

Converting Colors

$Y_{xy}(12.5647, 0.2672, 0.3913)$

Have a look what the booklet for
Yxy(12.5647, 0.2672, 0.3913)
contains.

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Color

Yxy(12.4929, 0.2673, 0.3900)

Conversions

Conversions Part 1

Format	Color
Hex	316E57
RGB	49, 110, 87
RGB Percent	19%, 43%, 34%
CMY	0.8079, 0.5686, 0.6588
CMYK	0.55, 0.00, 0.21, 0.57
HSL	157°, 38%, 31%
HSV	157°, 55%, 43%
XYZ	8.5624, 12.4929, 10.9777
YIQ	89.1390, -28.9730, -20.0850

Conversions

Conversions Part 2

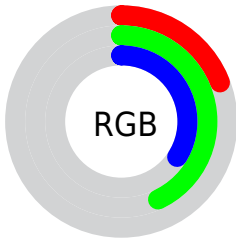
Format	Color
R_{YB}	49, 87, 110
Decimal	3239511
CIE Lab	41.99, -25.81, 6.90
CIE LCh	42, 26.716, 165.042
Yxy	12.4929, 0.2673, 0.3900
Android (android.graphics.Color)	4281429591 (0xFF316E57)
YUV	89.1390, -1.0545, -35.2019
Hunter-Lab	35.3453, -18.6124, 6.3271

Details

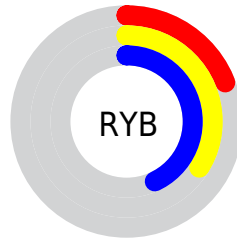
The Yxy color **12.4929, 0.2673, 0.3900** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **5.9785, 0.4045, 0.2781**, and the grayscale version is **10.0292, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.3561, 0.2788, 0.3730**, and **3.6124, 0.2510, 0.4236** is the 20% darker color. If you saturate the color by 10%, you get **12.1867, 0.2626, 0.4034**, and if you desaturate by 10%, it is **12.8708, 0.2735, 0.3771**.

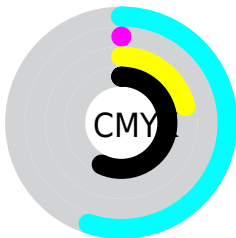
Distribution



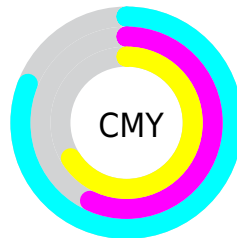
- Red (19%)
- Green (43%)
- Blue (34%)



- Red (19%)
- Yellow (34%)
- Blue (43%)



- Cyan (55%)
- Magenta (0%)
- Yellow (21%)
- Black (57%)





- Cyan (81%)
- Magenta (57%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.4929, 0.2673, 0.3900 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 12.4929, 0.2673, 0.3900 by changing the saturation by 10% instead.


 12.4929, 0.2673,
0.3900


 12.4929, 0.2673,
0.3900


 207.6417, 0.2954,
0.3518


 7.0803, 0.2574,
0.4039


 30.3897, 0.2793,
0.3735


 3.5124, 0.2420,
0.4259

 43.6427, 0.2832,
0.3681

 1.4047, 0.2105,
0.4684


 60.2779, 0.2863,
0.3640

 0.2202, 0.0000,
1.0000

 80.6798, 0.2888,
0.3606

 0.0000, 0.0000,
0.0000

 105.2327, 0.2909,
0.3578

 134.3211, 0.2926,

0.3555

168.3293, 0.2941,
0.3535

■ 12.4929, 0.2673,
0.3900

■ 12.4929, 0.2673,
0.3900

■ 12.1867, 0.2626,
0.4034

■ 12.8708, 0.2735,
0.3771

■ 11.9457, 0.2595,
0.4172

■ 13.3233, 0.2809,
0.3650

■ 11.7647, 0.2582,
0.4311

■ 13.8552, 0.2892,
0.3537

■ 11.6322, 0.2585,
0.4449

■ 14.4703, 0.2981,
0.3433

■ 11.5765, 0.2587,
0.4513

■ 15.1720, 0.3075,
0.3338

■ 15.9639, 0.3171,
0.3252

■ 16.8490, 0.3267,
0.3176

■ 17.8304, 0.3363,
0.3108

■ 18.9109, 0.3456,
0.3048

Harmonies

Analogous

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



12.4929, 0.3219, 0.4288



12.4929, 0.2673, 0.3900



12.4929, 0.2272, 0.3315

Triad

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



12.4929, 0.2673, 0.3900



12.4929, 0.2457, 0.2381



12.4929, 0.4280, 0.3619

Complementary

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



12.4929, 0.2673, 0.3900



5.9785, 0.4045, 0.2781

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.



