

# Converting Colors

$Y_{xy}(11.3280, 0.2372, 0.6123)$

Have a look what the booklet for  
Yxy(11.3280, 0.2372, 0.6123)  
contains.

<b>Yxy(12.3233, 0.2928, 0.5741)</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(12.3233, 0.2928, 0.5741)**

# Conversions

## Conversions Part 1

Format	Color
Hex	007317
RGB	0, 115, 23
RGB Percent	0%, 45%, 9%
CMY	1.0000, 0.5490, 0.9099
CMYK	1.00, 0.00, 0.80, 0.55
HSL	132°, 100%, 23%
HSV	132°, 100%, 45%
XYZ	6.2851, 12.3233, 2.8570
YIQ	70.1270, -39.0080, -52.9920

# Conversions

## Conversions Part 2

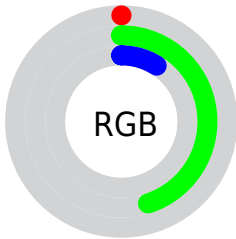
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 96, 115
Decimal	29463
CIELab	41.73, -46.63, 40.10
CIELCh	42, 61.495, 139.307
Yxy	12.3233, 0.2928, 0.5741
Android (android.graphics.Color)	4278219543 (0xFF007317)
YUV	70.1270, -23.2336, -61.5014
Hunter-Lab	35.1046, -29.4746, 19.7478

# Details

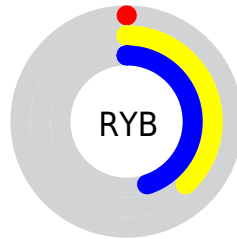
The Yxy color **12.3233, 0.2928, 0.5741** is a dark color, and the websafe version is hex **006600**. A complement of this color would be **4.4180, 0.3763, 0.1846**, and the grayscale version is **6.1913, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0362, 0.3058, 0.5042**, and **3.7806, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **12.3239, 0.2928, 0.5741**, and if you desaturate by 10%, it is **12.4420, 0.2917, 0.5550**.

# Distribution



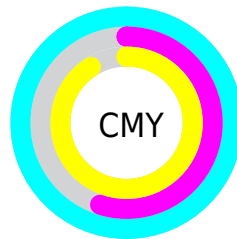
- Red (0%)
- Green (45%)
- Blue (9%)



- Red (0%)
- Yellow (38%)
- Blue (45%)



- Cyan (100%)
- Magenta (0%)
- Yellow (80%)
- Black (55%)




- Cyan (100%)
- Magenta (55%)
- Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.3233, 0.2928, 0.5741 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 12.3233, 0.2928, 0.5741 by changing the saturation by 10% instead.





 12.3233, 0.2928,  
0.5741


 12.3233, 0.2928,  
0.5741


206.5340, 0.3142,  
0.4153

 6.9643, 0.2771,  
0.6304


 30.0826, 0.3060,  
0.5048


 3.4398, 0.2564,  
0.7436

 43.2516, 0.3090,  
0.4825


 1.3654, 0.0654,  
0.9346

 59.7927, 0.3109,  
0.4650

 0.1910, 0.0000,  
1.0000


 80.0904, 0.3121,  
0.4511


 0.0000, 0.0000,  
0.0000


 104.5290, 0.3130,  
0.4397


 133.4928, 0.3135,

0.4302


 167.3664, 0.3139,  
0.4222


 12.3233, 0.2928,  
0.5741


 12.3233, 0.2928,  
0.5741

 12.3239, 0.2928,  
0.5741

 12.4420, 0.2917,  
0.5550

 12.6071, 0.2908,  
0.5319

 12.8462, 0.2910,  
0.5054

 13.1670, 0.2923,  
0.4771

 13.5764, 0.2946,  
0.4484

■ 14.0803, 0.2977,  
0.4205

■ 14.6842, 0.3012,  
0.3942

■ 15.3931, 0.3050,  
0.3701

■ 16.2120, 0.3089,  
0.3484

# Harmonies

## Analogous

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



12.3233, 0.4055, 0.5510



12.3233, 0.2928, 0.5741



12.3233, 0.1903, 0.4612

# Triad

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



12.3233, 0.2928, 0.5741



12.3233, 0.1301, 0.1576



12.3233, 0.5351, 0.3002

# Complementary

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



12.3233, 0.2928, 0.5741



4.4180, 0.3763, 0.1846

# 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.



12.3233, 0.4212, 0.2308



12.3233, 0.2928, 0.5741



12.3233, 0.1844, 0.1533

# Square

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



12.3233, 0.2928, 0.5741



12.3233, 0.1120, 0.1996



12.3233, 0.2843, 0.1787



12.3233, 0.5612, 0.3771



# Rectangle

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



12.3233, 0.2928, 0.5741



12.3233, 0.1437, 0.3497



12.3233, 0.2843, 0.1787



12.3233, 0.5049, 0.2760

# Sweetspot

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



12.3239, 0.2928, 0.5741



26.2015, 0.3009, 0.3962



14.6375, 0.3886, 0.5297



6.1608, 0.2997, 0.4048



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.



