

# Converting Colors

$Y_{xy}(55.8258, 0.3257, 0.5107)$

Have a look what the booklet for  
Yxy(55.8258, 0.3257, 0.5107)  
contains.

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# Color

**Yxy(55.7111, 0.3254, 0.5106)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7DDB57
RGB	125, 219, 87
RGB Percent	49%, 86%, 34%
CMY	0.5100, 0.1411, 0.6589
CMYK	0.43, 0.00, 0.60, 0.14
HSL	103°, 65%, 60%
HSV	103°, 60%, 86%
XYZ	35.5041, 55.7111, 17.8939
YIQ	175.8460, -13.6520, -60.9800

# Conversions

## Conversions Part 2

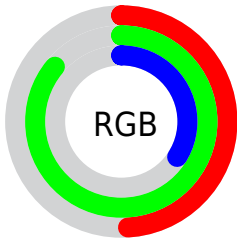
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 219, 181
Decimal	8248151
CIELab	79.45, -51.32, 55.02
CIELCh	79, 75.240, 133.011
Yxy	55.7111, 0.3254, 0.5106
Android (android.graphics.Color)	4286438231 (0xFF7DDB57)
YUV	175.8460, -43.8011, -44.5919
Hunter-Lab	74.6399, -45.7123, 38.0339

# Details

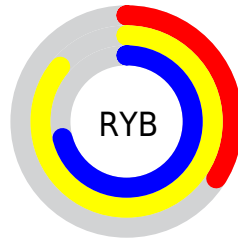
The Yxy color **55.7111, 0.3254, 0.5106** is a dark color, and the websafe version is hex **66CC33**. The color can be described as middle muted chartreuse. A complement of this color would be **21.7559, 0.2790, 0.1721**, and the grayscale version is **43.5648, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.5104, 0.3306, 0.4595**, and **27.4516, 0.3194, 0.5623** is the 20% darker color. If you saturate the color by 10%, you get **54.3253, 0.3240, 0.5392**, and if you desaturate by 10%, it is **57.3946, 0.3254, 0.4789**.

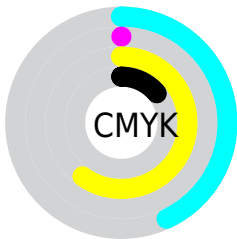
# Distribution



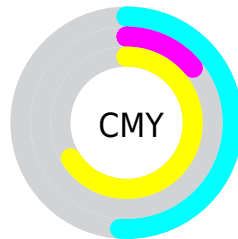
- Red (49%)
- Green (86%)
- Blue (34%)



- Red (34%)
- Yellow (86%)
- Blue (71%)



- Cyan (43%)
- Magenta (0%)
- Yellow (60%)
- Black (14%)




- Cyan (51%)
- Magenta (14%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.7111, 0.3254, 0.5106 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 55.7111, 0.3254, 0.5106 by changing the saturation by 10% instead.





