

# Converting Colors

$Yxy(64.7475, 0.3624, 0.5012)$

Have a look what the booklet for  
Yxy(64.7475, 0.3624, 0.5012)  
contains.

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# Color

**Yxy(64.7475, 0.3624, 0.5012)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | B0E350                      |
| RGB         | 176, 227, 80                |
| RGB Percent | 69%, 89%, 31%               |
| CMY         | 0.3099, 0.1098, 0.6862      |
| CMYK        | 0.22, 0.00, 0.65, 0.11      |
| HSL         | 81°, 72%, 60%               |
| HSV         | 81°, 65%, 89%               |
| XYZ         | 46.8166, 64.7475, 17.6208   |
| YIQ         | 194.9930, 16.7910, -56.5290 |

# Conversions

## Conversions Part 2

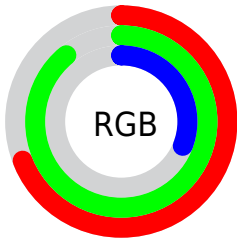
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>RYB</b>                          | 80, 227, 131                    |
| Decimal                             | 11592528                        |
| CIELab                              | 84.35, -37.69, 64.03            |
| CIELCh                              | 84, 74.300, 120.478             |
| Yxy                                 | 64.7475, 0.3624,<br>0.5012      |
| Android<br>(android.graphics.Color) | 4289782608<br>(0xFFB0E350)      |
| YUV                                 | 194.9930, -56.6915,<br>-16.6569 |
| Hunter-Lab                          | 80.4658, -36.9603,<br>43.3424   |

# Details

The Yxy color **64.7475, 0.3624, 0.5012** is a light color, and the websafe version is hex **99CC33**. The color can be described as light muted chartreuse. A complement of this color would be **16.1154, 0.2238, 0.1382**, and the grayscale version is **54.9044, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.7617, 0.3678, 0.4507**, and **33.0768, 0.3652, 0.5430** is the 20% darker color. If you saturate the color by 10%, you get **63.5774, 0.3644, 0.5220**, and if you desaturate by 10%, it is **66.0901, 0.3581, 0.4768**.

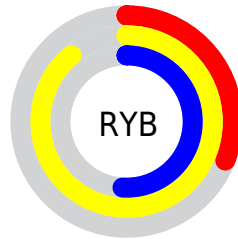
# Distribution



Red (69%)

Green (89%)

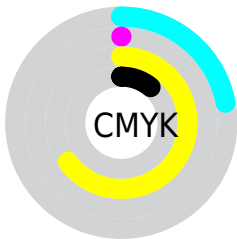
Blue (31%)



Red (31%)

Yellow (89%)

Blue (51%)

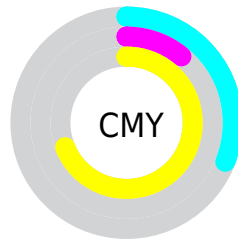


Cyan (22%)

Magenta (0%)

Yellow (65%)

Black (11%)



Cyan (31%)

Magenta (11%)

Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.7475, 0.3624, 0.5012 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 64.7475, 0.3624, 0.5012 by changing the saturation by 10% instead.





 64.7475, 0.3624,  
0.5012

 64.7475, 0.3624,  
0.5012


441.8840, 0.3449,  
0.4179


 47.2564, 0.3643,  
0.5201

 111.6868, 0.3579,  
0.4722

 33.2384, 0.3652,  
0.5429


 141.9037, 0.3557,  
0.4609


 22.3091, 0.3642,  
0.5705


 177.1313, 0.3535,  
0.4511

 14.0842, 0.3589,  
0.6038

 217.7541, 0.3515,  
0.4427

 8.1793, 0.3491,  
0.6509

 264.1563, 0.3497,  
0.4353

 4.2099, 0.3136,  
0.6864

316.7225, 0.3480,

 1.7916, 0.2478,

0.4288

0.7522

375.8369, 0.3464,  
0.4230

0.4820, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

64.7475, 0.3624,  
0.5012

64.7475, 0.3624,  
0.5012

63.5774, 0.3644,  
0.5220

66.0901, 0.3581,  
0.4768

62.5582, 0.3639,  
0.5380

67.6076, 0.3518,  
0.4499

61.6773, 0.3609,  
0.5490


69.3129, 0.3441,  
0.4218


61.2578, 0.3588,  
0.5533


71.2152, 0.3355,  
0.3937

 73.3228, 0.3263,  
0.3665

 75.6437, 0.3171,  
0.3407

 78.1851, 0.3080,  
0.3167

 80.5203, 0.3033,  
0.3010

 81.9226, 0.3085,  
0.3014

# Harmonies

## Analogous

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



64.7475, 0.4405, 0.4654



64.7475, 0.3624, 0.5012



64.7475, 0.2761, 0.4721

# Triad

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



64.7475, 0.3624, 0.5012



64.7475, 0.1602, 0.2197



64.7475, 0.4240, 0.2773

# Complementary

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



64.7475, 0.3624, 0.5012



16.1154, 0.2238, 0.1382

# Split Complementary

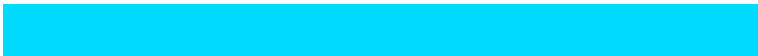
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



64.7475, 0.3296, 0.2283



64.7475, 0.3624, 0.5012



64.7475, 0.1859, 0.1948

# Square

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



64.7475, 0.3624, 0.5012



64.7475, 0.1654, 0.2814



64.7475, 0.2432, 0.1991



64.7475, 0.4860, 0.3379



# Rectangle

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



64.7475, 0.3624, 0.5012



64.7475, 0.2253, 0.4136



64.7475, 0.2432, 0.1991



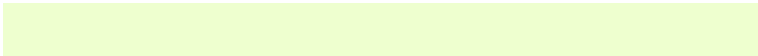
64.7475, 0.3940, 0.2592

# Sweetspot

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



64.7504, 0.3624, 0.5012



94.2108, 0.3304, 0.3782



32.6158, 0.4803, 0.3823



19.9973, 0.3330, 0.3861



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



64.7504, 0.3624, 0.5012



82.2376, 0.3645, 0.5286



58.4977, 0.3147, 0.5306



16.5536, 0.3214, 0.3526



35.7888, 0.3597, 0.5526



2.6958, 0.3685, 0.5456



# Inverse Universe

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



16.1154, 0.2238, 0.1382



14.4304, 0.2021, 0.1043



23.9138, 0.2939, 0.1705



14.1293, 0.3034, 0.3051



4.2580, 0.1767, 0.0747



0.3648, 0.1928, 0.0836



# Previews

## White Background



This preview shows how the Yxy color 64.7475, 0.3624, 0.5012 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 64.7475, 0.3624, 0.5012 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 64.7475, 0.3624, 0.5012**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.7475, 0.3624, 0.5012.

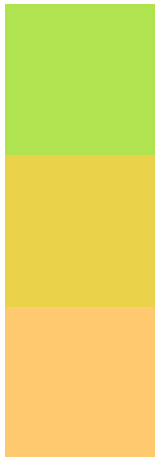


This preview shows how white text looks on a background with the Yxy color 64.7475, 0.3624, 0.5012.

# 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

64.7475, 0.3624, 0.5012

### Protanopia

64.0936, 0.4212, 0.4634

### Deuteranopia

64.2031, 0.4237, 0.4181



## Tritanopia

64.2134, 0.2888, 0.3094

# Trichromacy



## Original Color

64.7475, 0.3624, 0.5012

## Protanomaly

63.7937, 0.3991, 0.4773

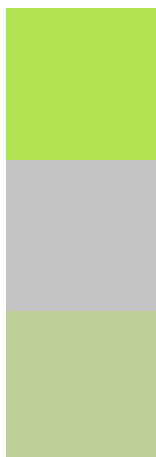
## Deuteranomaly

63.1820, 0.4018, 0.4476

## Tritanomaly

63.2856, 0.3190, 0.3805

# Monochromacy



## Original Color

64.7475, 0.3624, 0.5012

## Achromatopsia

54.5724, 0.3127, 0.3290

## Achromatomaly

57.6169, 0.3363, 0.3971

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.7475, 0.3624, 0.5012 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(176, 227, 80)` looks like.

```
.text, #text, p{  
    color:rgb(176, 227, 80)  
}
```

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(176, 227, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 227, 80) }
```

## Border

The CSS property to change the border of an element to Yxy 64.7475, 0.3624, 0.5012 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(176, 227, 80) }
```

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

```
.border{ border-color:rgb(176, 227, 80) }
```

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

Here you see how a box with a 4 pixel rgb(176, 227, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 227, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 227, 80);  
box-shadow:4px 4px 4px 4px rgb(176, 227,  
80) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.7475, 0.3624, 0.5012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 227, 80) }
```

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

```
.background{ background-color: rgb(176,  
227, 80) }
```

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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