

Converting Colors

$Y_{xy}(12.7589, 0.2945, 0.5801)$

Have a look what the booklet for
Yxy(12.7589, 0.2945, 0.5801)
contains.

Yxy(12.7696, 0.2947, 0.5808)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.7696, 0.2947, 0.5808)

Conversions

Conversions Part 1

Format	Color
Hex	007513
RGB	0, 117, 19
RGB Percent	0%, 46%, 7%
CMY	0.9996, 0.5412, 0.9257
CMYK	1.00, 0.00, 0.84, 0.54
HSL	130°, 100%, 23%
HSV	130°, 100%, 46%
XYZ	6.4793, 12.7696, 2.7373
YIQ	70.8450, -38.2740, -55.2820

Conversions

Conversions Part 2

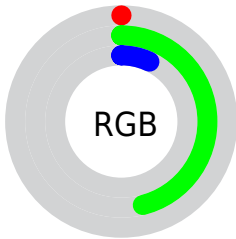
Format	Color
RYB	0, 101, 117
Decimal	29971
CIELab	42.41, -47.53, 42.12
CIELCh	42, 63.512, 138.451
Yxy	12.7696, 0.2947, 0.5808
Android (android.graphics.Color)	4278220051 (0xFF007513)
YUV	70.8450, -25.5596, -62.1311
Hunter-Lab	35.7346, -30.1702, 20.4726

Details

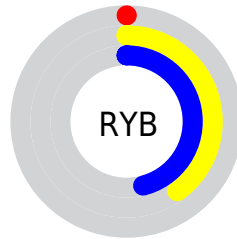
The Yxy color **12.7696, 0.2947, 0.5808** is a dark color, and the websafe version is hex **006600**. A complement of this color would be **4.6682, 0.3644, 0.1782**, and the grayscale version is **6.3264, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.7822, 0.3081, 0.5107**, and **4.0143, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **12.7693, 0.2947, 0.5809**, and if you desaturate by 10%, it is **12.8869, 0.2939, 0.5628**.

Distribution



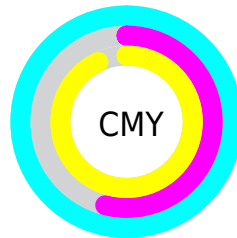
- Red (0%)
- Green (46%)
- Blue (7%)



- Red (0%)
- Yellow (40%)
- Blue (46%)



- Cyan (100%)
- Magenta (0%)
- Yellow (84%)
- Black (54%)



- Cyan (100%)
- Magenta (54%)
- Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.7696, 0.2947, 0.5808 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 12.7696, 0.2947, 0.5808 by changing the saturation by 10% instead.

■ 12.7696, 0.2947,
0.5808

■ 12.7696, 0.2947,
0.5808

■ 209.4357, 0.3156,
0.4186

■ 7.2701, 0.2788,
0.6369

■ 30.8892, 0.3080,
0.5106

■ 3.6316, 0.2562,
0.7438

■ 44.2781, 0.3109,
0.4878

■ 1.4697, 0.0903,
0.9097

■ 61.0656, 0.3127,
0.4699

■ 0.2672, 0.0000,
1.0000


■ 81.6361, 0.3139,
0.4556

■ 0.0000, 0.0000,
0.0000


■ 106.3740, 0.3146,
0.4438


■ 135.6636, 0.3151,


0.4340


 169.8894, 0.3154,
0.4257

 12.7696, 0.2947,
0.5808


 12.7696, 0.2947,
0.5808


 12.7693, 0.2947,
0.5809

 12.8869, 0.2939,
0.5628

 13.0544, 0.2932,
0.5401

 13.3000, 0.2934,
0.5134

 13.6320, 0.2947,
0.4842

 14.0575, 0.2968,
0.4543

■ 14.5832, 0.2995,
0.4251

■ 15.2147, 0.3027,
0.3974

■ 15.9575, 0.3060,
0.3721

■ 16.8167, 0.3094,
0.3492

Harmonies

Analogous

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



12.7696, 0.4089, 0.5522



12.7696, 0.2947, 0.5808



12.7696, 0.1902, 0.4691

Triad

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



12.7696, 0.2947, 0.5808



12.7696, 0.1266, 0.1557



12.7696, 0.5372, 0.2970

Complementary

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



12.7696, 0.2947, 0.5808



4.6682, 0.3644, 0.1782

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.



