

# Converting Colors

$Y_{xy}(46.3294, 0.3617, 0.4592)$

Have a look what the booklet for  
Yxy(46.3294, 0.3617, 0.4592)  
contains.

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# Color

**Yxy(46.2131, 0.3620, 0.4587)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6BF60
RGB	166, 191, 96
RGB Percent	65%, 75%, 38%
CMY	0.3489, 0.2510, 0.6235
CMYK	0.13, 0.00, 0.50, 0.25
HSL	76°, 43%, 56%
HSV	76°, 50%, 75%
XYZ	36.4708, 46.2131, 18.0641
YIQ	172.6950, 15.5950, -34.8450

# Conversions

## Conversions Part 2

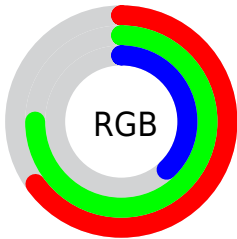
<b>Format</b>	<b>Color</b>
<b>RYB</b>	96, 191, 121
Decimal	10927968
CIELab	73.68, -23.23, 44.73
CIELCh	74, 50.405, 117.448
Yxy	46.2131, 0.3620, 0.4587
Android (android.graphics.Color)	4289118048 (0xFFA6BF60)
YUV	172.6950, -37.8106, -5.8715
Hunter-Lab	67.9802, -23.2018, 31.8313

# Details

The Yxy color **46.2131, 0.3620, 0.4587** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **16.1917, 0.2414, 0.1820**, and the grayscale version is **41.8184, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.3794, 0.3552, 0.4337**, and **21.8112, 0.3701, 0.4969** is the 20% darker color. If you saturate the color by 10%, you get **45.3727, 0.3689, 0.4828**, and if you desaturate by 10%, it is **47.1643, 0.3535, 0.4326**.

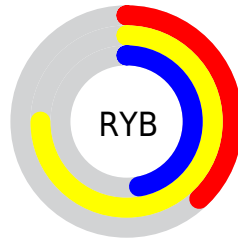
# Distribution



Red (65%)

Green (75%)

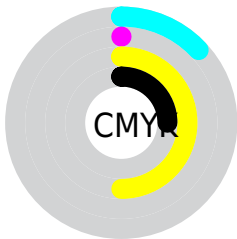
Blue (38%)



Red (38%)

Yellow (75%)

Blue (47%)

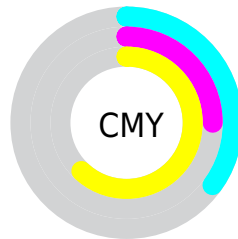


Cyan (13%)

Magenta (0%)

Yellow (50%)

Black (25%)



Cyan (35%)

Magenta (25%)


Yellow (62%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.2131, 0.3620, 0.4587 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 46.2131, 0.3620, 0.4587 by changing the saturation by 10% instead.




