

# Converting Colors

$Y_{xy}(13.9111, 0.3539, 0.5259)$

Have a look what the booklet for  
Yxy(13.9111, 0.3539, 0.5259)  
contains.

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**Color**

**Yxy(13.9138, 0.3544, 0.5258)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4D731A
RGB	77, 115, 26
RGB Percent	30%, 45%, 10%
CMY	0.6980, 0.5490, 0.8979
CMYK	0.33, 0.00, 0.77, 0.55
HSL	86°, 63%, 28%
HSV	86°, 77%, 45%
XYZ	9.3782, 13.9138, 3.1702
YIQ	93.4920, 5.9210, -35.7350

# Conversions

## Conversions Part 2

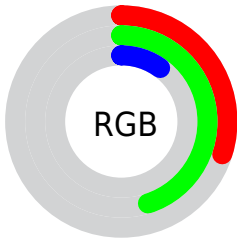
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	26, 115, 64
Decimal	5075738
CIE Lab	44.11, -28.05, 42.11
CIE LCh	44, 50.593, 123.665
Yxy	13.9138, 0.3544, 0.5258
Android (android.graphics.Color)	4283265818 (0xFF4D731A)
YUV	93.4920, -33.2736, -14.4635
Hunter-Lab	37.3012, -20.3990, 21.0719

# Details

The Yxy color **13.9138, 0.3544, 0.5258** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **3.0688, 0.2217, 0.1219**, and the grayscale version is **11.1473, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.8404, 0.3502, 0.4750**, and **4.1433, 0.3351, 0.5721** is the 20% darker color. If you saturate the color by 10%, you get **13.6762, 0.3533, 0.5432**, and if you desaturate by 10%, it is **14.1887, 0.3534, 0.5042**.

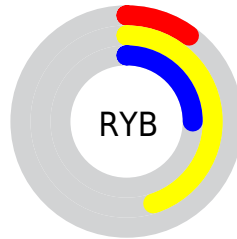
# Distribution



Red (30%)

Green (45%)

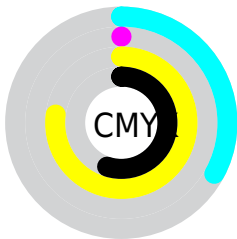
Blue (10%)



Red (10%)

Yellow (45%)

Blue (25%)

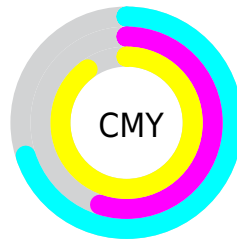


Cyan (33%)

Magenta (0%)

Yellow (77%)

Black (55%)



Cyan (70%)

Magenta (55%)


Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.9138, 0.3544, 0.5258 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 13.9138, 0.3544, 0.5258 by changing the saturation by 10% instead.





 13.9138, 0.3544,  
0.5258


 13.9138, 0.3544,  
0.5258


216.6939, 0.3367,  
0.4046


 8.0607, 0.3532,  
0.5641


 32.9360, 0.3506,  
0.4755


 4.1338, 0.3585,  
0.6415

 46.8739, 0.3481,  
0.4585

 1.7487, 0.3139,  
0.6861

 64.2756, 0.3457,  
0.4449

 0.4549, 0.0000,  
1.0000


 85.5254, 0.3435,  
0.4339


 0.0000, 0.0000,  
0.0000


 111.0077, 0.3415,  
0.4247

 141.1070, 0.3398,

0.4169


 176.2076, 0.3382,  
0.4103


 13.9138, 0.3544,  
0.5258


 13.9138, 0.3544,  
0.5258


 13.6762, 0.3533,  
0.5432


 14.1887, 0.3534,  
0.5042


 13.4681, 0.3504,  
0.5569

 14.5017, 0.3504,  
0.4794

 13.4161, 0.3497,  
0.5605

 14.8555, 0.3457,  
0.4526

 15.2522, 0.3398,  
0.4250

 15.6937, 0.3330,  
0.3977

■ 16.1817, 0.3257,  
0.3712

■ 16.7179, 0.3182,  
0.3463

■ 17.3038, 0.3108,  
0.3231

■ 17.9408, 0.3035,  
0.3018

# Harmonies

## Analogous

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



13.9138, 0.4439, 0.4849



13.9138, 0.3544, 0.5258



13.9138, 0.2594, 0.4861

# Triad

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



13.9138, 0.3544, 0.5258



13.9138, 0.1461, 0.2017



13.9138, 0.4490, 0.2769

# Complementary

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



13.9138, 0.3544, 0.5258



3.0688, 0.2217, 0.1219

# 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.



13.9138, 0.3425, 0.2221



13.9138, 0.3544, 0.5258



13.9138, 0.1772, 0.1796

# Square

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



13.9138, 0.3544, 0.5258



13.9138, 0.1472, 0.2637



13.9138, 0.2431, 0.1879



13.9138, 0.5121, 0.3430



# Rectangle

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



13.9138, 0.3544, 0.5258



13.9138, 0.2056, 0.4133



13.9138, 0.2431, 0.1879



13.9138, 0.4157, 0.2569

# Sweetspot

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



13.9144, 0.3544, 0.5258



28.4208, 0.3303, 0.3876



7.2859, 0.4958, 0.3996



6.7204, 0.3324, 0.3955



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.



