

Converting Colors

$Y_{xy}(13.0295, 0.2766, 0.5156)$

Have a look what the booklet for
Yxy(13.0295, 0.2766, 0.5156)
contains.

Yxy(12.9616, 0.2763, 0.5146)	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

Yxy(12.9616, 0.2763, 0.5146)

Conversions

Conversions Part 1

Format	Color
Hex	007533
RGB	0, 117, 51
RGB Percent	0%, 46%, 20%
CMY	0.9997, 0.5412, 0.8000
CMYK	1.00, 0.00, 0.56, 0.54
HSL	146°, 100%, 23%
HSV	146°, 100%, 46%
XYZ	6.9594, 12.9616, 5.2668
YIQ	74.4930, -48.5460, -45.3300

Conversions

Conversions Part 2

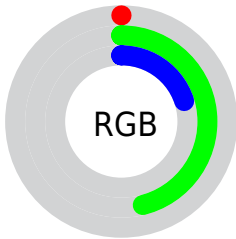
Format	Color
RYB	0, 81, 117
Decimal	30003
CIELab	42.71, -43.86, 28.34
CIELCh	43, 52.225, 147.129
Yxy	12.9616, 0.2763, 0.5146
Android (android.graphics.Color)	4278220083 (0xFF007533)
YUV	74.4930, -11.5820, -65.3304
Hunter-Lab	36.0022, -28.4992, 16.5280

Details

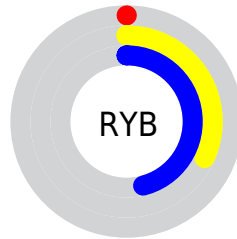
The Yxy color **12.9616, 0.2763, 0.5146** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **4.1775, 0.4615, 0.2317**, and the grayscale version is **6.9716, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1462, 0.2895, 0.4617**, and **4.0231, 0.2968, 0.5885** is the 20% darker color. If you saturate the color by 10%, you get **12.9614, 0.2763, 0.5147**, and if you desaturate by 10%, it is **13.1006, 0.2745, 0.4951**.

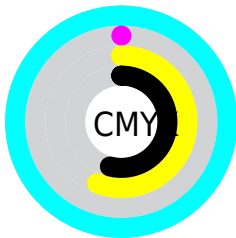
Distribution



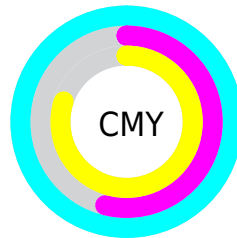
- Red (0%)
- Green (46%)
- Blue (20%)



- Red (0%)
- Yellow (32%)
- Blue (46%)



- Cyan (100%)
- Magenta (0%)
- Yellow (56%)
- Black (54%)





- Cyan (100%)
- Magenta (54%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9616, 0.2763, 0.5146 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 12.9616, 0.2763, 0.5146 by changing the saturation by 10% instead.


 12.9616, 0.2763,
0.5146


 12.9616, 0.2763,
0.5146


210.6714, 0.3032,
0.3945


 7.4021, 0.2633,
0.5596


 31.2348, 0.2896,
0.4616


 3.7148, 0.2403,
0.6313

 44.7173, 0.2933,
0.4448


 1.5154, 0.1494,
0.8506

 61.6095, 0.2961,
0.4318

 0.2995, 0.0000,
1.0000

 82.2960, 0.2982,
0.4213


 0.0000, 0.0000,
0.0000


 107.1610, 0.2998,
0.4128


 136.5890, 0.3012,


0.4057


 170.9643, 0.3023,
0.3997

 12.9616, 0.2763,
0.5146


 12.9616, 0.2763,
0.5146


 12.9614, 0.2763,
0.5147

 13.1006, 0.2745,
0.4951

 13.2829, 0.2736,
0.4747

 13.5354, 0.2745,
0.4536

 13.8655, 0.2771,
0.4326

 14.2796, 0.2811,
0.4121

■ 14.7835, 0.2862,
0.3926

■ 15.3822, 0.2922,
0.3744

■ 16.0807, 0.2988,
0.3577

■ 16.8833, 0.3057,
0.3425

Harmonies

Analogous

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



12.9616, 0.3761, 0.5323



12.9616, 0.2763, 0.5146



12.9616, 0.1916, 0.4029

Triad

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



12.9616, 0.2763, 0.5146



12.9616, 0.1614, 0.1751



12.9616, 0.5146, 0.3265

Complementary

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



12.9616, 0.2763, 0.5146



4.1775, 0.4615, 0.2317

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.



