

# Converting Colors

$Y_{xy}(9.5684, 0.0752, 0.4721)$

Have a look what the booklet for  
Yxy(9.5684, 0.0752, 0.4721)  
contains.

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**Color**

**Yxy(12.5991, 0.2521, 0.4276)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00724F
RGB	0, 114, 79
RGB Percent	0%, 45%, 31%
CMY	1.0000, 0.5529, 0.6902
CMYK	1.00, 0.00, 0.31, 0.55
HSL	162°, 100%, 22%
HSV	162°, 100%, 45%
XYZ	7.4280, 12.5991, 9.4375
YIQ	75.9240, -56.7090, -35.0530

# Conversions

## Conversions Part 2

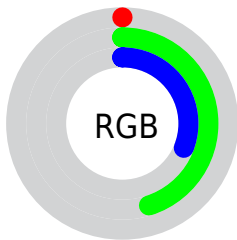
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 67, 114
Decimal	29263
CIELab	42.15, -36.89, 11.75
CIELCh	42, 38.715, 162.328
Yxy	12.5991, 0.2521, 0.4276
Android (android.graphics.Color)	4278219343 (0xFF00724F)
YUV	75.9240, 1.5165, -66.5853
Hunter-Lab	35.4952, -24.7621, 9.0825

# Details

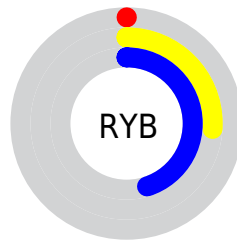
The Yxy color **12.5991, 0.2521, 0.4276** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **3.6990, 0.5630, 0.2875**, and the grayscale version is **7.2180, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.6518, 0.2687, 0.4010**, and **3.8961, 0.2649, 0.4737** is the 20% darker color. If you saturate the color by 10%, you get **12.5999, 0.2521, 0.4276**, and if you desaturate by 10%, it is **12.7262, 0.2520, 0.4164**.

# Distribution



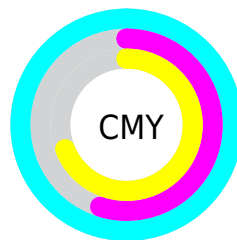
- Red (0%)
- Green (45%)
- Blue (31%)



- Red (0%)
- Yellow (26%)
- Blue (45%)



- Cyan (100%)
- Magenta (0%)
- Yellow (31%)
- Black (55%)




- Cyan (100%)
- Magenta (55%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.5991, 0.2521, 0.4276 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 12.5991, 0.2521, 0.4276 by changing the saturation by 10% instead.





 12.5991, 0.2521,  
0.4276

 12.5991, 0.2521,  
0.4276


208.3321, 0.2901,  
0.3649


 7.1531, 0.2383,  
0.4510


 30.5816, 0.2686,  
0.4001

 3.5580, 0.2167,  
0.4885

 43.8870, 0.2738,  
0.3914

 1.4295, 0.1543,  
0.5832

 60.5808, 0.2780,  
0.3846

 0.2383, 0.0000,  
1.0000

 81.0476, 0.2814,  
0.3791


 0.0000, 0.0000,  
0.0000


 105.6717, 0.2841,  
0.3746


 134.8376, 0.2865,

0.3708

 168.9296, 0.2884,  
0.3676


 12.5991, 0.2521,  
0.4276

 12.5991, 0.2521,  
0.4276


 12.5999, 0.2521,  
0.4276

 12.7262, 0.2520,  
0.4164

 12.8871, 0.2530,  
0.4052

 13.1086, 0.2558,  
0.3941

 13.3974, 0.2603,  
0.3832

 13.7591, 0.2665,  
0.3726

■ 14.1990, 0.2740,  
0.3626

■ 14.7217, 0.2826,  
0.3531

■ 15.3315, 0.2921,  
0.3444

■ 16.0323, 0.3022,  
0.3363

# Harmonies

## Analogous

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



12.5991, 0.3286, 0.4806



12.5991, 0.2521, 0.4276



12.5991, 0.1964, 0.3375

# Triad

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



12.5991, 0.2521, 0.4276



12.5991, 0.2142, 0.2044



12.5991, 0.4770, 0.3629

# Complementary

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



12.5991, 0.2521, 0.4276



3.6990, 0.5630, 0.2875

# 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.



12.5991, 0.4404, 0.3039



12.5991, 0.2521, 0.4276



12.5991, 0.2785, 0.2178

# Square

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



12.5991, 0.2521, 0.4276



12.5991, 0.1785, 0.2169



12.5991, 0.3630, 0.2530



12.5991, 0.4610, 0.4227



# Rectangle

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



12.5991, 0.2521, 0.4276



12.5991, 0.1766, 0.2827



12.5991, 0.3630, 0.2530



12.5991, 0.4707, 0.3428

# Sweetspot

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



12.5999, 0.2521, 0.4276



25.7924, 0.2819, 0.3538



12.4123, 0.3183, 0.5855



5.8938, 0.2791, 0.3568



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.