12.7696, 0.4191, 0.2273



12.7696, 0.2947, 0.5808



12.7696, 0.1802, 0.1506

Square

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



12.7696, 0.2947, 0.5808



12.7696, 0.1093, 0.1992



12.7696, 0.2800, 0.1753



12.7696, 0.5658, 0.3742

Rectangle

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



12.7696, 0.2947, 0.5808



12.7696, 0.1424, 0.3543



12.7696, 0.2800, 0.1753



12.7696, 0.5056, 0.2727

Sweetspot

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



12.7701, 0.2947, 0.5808



27.1410, 0.3024, 0.3997



15.4017, 0.3941, 0.5252



6.1508, 0.3013, 0.4086



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.



12.7701, 0.2947, 0.5808



22.8513, 0.2956, 0.5842



13.2462, 0.2563, 0.4427



4.1070, 0.3097, 0.3473



14.0671, 0.2949, 0.5815



68.4645, 0.2967, 0.5880

Inverse Universe

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



4.6682, 0.3644, 0.1782



8.3389, 0.3657, 0.1788



3.9440, 0.5475, 0.2791



3.7483, 0.3159, 0.3114



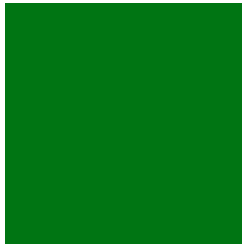
5.1390, 0.3647, 0.1783



24.9372, 0.3674, 0.1798

Previews

White Background



This preview shows how the Yxy color 12.7696, 0.2947, 0.5808 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 12.7696, 0.2947, 0.5808 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

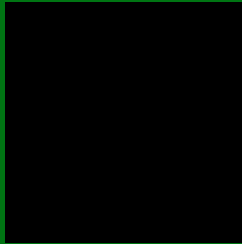
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7696, 0.2947, 0.5808

Background



This preview shows how black text looks on a background with the Yxy color 12.7696, 0.2947, 0.5808.



This preview shows how white text looks on a background with the Yxy color 12.7696, 0.2947, 0.5808.

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

12.7696, 0.2947, 0.5808

Protanopia

12.6568, 0.4343, 0.4802

Deuteranopia

12.6433, 0.4490, 0.4436



Tritanopia

12.8983, 0.2382, 0.3071

Trichromacy



Original Color

12.7696, 0.2947, 0.5808

Protanomaly

11.7232, 0.3603, 0.5334

Deuteranomaly

11.4851, 0.3689, 0.5070

Tritanomaly

12.4888, 0.2597, 0.4115

Monochromacy



Original Color

12.7696, 0.2947, 0.5808

Achromatopsia

6.3010, 0.3127, 0.3290

Achromatomaly

7.7853, 0.2974, 0.4460

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7696, 0.2947, 0.5808 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, 19)` looks like.

```
.text, #text, p{  
    color:rgb(0, 117, 19)  
}
```

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, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 117, 19) }
```

Border

The CSS property to change the border of an element to Yxy 12.7696, 0.2947, 0.5808 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, 19) }
```

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

```
.border{ border-color:rgb(0, 117, 19) }
```

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, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 117, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 117, 19);  
box-shadow:4px 4px 4px 4px rgb(0, 117, 19)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.7696, 0.2947, 0.5808 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, 19) }
```

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

```
.background{ background-color: rgb(0, 117,  
19) }
```

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