

# Converting Colors

$Y_{xy}(55.7972, 0.3440, 0.4769)$

Have a look what the booklet for  
Yxy(55.7972, 0.3440, 0.4769)  
contains.

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# Color

**Yxy(55.7972, 0.3440, 0.4769)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9ED565
RGB	158, 213, 101
RGB Percent	62%, 84%, 40%
CMY	0.3803, 0.1647, 0.6040
CMYK	0.26, 0.00, 0.53, 0.16
HSL	89°, 57%, 62%
HSV	89°, 53%, 84%
XYZ	40.2479, 55.7972, 20.9547
YIQ	183.7870, 3.1720, -46.4920

# Conversions

## Conversions Part 2

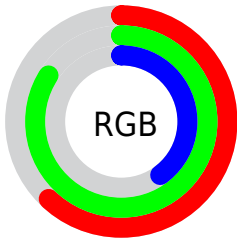
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">101, 213, 156</a>
Decimal	<a href="#">10409317</a>
CIELab	<a href="#">79.50, -36.16, 49.18</a>
CIElCh	<a href="#">79, 61.046, 126.327</a>
Yxy	<a href="#">55.7972, 0.3440, 0.4769</a>
Android (android.graphics.Color)	<a href="#">4288599397 (0xFF9ED565)</a>
YUV	<a href="#">183.7870, -40.8140, -22.6152</a>
Hunter-Lab	<a href="#">74.6975, -34.5427, 35.6558</a>

# Details

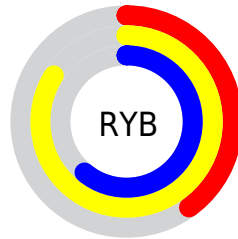
The Yxy color **55.7972, 0.3440, 0.4769** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **21.1699, 0.2596, 0.1810**, and the grayscale version is **48.0410, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.3336, 0.3443, 0.4364**, and **27.5590, 0.3455, 0.5181** is the 20% darker color. If you saturate the color by 10%, you get **54.4194, 0.3465, 0.5046**, and if you desaturate by 10%, it is **57.3782, 0.3398, 0.4474**.

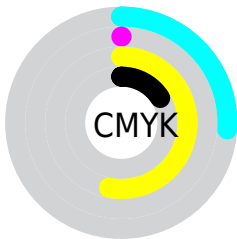
# Distribution



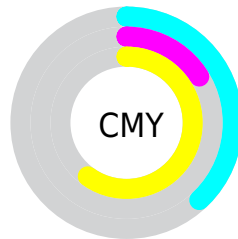
- Red (62%)
- Green (84%)
- Blue (40%)



- Red (40%)
- Yellow (84%)
- Blue (61%)



- Cyan (26%)
- Magenta (0%)
- Yellow (53%)
- Black (16%)



- Cyan (38%)
- Magenta (16%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.7972, 0.3440, 0.4769 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 55.7972, 0.3440, 0.4769 by changing the saturation by 10% instead.




 55.7972, 0.3440,  
0.4769

 55.7972, 0.3440,  
0.4769


408.9268, 0.3326,  
0.4021


 40.0403, 0.3453,  
0.4952


 98.7080, 0.3410,  
0.4499

 27.5700, 0.3459,  
0.5182


 126.6307, 0.3395,  
0.4396

 18.0018, 0.3450,  
0.5477


 159.3776, 0.3381,  
0.4310

 10.9513, 0.3407,  
0.5861

 197.3329, 0.3369,  
0.4235

 6.0341, 0.3359,  
0.6514

240.8810, 0.3357,  
0.4171

 2.8658, 0.2974,  
0.7026

290.4065, 0.3346,


 1.0621, 0.0989,

0.4115

0.9011

346.2936, 0.3336,  
0.4065


 0.0000, 0.0000,  
0.0000

 55.7972, 0.3440,  
0.4769


 55.7972, 0.3440,  
0.4769


 54.4194, 0.3465,  
0.5046

 57.3782, 0.3398,  
0.4474

 53.2268, 0.3469,  
0.5290

 59.1648, 0.3344,  
0.4176

 52.2095, 0.3451,  
0.5487

 61.1686, 0.3281,  
0.3885

 51.3534, 0.3411,  
0.5629

 63.3979, 0.3214,  
0.3609

 50.8066, 0.3372,  
0.5704

 65.8606, 0.3145,  
0.3353

■ 68.5643, 0.3077,  
0.3119

■ 71.5160, 0.3011,  
0.2907

■ 73.6222, 0.3052,  
0.2869

■ 75.5211, 0.3126,  
0.2878

# Harmonies

## Analogous

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



55.7972, 0.4152, 0.4590



55.7972, 0.3440, 0.4769



55.7972, 0.2685, 0.4377

# Triad

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



55.7972, 0.3440, 0.4769



55.7972, 0.1794, 0.2269



55.7972, 0.4227, 0.2944

# Complementary

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



55.7972, 0.3440, 0.4769



21.1699, 0.2596, 0.1810

# Split Complementary

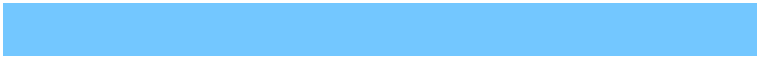
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