12.5999, 0.2521, 0.4276



22.1175, 0.2529, 0.4303



9.0617, 0.2089, 0.2719



3.7986, 0.3033, 0.3355



14.0222, 0.2523, 0.4282



69.6916, 0.2540, 0.4343



# Inverse Universe

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



3.6990, 0.5630, 0.2875



6.4792, 0.5694, 0.2910



4.1103, 0.6143, 0.3504



3.4168, 0.3231, 0.3226



4.1147, 0.5644, 0.2883



20.3589, 0.5782, 0.2959



# Previews

## White Background



This preview shows how the Yxy color 12.5991, 0.2521, 0.4276 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

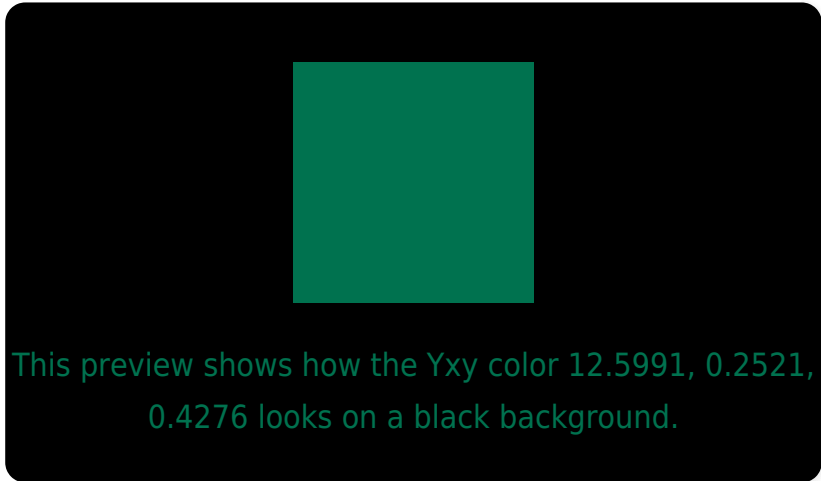
Any Text WCAG AA ✓ Pass

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 12.5991, 0.2521, 0.4276**

## **Background**



This preview shows how black text looks on a background with the Yxy color 12.5991, 0.2521, 0.4276.



This preview shows how white text looks on a background with the Yxy color 12.5991, 0.2521, 0.4276.

# 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

12.5991, 0.2521, 0.4276

### Protanopia

12.5174, 0.3638, 0.3894

### Deuteranopia

12.4538, 0.3626, 0.3549



## Tritanopia

12.6766, 0.2317, 0.3067

# Trichromacy



## Original Color

12.5991, 0.2521, 0.4276

## Protanomaly

11.6376, 0.2999, 0.4056

## Deuteranomaly

11.5284, 0.2979, 0.3807

## Tritanomaly

12.5750, 0.2369, 0.3471

# Monochromacy



## Original Color

12.5991, 0.2521, 0.4276

## Achromatopsia

7.2272, 0.3127, 0.3290

## Achromatomaly

8.4765, 0.2700, 0.3682

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.5991, 0.2521, 0.4276 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(0, 114, 79)` looks like.

```
.text, #text, p{  
    color:rgb(0, 114, 79)  
}
```

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(0, 114, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 114, 79) }
```

## Border

The CSS property to change the border of an element to Yxy 12.5991, 0.2521, 0.4276 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(0, 114, 79) }
```

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

```
.border{ border-color:rgb(0, 114, 79) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 114, 79)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 114, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 114, 79);  
box-shadow:4px 4px 4px 4px rgb(0, 114, 79)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 12.5991, 0.2521, 0.4276 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 114, 79) }
```

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

```
.background{ background-color: rgb(0, 114,  
79) }
```

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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