12.9616, 0.4339, 0.2602



12.9616, 0.2763, 0.5146



12.9616, 0.2212, 0.1777

Square

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



12.9616, 0.2763, 0.5146



12.9616, 0.1366, 0.2053



12.9616, 0.3186, 0.2075



12.9616, 0.5217, 0.3992

Rectangle

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



12.9616, 0.2763, 0.5146



12.9616, 0.1558, 0.3168



12.9616, 0.3186, 0.2075



12.9616, 0.4950, 0.3035

Sweetspot

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



12.9621, 0.2763, 0.5146



27.4492, 0.2917, 0.3758



13.8925, 0.3487, 0.5613



6.2265, 0.2896, 0.3817



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.



12.9621, 0.2763, 0.5146



23.1835, 0.2776, 0.5192



13.8317, 0.2302, 0.3486



4.1222, 0.3063, 0.3412



14.2775, 0.2765, 0.5155



69.4100, 0.2792, 0.5251

Inverse Universe

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



4.1775, 0.4615, 0.2317



7.4499, 0.4661, 0.2342



3.8006, 0.6280, 0.3234



3.7323, 0.3197, 0.3171



4.5976, 0.4625, 0.2321



22.2300, 0.4722, 0.2375

Previews

White Background



This preview shows how the Yxy color 12.9616, 0.2763, 0.5146 looks on a white background.

Color Contrast Check

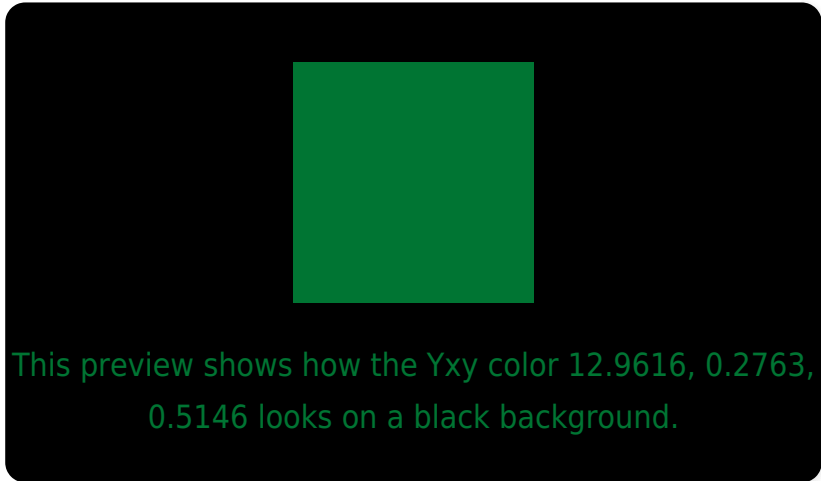
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9616, 0.2763, 0.5146

Background



This preview shows how black text looks on a background with the Yxy color 12.9616, 0.2763, 0.5146.



This preview shows how white text looks on a background with the Yxy color 12.9616, 0.2763, 0.5146.

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

12.9616, 0.2763, 0.5146

Protanopia

12.9494, 0.4046, 0.4429

Deuteranopia

12.8721, 0.4139, 0.4070



Tritanopia

13.0646, 0.2358, 0.3071

Trichromacy



Original Color

12.9616, 0.2763, 0.5146

Protanomaly

12.0684, 0.3337, 0.4800

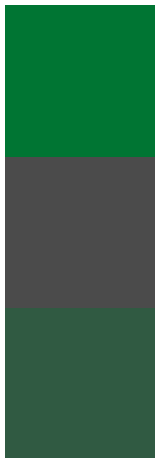
Deuteranomaly

11.7962, 0.3377, 0.4536

Tritanomaly

12.8796, 0.2484, 0.3794

Monochromacy



Original Color

12.9616, 0.2763, 0.5146

Achromatopsia

7.0360, 0.3127, 0.3290

Achromatomaly

8.3341, 0.2837, 0.4037

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9616, 0.2763, 0.5146 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(0, 117, 51)  
}
```

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, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 117, 51) }
```

Border

The CSS property to change the border of an element to Yxy 12.9616, 0.2763, 0.5146 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, 51) }
```

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

```
.border{ border-color:rgb(0, 117, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 117, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 117, 51);  
box-shadow:4px 4px 4px 4px rgb(0, 117, 51)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.9616, 0.2763, 0.5146 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, 51) }
```

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

```
.background{ background-color: rgb(0, 117,  
51) }
```

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