13.9144, 0.3544, 0.5258



24.1883, 0.3508, 0.5539



12.6672, 0.3068, 0.5584



4.1921, 0.3195, 0.3504



15.3243, 0.3493, 0.5609



74.1642, 0.3459, 0.5636



# Inverse Universe

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



3.0688, 0.2217, 0.1219



3.7581, 0.1986, 0.0910



5.1402, 0.3053, 0.1635



3.6592, 0.3055, 0.3075



2.1524, 0.1924, 0.0834



10.0048, 0.1872, 0.0805



# Previews

## White Background



This preview shows how the Yxy color 13.9138, 0.3544, 0.5258 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

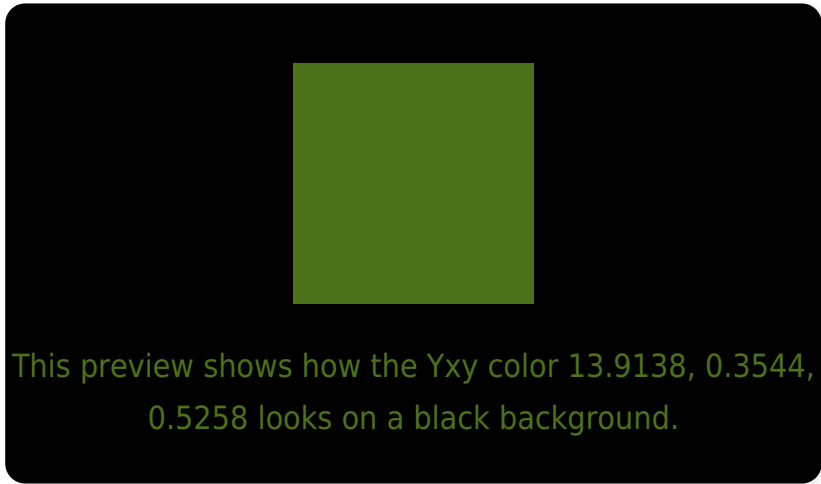
Any Text WCAG AA ✓ Pass

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

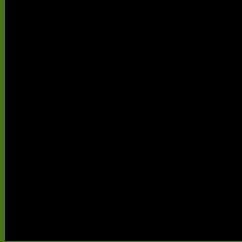
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 13.9138, 0.3544, 0.5258**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.9138, 0.3544, 0.5258.



This preview shows how white text looks on a background with the Yxy color 13.9138, 0.3544, 0.5258.

# 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

13.9138, 0.3544, 0.5258

### Protanopia

13.7444, 0.4291, 0.4741

### Deuteranopia

13.7793, 0.4485, 0.4433



## Tritanopia

13.8511, 0.2774, 0.3090

# Trichromacy



## Original Color

13.9138, 0.3544, 0.5258

## Protanomaly

13.6159, 0.3997, 0.4945

## Deuteranomaly

13.5764, 0.4134, 0.4740

## Tritanomaly

13.6612, 0.3110, 0.3936

# Monochromacy



## Original Color

13.9138, 0.3544, 0.5258

## Achromatopsia

10.9462, 0.3127, 0.3290

## Achromatomaly

11.7633, 0.3352, 0.4083

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.9138, 0.3544, 0.5258 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(77, 115, 26)` looks like.

```
.text, #text, p{  
    color:rgb(77, 115, 26)  
}
```

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(77, 115, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 115, 26) }
```

## Border

The CSS property to change the border of an element to Yxy 13.9138, 0.3544, 0.5258 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(77, 115, 26) }
```

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

```
.border{ border-color:rgb(77, 115, 26) }
```

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

Here you see how a box with a 4 pixel rgb(77, 115, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 115, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 115, 26);  
box-shadow:4px 4px 4px 4px rgb(77, 115,  
26) }
```



# Background

The CSS property to change the background color of an element to Yxy 13.9138, 0.3544, 0.5258 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 115, 26) }
```

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

```
.background{ background-color: rgb(77, 115,  
26) }
```

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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