

Converting Colors

$Y_{xy}(12.9427, 0.2779, 0.5205)$

Have a look what the booklet for
Yxy(12.9427, 0.2779, 0.5205)
contains.

Yxy(12.9443, 0.2777, 0.5199)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.9443, 0.2777, 0.5199)

Conversions

Conversions Part 1

Format	Color
Hex	007531
RGB	0, 117, 49
RGB Percent	0%, 46%, 19%
CMY	1.0000, 0.5412, 0.8079
CMYK	1.00, 0.00, 0.58, 0.54
HSL	145°, 100%, 23%
HSV	145°, 100%, 46%
XYZ	6.9141, 12.9443, 5.0393
YIQ	74.2650, -47.9040, -45.9520

Conversions

Conversions Part 2

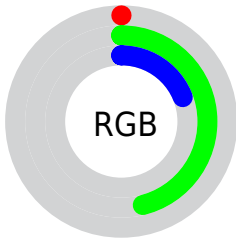
Format	Color
RYB	0, 82, 117
Decimal	30001
CIELab	42.68, -44.21, 29.36
CIElCh	43, 53.069, 146.405
Yxy	12.9443, 0.2777, 0.5199
Android (android.graphics.Color)	4278220081 (0xFF007531)
YUV	74.2650, -12.4556, -65.1304
Hunter-Lab	35.9782, -28.6587, 16.8803

Details

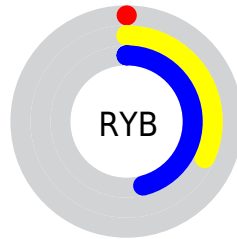
The Yxy color **12.9443, 0.2777, 0.5199** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **4.1998, 0.4550, 0.2280**, and the grayscale version is **6.9272, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1084, 0.2908, 0.4655**, and **4.0165, 0.2992, 0.5971** is the 20% darker color. If you saturate the color by 10%, you get **12.9458, 0.2777, 0.5199**, and if you desaturate by 10%, it is **13.0837, 0.2759, 0.5001**.

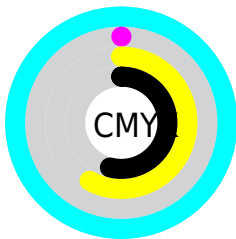
Distribution



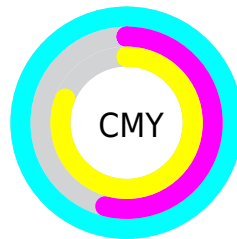
- Red (0%)
- Green (46%)
- Blue (19%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (58%)
- Black (54%)




- Cyan (100%)
- Magenta (54%)
- Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9443, 0.2777, 0.5199 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 12.9443, 0.2777, 0.5199 by changing the saturation by 10% instead.


 12.9443, 0.2777,
0.5199

 12.9443, 0.2777,
0.5199


210.5604, 0.3040,
0.3964


 7.3902, 0.2646,
0.5661


 31.2037, 0.2909,
0.4654


 3.7073, 0.2417,
0.6407

 44.6778, 0.2946,
0.4481


 1.5112, 0.1444,
0.8556

 61.5606, 0.2972,
0.4347

 0.2966, 0.0000,
1.0000

 82.2366, 0.2993,
0.4239

 0.0000, 0.0000,
0.0000

 107.0902, 0.3009,
0.4151


 136.5058, 0.3021,


0.4078


 170.8677, 0.3032,
0.4016


 12.9443, 0.2777,
0.5199


 12.9443, 0.2777,
0.5199


 12.9458, 0.2777,
0.5199

 13.0837, 0.2759,
0.5001

 13.2655, 0.2750,
0.4793

 13.5179, 0.2758,
0.4576

 13.8484, 0.2782,
0.4359

 14.2634, 0.2820,
0.4148

■ 14.7686, 0.2870,
0.3947

■ 15.3694, 0.2928,
0.3759

■ 16.0704, 0.2992,
0.3586

■ 16.8762, 0.3059,
0.3430

Harmonies

Analogous

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



12.9443, 0.3787, 0.5346



12.9443, 0.2777, 0.5199



12.9443, 0.1913, 0.4074

Triad

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



12.9443, 0.2777, 0.5199



12.9443, 0.1585, 0.1735



12.9443, 0.5166, 0.3242

Complementary

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



12.9443, 0.2777, 0.5199



4.1998, 0.4550, 0.2280

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.



12.9443, 0.4332, 0.2577



12.9443, 0.2777, 0.5199



12.9443, 0.2179, 0.1755

Square

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



12.9443, 0.2777, 0.5199



12.9443, 0.1343, 0.2046



12.9443, 0.3158, 0.2049



12.9443, 0.5253, 0.3975

Rectangle

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



12.9443, 0.2777, 0.5199



12.9443, 0.1546, 0.3193



12.9443, 0.3158, 0.2049



12.9443, 0.4962, 0.3011

Sweetspot

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



12.9458, 0.2777, 0.5199



27.4291, 0.2923, 0.3773



13.9622, 0.3511, 0.5594



6.2215, 0.2904, 0.3833



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.



12.9458, 0.2777, 0.5199



23.1534, 0.2790, 0.5244



13.7911, 0.2316, 0.3537



4.1213, 0.3065, 0.3416



14.2588, 0.2780, 0.5207



69.3218, 0.2806, 0.5303

Inverse Universe

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



4.1998, 0.4550, 0.2280



7.4924, 0.4593, 0.2304



3.8037, 0.6253, 0.3218



3.7332, 0.3194, 0.3167



4.6236, 0.4558, 0.2284



22.3577, 0.4650, 0.2335

Previews

White Background



This preview shows how the Yxy color 12.9443, 0.2777, 0.5199 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 12.9443, 0.2777, 0.5199 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 12.9443, 0.2777, 0.5199

Background



This preview shows how black text looks on a background with the Yxy color 12.9443, 0.2777, 0.5199.



This preview shows how white text looks on a background with the Yxy color 12.9443, 0.2777, 0.5199.

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

12.9443, 0.2777, 0.5199

Protanopia

12.9340, 0.4068, 0.4463

Deuteranopia

12.8525, 0.4166, 0.4106



Tritanopia

13.0646, 0.2358, 0.3071

Trichromacy



Original Color

12.9443, 0.2777, 0.5199

Protanomaly

12.0522, 0.3357, 0.4846

Deuteranomaly

11.7774, 0.3400, 0.4584

Tritanomaly

12.8796, 0.2484, 0.3794

Monochromacy



Original Color

12.9443, 0.2777, 0.5199

Achromatopsia

6.8478, 0.3127, 0.3290

Achromatomaly

8.2983, 0.2838, 0.4072

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9443, 0.2777, 0.5199 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, 49)` looks like.

```
.text, #text, p{  
    color:rgb(0, 117, 49)  
}
```

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, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 117, 49) }
```

Border

The CSS property to change the border of an element to Yxy 12.9443, 0.2777, 0.5199 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, 49) }
```

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

```
.border{ border-color:rgb(0, 117, 49) }
```

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, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 117, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 117, 49);  
box-shadow:4px 4px 4px 4px rgb(0, 117, 49)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.9443, 0.2777, 0.5199 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, 49) }
```

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

```
.background{ background-color: rgb(0, 117,  
49) }
```

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