 55.7111, 0.3254,  
0.5106

 55.7111, 0.3254,  
0.5106


408.6018, 0.3250,  
0.4172

 39.9713, 0.3234,  
0.5337


 98.5820, 0.3268,  
0.4766


 27.5162, 0.3195,  
0.5628


 126.4820, 0.3268,  
0.4638

 17.9613, 0.3122,  
0.5999


 159.2042, 0.3267,  
0.4530

 10.9222, 0.2982,  
0.6479

 197.1330, 0.3264,  
0.4437

 6.0145, 0.2764,  
0.7236

240.6527, 0.3261,  
0.4358

 2.8539, 0.2176,  
0.7824

290.1479, 0.3257,

 1.0560, 0.0000,

0.4288

1.0000

346.0028, 0.3254,  
0.4227

0.0000, 0.0000,  
0.0000

55.7111, 0.3254,  
0.5106

55.7111, 0.3254,  
0.5106

54.3253, 0.3240,  
0.5392

57.3946, 0.3254,  
0.4789

53.2113, 0.3212,  
0.5628

59.3856, 0.3242,  
0.4461

52.3502, 0.3170,  
0.5798


61.7021, 0.3221,  
0.4138


51.7255, 0.3124,  
0.5901

64.3584, 0.3193,  
0.3833

67.3681, 0.3161,  
0.3551

 70.7439, 0.3128,  
0.3297

 74.4980, 0.3094,  
0.3070

 78.1701, 0.3107,  
0.2936

 79.1487, 0.3144,  
0.2940

# Harmonies

## Analogous

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



55.7111, 0.4141, 0.4942



55.7111, 0.3254, 0.5106



55.7111, 0.2381, 0.4460

# Triad

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



55.7111, 0.3254, 0.5106



55.7111, 0.1600, 0.1985



55.7111, 0.4653, 0.2994

# Complementary

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



55.7111, 0.3254, 0.5106



21.7559, 0.2790, 0.1721

# 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.



55.7111, 0.3735, 0.2423



55.7111, 0.3254, 0.5106



55.7111, 0.2001, 0.1865

# Square

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



55.7111, 0.3254, 0.5106



55.7111, 0.1516, 0.2453



55.7111, 0.2738, 0.2025



55.7111, 0.5055, 0.3650



# Rectangle

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



55.7111, 0.3254, 0.5106



55.7111, 0.1931, 0.3720



55.7111, 0.2738, 0.2025



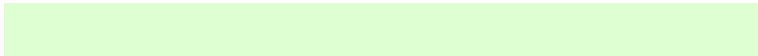
55.7111, 0.4386, 0.2790

# Sweetspot

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



55.7135, 0.3254, 0.5106



91.7059, 0.3187, 0.3771



48.1511, 0.4242, 0.4334



19.3758, 0.3195, 0.3857



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.



55.7135, 0.3254, 0.5106



76.2811, 0.3235, 0.5452



53.8950, 0.2917, 0.4873



14.7867, 0.3159, 0.3529



30.7158, 0.3133, 0.5894



2.0333, 0.3256, 0.5797



# Inverse Universe

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



21.7559, 0.2790, 0.1721



24.3602, 0.2694, 0.1467



25.7077, 0.3492, 0.2127



13.0769, 0.3092, 0.3056



7.2821, 0.2495, 0.1148



0.5148, 0.2616, 0.1215



# Previews

## White Background



This preview shows how the Yxy color 55.7111, 0.3254, 0.5106 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 55.7111, 0.3254, 0.5106 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 55.7111, 0.3254, 0.5106**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.7111, 0.3254, 0.5106.

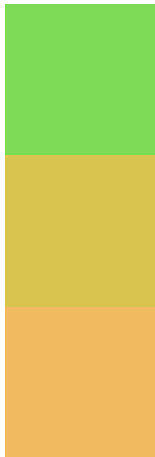


This preview shows how white text looks on a background with the Yxy color 55.7111, 0.3254, 0.5106.

# 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

55.7111, 0.3254, 0.5106

### Protanopia

54.9645, 0.4154, 0.4557

### Deuteranopia

54.6631, 0.4328, 0.4228



## Tritanopia

55.2325, 0.2628, 0.3073

# Trichromacy



## Original Color

55.7111, 0.3254, 0.5106



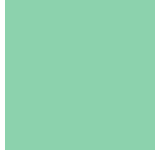
## Protanomaly

54.0006, 0.3789, 0.4768



## Deuteranomaly

53.3206, 0.3899, 0.4546



## Tritanomaly

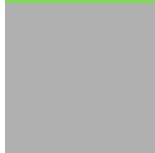
54.6858, 0.2875, 0.3798

# Monochromacy



## Original Color

55.7111, 0.3254, 0.5106



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

46.8810, 0.3199, 0.3969

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  55.7111, 0.3254, 0.5106 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(125, 219, 87)` looks like.

```
.text, #text, p{  
    color:rgb(125, 219, 87)  
}
```

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(125, 219, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(125, 219, 87) }
```

## Border

The CSS property to change the border of an element to Yxy 55.7111, 0.3254, 0.5106 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(125, 219, 87) }
```

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

```
.border{ border-color:rgb(125, 219, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(125, 219, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(125, 219, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(125, 219, 87);  
box-shadow:4px 4px 4px 4px rgb(125, 219,  
87) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.7111, 0.3254, 0.5106 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(125, 219, 87) }
```

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

```
.background{ background-color: rgb(125,  
219, 87) }
```

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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