12.4929, 0.4047, 0.3171



12.4929, 0.2673, 0.3900



12.4929, 0.2948, 0.2492

Square

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



12.4929, 0.2673, 0.3900



12.4929, 0.2162, 0.2474



12.4929, 0.3539, 0.2773



12.4929, 0.4166, 0.4039

Rectangle

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



12.4929, 0.2673, 0.3900



12.4929, 0.2128, 0.2947



12.4929, 0.3539, 0.2773



12.4929, 0.4240, 0.3468

Sweetspot

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



12.4934, 0.2673, 0.3900



25.1847, 0.2963, 0.3452



12.7664, 0.3332, 0.4817



5.8245, 0.2950, 0.3467



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.



12.4934, 0.2673, 0.3900



21.2482, 0.2613, 0.4080



11.4561, 0.2419, 0.3107



3.7949, 0.3041, 0.3370



13.9005, 0.2590, 0.4525



69.0728, 0.2611, 0.4600

Inverse Universe

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



5.9785, 0.4045, 0.2781



8.4922, 0.4407, 0.2696



6.3755, 0.4550, 0.3451



3.4204, 0.3222, 0.3211



4.1732, 0.5379, 0.2737



20.6323, 0.5516, 0.2813

Previews

White Background



This preview shows how the Yxy color 12.4929, 0.2673, 0.3900 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 12.4929, 0.2673, 0.3900 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

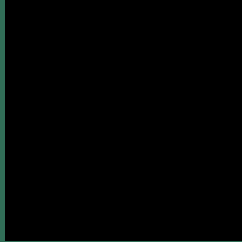
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.4929, 0.2673, 0.3900

Background



This preview shows how black text looks on a background with the Yxy color 12.4929, 0.2673, 0.3900.

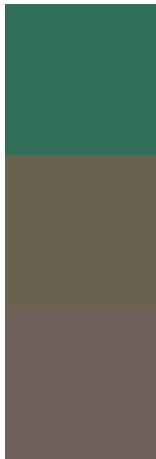


This preview shows how white text looks on a background with the Yxy color 12.4929, 0.2673, 0.3900.

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

12.4929, 0.2673, 0.3900

Protanopia

12.2725, 0.3464, 0.3677

Deuteranopia

12.3021, 0.3453, 0.3400



Tritanopia

12.4454, 0.2465, 0.3070

Trichromacy



Original Color

12.4929, 0.2673, 0.3900

Protanomaly

12.0121, 0.3119, 0.3759

Deuteranomaly

11.9103, 0.3100, 0.3556

Tritanomaly

12.3475, 0.2537, 0.3339

Monochromacy



Original Color

12.4929, 0.2673, 0.3900

Achromatopsia

9.9899, 0.3127, 0.3290

Achromatomaly

10.7098, 0.2914, 0.3523

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4929, 0.2673, 0.3900 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(49, 110, 87)` looks like.

```
.text, #text, p{  
    color:rgb(49, 110, 87)  
}
```

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(49, 110, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 110, 87) }
```

Border

The CSS property to change the border of an element to Yxy 12.4929, 0.2673, 0.3900 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(49, 110, 87) }
```

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

```
.border{ border-color:rgb(49, 110, 87) }
```

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

Here you see how a box with a 4 pixel rgb(49, 110, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 110, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 110, 87);  
box-shadow:4px 4px 4px 4px rgb(49, 110,  
87) }
```


Background

The CSS property to change the background color of an element to Yxy 12.4929, 0.2673, 0.3900 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 110, 87) }
```

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

```
.background{ background-color: rgb(49, 110,  
87) }
```

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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