

# Converting Colors

$Y_{xy}(12.6763, 0.2264, 0.4399)$

Have a look what the booklet for  
Yxy(12.6763, 0.2264, 0.4399)  
contains.

<b>Yxy(13.3018, 0.2531, 0.4311)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(13.3018, 0.2531, 0.4311)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	007550
RGB	0, 117, 80
RGB Percent	0%, 46%, 31%
CMY	0.9998, 0.5412, 0.6863
CMYK	1.00, 0.00, 0.32, 0.54
HSL	161°, 100%, 23%
HSV	161°, 100%, 46%
XYZ	7.8095, 13.3018, 9.7442
YIQ	77.7990, -57.8550, -36.3110

# Conversions

## Conversions Part 2

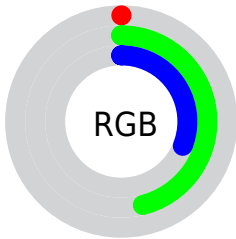
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 69, 117
Decimal	30032
CIELab	43.21, -37.87, 12.63
CIELCh	43, 39.918, 161.547
Yxy	13.3018, 0.2531, 0.4311
Android (android.graphics.Color)	4278220112 (0xFF007550)
YUV	77.7990, 1.0851, -68.2297
Hunter-Lab	36.4716, -25.6039, 9.6896

# Details

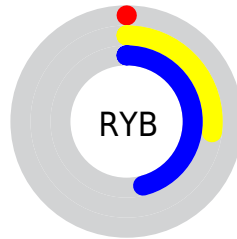
The Yxy color **13.3018, 0.2531, 0.4311** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **3.9171, 0.5602, 0.2860**, and the grayscale version is **7.5879, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.8303, 0.2693, 0.4036**, and **4.1357, 0.2652, 0.4747** is the 20% darker color. If you saturate the color by 10%, you get **13.3017, 0.2531, 0.4312**, and if you desaturate by 10%, it is **13.4346, 0.2529, 0.4195**.

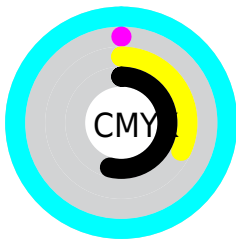
# Distribution



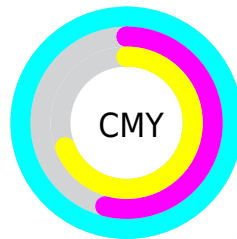
- Red (0%)
- Green (46%)
- Blue (31%)



- Red (0%)
- Yellow (27%)
- Blue (46%)



- Cyan (100%)
- Magenta (0%)
- Yellow (32%)
- Black (54%)




- Cyan (100%)
- Magenta (54%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.3018, 0.2531, 0.4311 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 13.3018, 0.2531, 0.4311 by changing the saturation by 10% instead.





 13.3018, 0.2531,  
0.4311

 13.3018, 0.2531,  
0.4311


212.8429, 0.2904,  
0.3665


 7.6367, 0.2397,  
0.4549


 31.8449, 0.2692,  
0.4029


 3.8634, 0.2188,  
0.4927

 45.4917, 0.2744,  
0.3940


 1.5974, 0.1681,  
0.5760


 62.5679, 0.2785,  
0.3869

 0.3559, 0.0000,  
1.0000

 83.4578, 0.2818,  
0.3812


 0.0000, 0.0000,  
0.0000


 108.5459, 0.2845,  
0.3766


 138.2165, 0.2868,

0.3727


 172.8540, 0.2887,  
0.3694

 13.3018, 0.2531,  
0.4311

 13.3018, 0.2531,  
0.4311


 13.3017, 0.2531,  
0.4312

 13.4346, 0.2529,  
0.4195

 13.6051, 0.2537,  
0.4080

 13.8400, 0.2564,  
0.3964

 14.1464, 0.2609,  
0.3851

 14.5305, 0.2669,  
0.3741

■ 14.9978, 0.2744,  
0.3637

■ 15.5534, 0.2829,  
0.3539

■ 16.2016, 0.2924,  
0.3448

■ 16.9469, 0.3024,  
0.3365

# Harmonies

## Analogous

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



13.3018, 0.3306, 0.4832



13.3018, 0.2531, 0.4311



13.3018, 0.1961, 0.3399

# Triad

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



13.3018, 0.2531, 0.4311



13.3018, 0.2118, 0.2031



13.3018, 0.4787, 0.3614

# Complementary

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



13.3018, 0.2531, 0.4311



3.9171, 0.5602, 0.2860

# 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.



13.3018, 0.4404, 0.3021



13.3018, 0.2531, 0.4311



13.3018, 0.2760, 0.2160

# Square

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



13.3018, 0.2531, 0.4311



13.3018, 0.1766, 0.2164



13.3018, 0.3612, 0.2510



13.3018, 0.4636, 0.4220



# Rectangle

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



13.3018, 0.2531, 0.4311



13.3018, 0.1757, 0.2839



13.3018, 0.3612, 0.2510



13.3018, 0.4719, 0.3411

# Sweetspot

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



13.3023, 0.2531, 0.4311



27.7633, 0.2822, 0.3547



13.1179, 0.3182, 0.5855



6.3048, 0.2793, 0.3579



60.3827, 0.3127, 0.3290



7.3239, 0.3127, 0.3290



# Same Dimension

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



13.3023, 0.2531, 0.4311



23.7939, 0.2539, 0.4340



9.5705, 0.2088, 0.2718



4.1365, 0.3033, 0.3358



14.6524, 0.2532, 0.4317



71.2427, 0.2549, 0.4378



# Inverse Universe

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



3.9171, 0.5602, 0.2860



6.9891, 0.5667, 0.2896



4.3367, 0.6146, 0.3501



3.7182, 0.3231, 0.3223



4.3115, 0.5615, 0.2867



20.8711, 0.5750, 0.2941



# Previews

## White Background



This preview shows how the Yxy color 13.3018, 0.2531, 0.4311 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 13.3018, 0.2531, 0.4311 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 13.3018, 0.2531, 0.4311**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.3018, 0.2531, 0.4311.



This preview shows how white text looks on a background with the Yxy color 13.3018, 0.2531, 0.4311.

# 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

13.3018, 0.2531, 0.4311

### Protanopia

13.2988, 0.3653, 0.3923

### Deuteranopia

13.2270, 0.3642, 0.3585



## Tritanopia

13.4199, 0.2317, 0.3072

# Trichromacy



## Original Color

13.3018, 0.2531, 0.4311

## Protanomaly

12.3393, 0.3013, 0.4090

## Deuteranomaly

12.2235, 0.2994, 0.3846

## Tritanomaly

13.2819, 0.2372, 0.3493

# Monochromacy



## Original Color

13.3018, 0.2531, 0.4311

## Achromatopsia

7.6185, 0.3127, 0.3290

## Achromatomaly

8.8969, 0.2706, 0.3673

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.3018, 0.2531, 0.4311 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, 117, 80)` looks like.

```
.text, #text, p{  
    color:rgb(0, 117, 80)  
}
```

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, 117, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 117, 80) }
```

## Border

The CSS property to change the border of an element to Yxy 13.3018, 0.2531, 0.4311 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, 117, 80) }
```

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

```
.border{ border-color:rgb(0, 117, 80) }
```

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

Here you see how a box with a 4 pixel rgb(0, 117, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 117, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 117, 80);  
box-shadow:4px 4px 4px 4px rgb(0, 117, 80)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 13.3018, 0.2531, 0.4311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 117, 80) }
```

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

```
.background{ background-color: rgb(0, 117,  
80) }
```

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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