb(65, 107, 72)  
}
```

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, 107, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 107, 72) }
```

Border

The CSS property to change the border of an element to Yxy 12.1071, 0.2996, 0.4214 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, 107, 72) }
```

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

```
.border{ border-color:rgb(65, 107, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 107, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 107, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 107, 72);  
box-shadow:4px 4px 4px 4px rgb(65, 107,  
72) }
```


Background

The CSS property to change the background color of an element to Yxy 12.1071, 0.2996, 0.4214 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 107, 72) }
```

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

```
.background{ background-color: rgb(65, 107,  
72) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor