

# Converting Colors

$Yxy(45.4101, 0.3129, 0.4627)$

Have a look what the booklet for  
Yxy(45.4101, 0.3129, 0.4627)  
contains.

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# Color

**Yxy(45.5070, 0.3133, 0.4635)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78C66E
RGB	120, 198, 110
RGB Percent	47%, 78%, 43%
CMY	0.5292, 0.2235, 0.5686
CMYK	0.39, 0.00, 0.44, 0.22
HSL	113°, 44%, 60%
HSV	113°, 44%, 78%
XYZ	30.7602, 45.5070, 21.9141
YIQ	164.6460, -18.2400, -43.9040

# Conversions

## Conversions Part 2

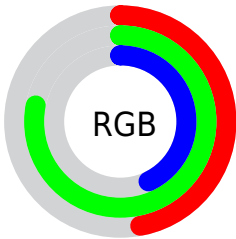
<b>Format</b>	<b>Color</b>
<b>RYB</b>	110, 198, 188
Decimal	7915118
CIELab	73.22, -41.30, 36.63
CIELCh	73, 55.206, 138.433
Yxy	45.5070, 0.3133, 0.4635
Android (android.graphics.Color)	4286105198 (0xFF78C66E)
YUV	164.6460, -26.9405, -39.1545
Hunter-Lab	67.4589, -36.6599, 27.9608

# Details

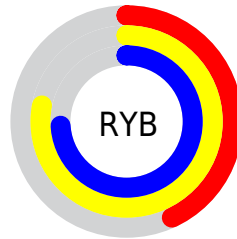
The Yxy color **45.5070, 0.3133, 0.4635** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **25.9126, 0.3069, 0.2179**, and the grayscale version is **37.5933, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.3945, 0.3152, 0.4361**, and **21.0950, 0.3082, 0.5073** is the 20% darker color. If you saturate the color by 10%, you get **43.9829, 0.3123, 0.4980**, and if you desaturate by 10%, it is **47.3610, 0.3138, 0.4292**.

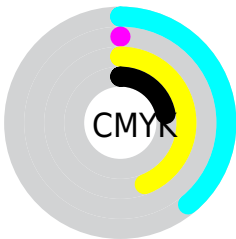
# Distribution



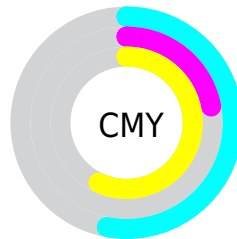
- Red (47%)
- Green (78%)
- Blue (43%)



- Red (43%)
- Yellow (78%)
- Blue (74%)



- Cyan (39%)
- Magenta (0%)
- Yellow (44%)
- Black (22%)




- Cyan (53%)
- Magenta (22%)
- Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.5070, 0.3133, 0.4635 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 45.5070, 0.3133, 0.4635 by changing the saturation by 10% instead.





 45.5070, 0.3133,  
0.4635


 45.5070, 0.3133,  
0.4635

368.8231, 0.3159,  
0.3919

 31.8570, 0.3115,  
0.4825


 83.4807, 0.3150,  
0.4366

 21.2523, 0.3085,  
0.5075


 108.5731, 0.3154,  
0.4267

 13.3085, 0.3031,  
0.5415


 138.2485, 0.3157,  
0.4185

 7.6413, 0.2926,  
0.5895

 172.8912, 0.3158,  
0.4115

 3.8663, 0.2787,  
0.6794

212.8856, 0.3159,  
0.4056

 1.5991, 0.1933,  
0.8067

258.6161, 0.3159,

 0.3570, 0.0000,

0.4004

1.0000

310.4671, 0.3159,  
0.3959

0.0000, 0.0000,  
0.0000

45.5070, 0.3133,  
0.4635

45.5070, 0.3133,  
0.4635

43.9829, 0.3123,  
0.4980

47.3610, 0.3138,  
0.4292

42.7638, 0.3108,  
0.5305

49.5566, 0.3138,  
0.3966

41.8306, 0.3088,  
0.5585

52.1119, 0.3135,  
0.3667


41.1596, 0.3064,  
0.5798


55.0422, 0.3130,  
0.3399

40.7232, 0.3038,  
0.5931

58.3617, 0.3123,  
0.3162

 40.5637, 0.3027,  
0.5979

 62.0840, 0.3116,  
0.2956

 66.2220, 0.3108,  
0.2776

 68.8659, 0.3153,  
0.2732

# Harmonies

## Analogous

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



45.5070, 0.3865, 0.4675



45.5070, 0.3133, 0.4635



45.5070, 0.2439, 0.4043

# Triad

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



45.5070, 0.3133, 0.4635



45.5070, 0.1910, 0.2193



45.5070, 0.4422, 0.3172

# Complementary

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



45.5070, 0.3133, 0.4635



25.9126, 0.3069, 0.2179

# 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.



45.5070, 0.3760, 0.2665



45.5070, 0.3133, 0.4635



45.5070, 0.2306, 0.2124

# Square

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



45.5070, 0.3133, 0.4635



45.5070, 0.1793, 0.2547



45.5070, 0.2962, 0.2295



45.5070, 0.4668, 0.3738

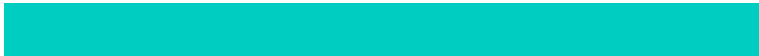


# Rectangle

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



45.5070, 0.3133, 0.4635



45.5070, 0.2092, 0.3484



45.5070, 0.2962, 0.2295



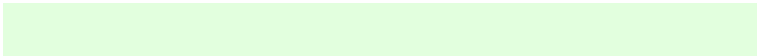
45.5070, 0.4236, 0.2993

# Sweetspot

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



45.5089, 0.3133, 0.4635



92.8963, 0.3135, 0.3632



48.9817, 0.3832, 0.4263



19.6505, 0.3136, 0.3695



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.



45.5089, 0.3133, 0.4635



78.0480, 0.3124, 0.4958



45.7064, 0.2856, 0.4126



11.9449, 0.3133, 0.3527



26.4004, 0.3031, 0.5975



1.2700, 0.3126, 0.5900



# Inverse Universe

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



25.9126, 0.3069, 0.2179



39.0641, 0.3049, 0.1967



25.8471, 0.3566, 0.2590



10.7527, 0.3120, 0.3061



8.6302, 0.2925, 0.1385



0.4266, 0.2988, 0.1420



# Previews

## White Background



This preview shows how the Yxy color 45.5070, 0.3133, 0.4635 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 45.5070, 0.3133, 0.4635 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

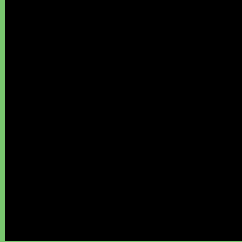
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.5070, 0.3133, 0.4635**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.5070, 0.3133, 0.4635.



This preview shows how white text looks on a background with the Yxy color 45.5070, 0.3133, 0.4635.

# 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

45.5070, 0.3133, 0.4635

### Protanopia

44.9552, 0.3913, 0.4256

### Deuteranopia

44.8338, 0.4036, 0.3956



## Tritanopia

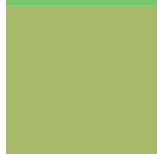
45.1233, 0.2646, 0.3082

# Trichromacy



## Original Color

45.5070, 0.3133, 0.4635



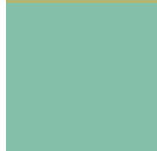
## Protanomaly

44.4832, 0.3591, 0.4400



## Deuteranomaly

43.9660, 0.3665, 0.4198



## Tritanomaly

44.9515, 0.2824, 0.3612

# Monochromacy



## Original Color

45.5070, 0.3133, 0.4635



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

39.8782, 0.3139, 0.3768

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  45.5070, 0.3133, 0.4635 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(120, 198, 110)` looks like.

```
.text, #text, p{  
    color:rgb(120, 198, 110)  
}
```

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(120, 198, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 198, 110) }
```

## Border

The CSS property to change the border of an element to Yxy 45.5070, 0.3133, 0.4635 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(120, 198, 110) }
```

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

```
.border{ border-color:rgb(120, 198, 110) }
```

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

Here you see how a box with a 4 pixel rgb(120, 198, 110) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 198, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 198, 110);  
box-shadow:4px 4px 4px 4px rgb(120, 198,  
110) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.5070, 0.3133, 0.4635 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 198, 110) }
```

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

```
.background{ background-color: rgb(120,  
198, 110) }
```

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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