 46.2131, 0.3620,  
0.4587


 46.2131, 0.3620,  
0.4587


371.6647, 0.3403,  
0.3922

 32.4140, 0.3661,  
0.4752


 84.5378, 0.3550,  
0.4345

 21.6779, 0.3703,  
0.4961


 109.8323, 0.3521,  
0.4254

 13.6204, 0.3742,  
0.5230


 139.7273, 0.3495,  
0.4177

 7.8572, 0.3758,  
0.5580

 174.6072, 0.3472,  
0.4111

 4.0037, 0.3802,  
0.6198

214.8566, 0.3452,  
0.4054

 1.6756, 0.3425,  
0.6575

260.8597, 0.3434,

 0.4078, 0.0000,

0.4005

1.0000

313.0009, 0.3417,  
0.3961

■ 0.0000, 0.0000,  
0.0000

■ 46.2131, 0.3620,  
0.4587

■ 46.2131, 0.3620,  
0.4587

■ 45.3727, 0.3689,  
0.4828

■ 47.1643, 0.3535,  
0.4326

■ 44.6303, 0.3736,  
0.5039

■ 48.2261, 0.3438,  
0.4057

■ 43.9806, 0.3760,  
0.5209


■ 49.4058, 0.3334,  
0.3789


■ 43.4150, 0.3758,  
0.5332

■ 50.7085, 0.3229,  
0.3529


■ 42.9170, 0.3735,  
0.5415


■ 52.1390, 0.3124,  
0.3284

 42.9044, 0.3734,  
0.5417

 53.7015, 0.3023,  
0.3055

 55.4004, 0.2927,  
0.2845

 57.2395, 0.2837,  
0.2653

 58.3637, 0.2833,  
0.2600

# Harmonies

## Analogous

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



46.2131, 0.4203, 0.4346



46.2131, 0.3620, 0.4587



46.2131, 0.2939, 0.4384

# Triad

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



46.2131, 0.3620, 0.4587



46.2131, 0.1901, 0.2488



46.2131, 0.3911, 0.2850

# Complementary

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



46.2131, 0.3620, 0.4587



16.1917, 0.2414, 0.1820

# 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.



46.2131, 0.3195, 0.2458



46.2131, 0.3620, 0.4587



46.2131, 0.2089, 0.2237

# Square

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



46.2131, 0.3620, 0.4587



46.2131, 0.1983, 0.3017



46.2131, 0.2536, 0.2239



46.2131, 0.4418, 0.3347



# Rectangle

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



46.2131, 0.3620, 0.4587



46.2131, 0.2522, 0.3992



46.2131, 0.2536, 0.2239



46.2131, 0.3681, 0.2704

# Sweetspot

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



46.2152, 0.3620, 0.4587



89.5080, 0.3287, 0.3671



25.2943, 0.4331, 0.3617



19.5475, 0.3310, 0.3726



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46.2152, 0.3620, 0.4587



81.0920, 0.3696, 0.4856



42.0816, 0.3225, 0.4770



10.9909, 0.3225, 0.3519



28.2368, 0.3741, 0.5412



1.1361, 0.3854, 0.5322



# Inverse Universe

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



16.1917, 0.2414, 0.1820



21.0500, 0.2214, 0.1467



20.3706, 0.2911, 0.2005



9.3434, 0.3024, 0.3056



2.9554, 0.1668, 0.0693



0.1488, 0.1936, 0.0840



# Previews

## White Background



This preview shows how the Yxy color 46.2131, 0.3620, 0.4587 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.2131, 0.3620, 0.4587 looks on a black 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 ✓ Pass

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

**Yxy 46.2131, 0.3620, 0.4587**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.2131, 0.3620, 0.4587.



This preview shows how white text looks on a background with the Yxy color 46.2131, 0.3620, 0.4587.

# 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

46.2131, 0.3620, 0.4587

### Protanopia

45.9802, 0.4003, 0.4377

### Deuteranopia

45.8168, 0.4211, 0.4112



## Tritanopia

46.0025, 0.3001, 0.3108

# Trichromacy



## Original Color

46.2131, 0.3620, 0.4587

## Protanomaly

46.0709, 0.3858, 0.4459

## Deuteranomaly

45.5586, 0.3991, 0.4283

## Tritanomaly

45.7483, 0.3247, 0.3644

# Monochromacy



## Original Color

46.2131, 0.3620, 0.4587

## Achromatopsia

41.7885, 0.3127, 0.3290

## Achromatomaly

43.2329, 0.3323, 0.3780

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.2131, 0.3620, 0.4587 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(166, 191, 96)` looks like.

```
.text, #text, p{  
    color:rgb(166, 191, 96)  
}
```

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(166, 191, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 191, 96) }
```

## Border

The CSS property to change the border of an element to Yxy 46.2131, 0.3620, 0.4587 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(166, 191, 96) }
```

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

```
.border{ border-color:rgb(166, 191, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 191, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 191, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 191, 96);  
box-shadow:4px 4px 4px 4px rgb(166, 191,  
96) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.2131, 0.3620, 0.4587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 191, 96) }
```

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

```
.background{ background-color: rgb(166,  
191, 96) }
```

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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