12.3239, 0.2928, 0.5741



22.0507, 0.2938, 0.5778



12.8206, 0.2531, 0.4310



4.1091, 0.3092, 0.3464



14.0854, 0.2931, 0.5751



68.5389, 0.2951, 0.5824



# Inverse Universe

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



4.4180, 0.3763, 0.1846



7.8921, 0.3779, 0.1856



3.7750, 0.5598, 0.2857



3.7460, 0.3164, 0.3122



5.0475, 0.3767, 0.1849

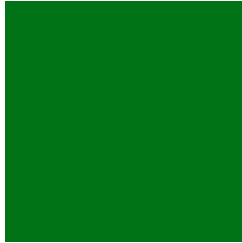


24.4734, 0.3802, 0.1868



# Previews

## White Background



This preview shows how the Yxy color 12.3233, 0.2928, 0.5741 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

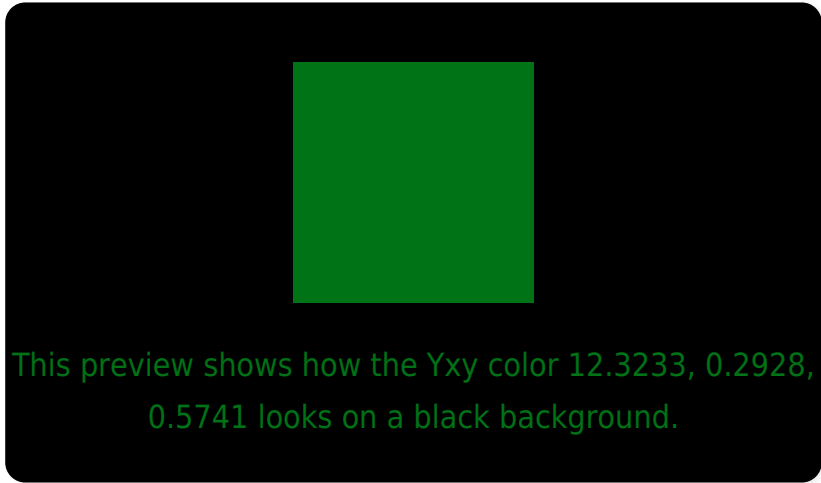
Any Text WCAG AA ✓ Pass

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 12.3233, 0.2928, 0.5741**

## **Background**



This preview shows how black text looks on a background with the Yxy color 12.3233, 0.2928, 0.5741.



This preview shows how white text looks on a background with the Yxy color 12.3233, 0.2928, 0.5741.

# 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

12.3233, 0.2928, 0.5741

### Protanopia

12.3502, 0.4300, 0.4769

### Deuteranopia

12.1495, 0.4471, 0.4396



## Tritanopia

12.4047, 0.2381, 0.3067

# Trichromacy



## Original Color

12.3233, 0.2928, 0.5741



## Protanomaly

11.4933, 0.3577, 0.5287



## Deuteranomaly

11.0158, 0.3661, 0.5030



## Tritanomaly

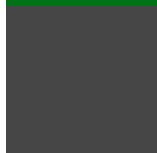
12.0524, 0.2587, 0.4069

# Monochromacy



## Original Color

12.3233, 0.2928, 0.5741



## Achromatopsia

6.1246, 0.3127, 0.3290



## Achromatomaly

7.4705, 0.2960, 0.4377

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.3233, 0.2928, 0.5741 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, 115, 23)` looks like.

```
.text, #text, p{  
    color:rgb(0, 115, 23)  
}
```

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, 115, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 115, 23) }
```

## Border

The CSS property to change the border of an element to Yxy 12.3233, 0.2928, 0.5741 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, 115, 23) }
```

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

```
.border{ border-color:rgb(0, 115, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 115, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 115, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 115, 23);  
box-shadow:4px 4px 4px 4px rgb(0, 115, 23)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 12.3233, 0.2928, 0.5741 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 115, 23) }
```

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

```
.background{ background-color: rgb(0, 115,  
23) }
```

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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