

# Converting Colors

$Y_{xy}(13.7662, 0.3642, 0.5490)$

Have a look what the booklet for  
Yxy(13.7662, 0.3642, 0.5490)  
contains.

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**Color**

**Yxy(13.8392, 0.3645, 0.5488)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4D7300
RGB	77, 115, 0
RGB Percent	30%, 45%, 0%
CMY	0.6980, 0.5490, 1.0000
CMYK	0.33, 0.00, 1.00, 0.55
HSL	80°, 100%, 23%
HSV	80°, 100%, 45%
XYZ	9.1917, 13.8392, 2.1863
YIQ	90.5280, 14.2670, -43.8210

# Conversions

## Conversions Part 2

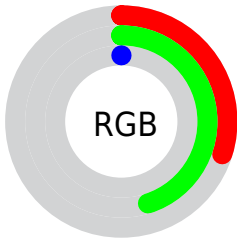
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 115, 38
Decimal	5075712
CIELab	44.00, -29.12, 49.09
CIELCh	44, 57.079, 120.679
Yxy	13.8392, 0.3645, 0.5488
Android (android.graphics.Color)	4283265792 (0xFF4D7300)
YUV	90.5280, -44.6303, -11.8641
Hunter-Lab	37.2011, -20.9980, 22.5562

# Details

The Yxy color **13.8392, 0.3645, 0.5488** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **1.6498, 0.1780, 0.0754**, and the grayscale version is **10.4504, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.7202, 0.3613, 0.4953**, and **4.1031, 0.3299, 0.5762** is the 20% darker color. If you saturate the color by 10%, you get **13.8398, 0.3645, 0.5488**, and if you desaturate by 10%, it is **14.0279, 0.3662, 0.5368**.

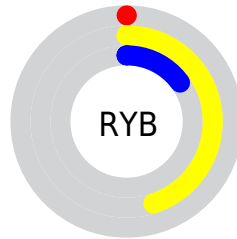
# Distribution



Red (30%)

Green (45%)

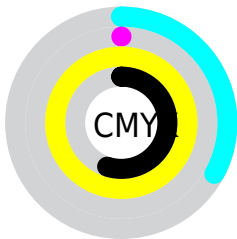
Blue (0%)



Red (0%)

Yellow (45%)

Blue (15%)

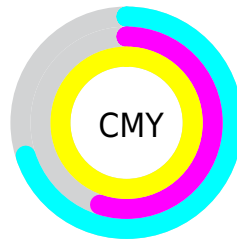


Cyan (33%)

Magenta (0%)

Yellow (100%)

Black (55%)



Cyan (70%)

Magenta (55%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.8392, 0.3645, 0.5488 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 13.8392, 0.3645, 0.5488 by changing the saturation by 10% instead.





 13.8392, 0.3645,  
0.5488


 13.8392, 0.3645,  
0.5488


216.2282, 0.3439,  
0.4155


 8.0089, 0.3621,  
0.5889


 32.8034, 0.3610,  
0.4950


 4.1007, 0.3530,  
0.6470

 46.7062, 0.3581,  
0.4762


 1.7300, 0.3059,  
0.6941

 64.0685, 0.3552,  
0.4610

 0.4430, 0.0000,  
1.0000


 85.2749, 0.3525,  
0.4486


 0.0000, 0.0000,  
0.0000


 110.7096, 0.3500,  
0.4382


 140.7572, 0.3478,

0.4295

 175.8019, 0.3458,  
0.4220

 13.8392, 0.3645,  
0.5488

 13.8392, 0.3645,  
0.5488


 13.8398, 0.3645,  
0.5488

 14.0279, 0.3662,  
0.5368

 14.2365, 0.3666,  
0.5222

 14.4747, 0.3648,  
0.5033

 14.7449, 0.3608,  
0.4811

 15.0492, 0.3550,  
0.4563

■ 15.3896, 0.3477,  
0.4302

■ 15.7677, 0.3395,  
0.4037

■ 16.1853, 0.3307,  
0.3776

■ 16.6437, 0.3217,  
0.3526

# Harmonies

## Analogous

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



13.8392, 0.4620, 0.4899



13.8392, 0.3645, 0.5488



13.8392, 0.2602, 0.5198

# Triad

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



13.8392, 0.3645, 0.5488



13.8392, 0.1294, 0.1919



13.8392, 0.4554, 0.2634

# Complementary

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



13.8392, 0.3645, 0.5488



1.6498, 0.1780, 0.0754

# 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.



13.8392, 0.3328, 0.2065



13.8392, 0.3645, 0.5488



13.8392, 0.1590, 0.1659

# Square

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



13.8392, 0.3645, 0.5488



13.8392, 0.1331, 0.2634



13.8392, 0.2257, 0.1724



13.8392, 0.5328, 0.3328



# Rectangle

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



13.8392, 0.3645, 0.5488



13.8392, 0.1998, 0.4391



13.8392, 0.2257, 0.1724



13.8392, 0.4162, 0.2425

# Sweetspot

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



13.8398, 0.3645, 0.5488



28.1787, 0.3402, 0.4058



4.9321, 0.5848, 0.3739



6.6670, 0.3430, 0.4146



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.



13.8398, 0.3645, 0.5488



24.7086, 0.3631, 0.5499



12.4221, 0.3079, 0.5937



4.2086, 0.3208, 0.3503



15.8096, 0.3641, 0.5491



76.5615, 0.3613, 0.5514



# Inverse Universe

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



1.6498, 0.1780, 0.0754



2.8872, 0.1756, 0.0741



3.6132, 0.2768, 0.1298



3.6432, 0.3041, 0.3074



1.8750, 0.1774, 0.0751



8.7150, 0.1724, 0.0724



# Previews

## White Background



This preview shows how the Yxy color 13.8392, 0.3645, 0.5488 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 13.8392, 0.3645, 0.5488 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

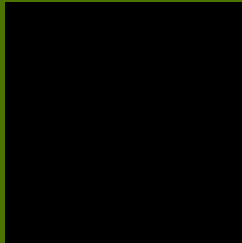
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 13.8392, 0.3645, 0.5488**

## Background



This preview shows how black text looks on a background with the Yxy color 13.8392, 0.3645, 0.5488.



This preview shows how white text looks on a background with the Yxy color 13.8392, 0.3645, 0.5488.

# 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

13.8392, 0.3645, 0.5488

### Protanopia

13.6825, 0.4394, 0.4893

### Deuteranopia

13.6186, 0.4602, 0.4517



## Tritanopia

13.8770, 0.2797, 0.3112

# Trichromacy



## Original Color

13.8392, 0.3645, 0.5488

## Protanomaly

13.5499, 0.4101, 0.5126

## Deuteranomaly

13.3118, 0.4248, 0.4881

## Tritanomaly

13.5642, 0.3243, 0.4179

# Monochromacy



## Original Color

13.8392, 0.3645, 0.5488

## Achromatopsia

10.4616, 0.3127, 0.3290

## Achromatomaly

11.3983, 0.3485, 0.4338

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.8392, 0.3645, 0.5488 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, 0)` looks like.

```
.text, #text, p{  
    color:rgb(77, 115, 0)  
}
```

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, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 115, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 13.8392, 0.3645, 0.5488 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, 0) }
```

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

```
.border{ border-color:rgb(77, 115, 0) }
```

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, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 115, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 115, 0);  
box-shadow:4px 4px 4px 4px rgb(77, 115, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 13.8392, 0.3645, 0.5488 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, 0) }
```

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

```
.background{ background-color: rgb(77, 115,  
0) }
```

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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