55.7972, 0.3444, 0.2473



55.7972, 0.3440, 0.4769



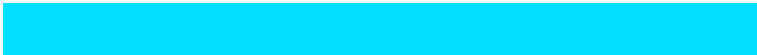
55.7972, 0.2084, 0.2088

# Square

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



55.7972, 0.3440, 0.4769



55.7972, 0.1790, 0.2759



55.7972, 0.2655, 0.2170



55.7972, 0.4677, 0.3508



# Rectangle

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



55.7972, 0.3440, 0.4769



55.7972, 0.2260, 0.3845



55.7972, 0.2655, 0.2170



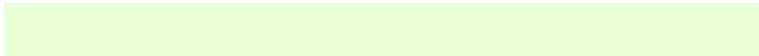
55.7972, 0.3988, 0.2773

# Sweetspot

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



55.7996, 0.3440, 0.4769



94.0442, 0.3238, 0.3706



38.5686, 0.4252, 0.3949



19.9796, 0.3252, 0.3763



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.



55.7996, 0.3440, 0.4769



81.5849, 0.3466, 0.5073



51.4016, 0.3059, 0.4958



14.2037, 0.3192, 0.3526



31.0963, 0.3383, 0.5696



1.9248, 0.3513, 0.5592



# Inverse Universe

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



21.1699, 0.2596, 0.1810



24.1921, 0.2448, 0.1505



27.9759, 0.3166, 0.2033



12.3048, 0.3057, 0.3054



4.8116, 0.2011, 0.0881



0.3394, 0.2201, 0.0986



# Previews

## White Background



This preview shows how the Yxy color 55.7972, 0.3440, 0.4769 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

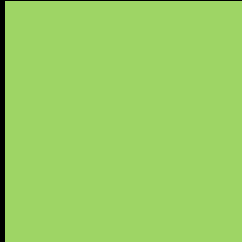
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.7972, 0.3440, 0.4769 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

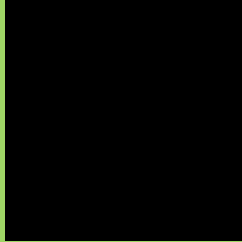
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 55.7972, 0.3440, 0.4769**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.7972, 0.3440, 0.4769.



This preview shows how white text looks on a background with the Yxy color 55.7972, 0.3440, 0.4769.

# 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

55.7972, 0.3440, 0.4769

### Protanopia

55.0761, 0.4051, 0.4421

### Deuteranopia

55.1486, 0.4228, 0.4133



## Tritanopia

55.7298, 0.2826, 0.3104

# Trichromacy



**Original Color**

55.7972, 0.3440, 0.4769

**Protanomaly**

54.8587, 0.3820, 0.4546

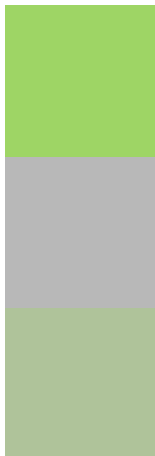
**Deuteranomaly**

54.2014, 0.3931, 0.4360

**Tritanomaly**

55.0435, 0.3063, 0.3696

# Monochromacy



**Original Color**

55.7972, 0.3440, 0.4769

**Achromatopsia**

47.9320, 0.3127, 0.3290

**Achromatomaly**

50.4773, 0.3271, 0.3837

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.7972, 0.3440, 0.4769 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(158, 213, 101)` looks like.

```
.text, #text, p{  
    color:rgb(158, 213, 101)  
}
```

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(158, 213, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 213, 101) }
```

## Border

The CSS property to change the border of an element to Yxy 55.7972, 0.3440, 0.4769 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(158, 213, 101) }
```

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

```
.border{ border-color:rgb(158, 213, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(158, 213, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 213, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 213, 101);  
box-shadow:4px 4px 4px 4px rgb(158, 213,  
101) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.7972, 0.3440, 0.4769 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 213, 101) }
```

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

```
.background{ background-color: rgb(158,  
213, 101) }
```

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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