

# Converting Colors

$Y_{xy}(34.7044, 0.3298, 0.5152)$

Have a look what the booklet for  
Yxy(34.7044, 0.3298, 0.5152)  
contains.

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# Color

**Yxy(34.6980, 0.3304, 0.5155)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	67B140
RGB	103, 177, 64
RGB Percent	40%, 69%, 25%
CMY	0.5961, 0.3059, 0.7491
CMYK	0.42, 0.00, 0.64, 0.31
HSL	99°, 47%, 47%
HSV	99°, 64%, 69%
XYZ	22.2390, 34.6980, 10.3724
YIQ	141.9920, -7.8310, -50.8310

# Conversions

## Conversions Part 2

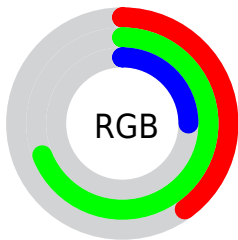
<b>Format</b>	<b>Color</b>
<b>RYB</b>	64, 177, 138
Decimal	6795584
CIELab	65.51, -43.25, 49.20
CIELCh	66, 65.503, 131.316
Yxy	34.6980, 0.3304, 0.5155
Android (android.graphics.Color)	4284985664 (0xFF67B140)
YUV	141.9920, -38.4501, -34.1960
Hunter-Lab	58.9050, -35.6928, 30.7933

# Details

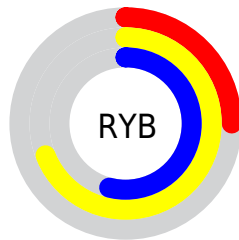
The Yxy color **34.6980, 0.3304, 0.5155** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **12.2430, 0.2686, 0.1624**, and the grayscale version is **27.2026, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.9097, 0.3316, 0.4763**, and **15.0005, 0.3227, 0.5801** is the 20% darker color. If you saturate the color by 10%, you get **33.8905, 0.3290, 0.5419**, and if you desaturate by 10%, it is **35.6675, 0.3302, 0.4857**.

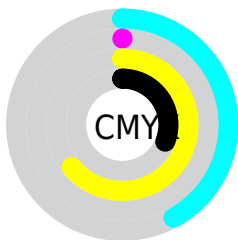
# Distribution



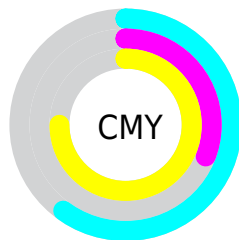
- Red (40%)
- Green (69%)
- Blue (25%)



- Red (25%)
- Yellow (69%)
- Blue (54%)



- Cyan (42%)
- Magenta (0%)
- Yellow (64%)
- Black (31%)



- Cyan (60%)
- Magenta (31%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.6980, 0.3304, 0.5155 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 34.6980, 0.3304, 0.5155 by changing the saturation by 10% instead.





 34.6980, 0.3304,  
0.5155


 34.6980, 0.3304,  
0.5155


323.2333, 0.3272,  
0.4125

 23.4303, 0.3282,  
0.5434


 67.0177, 0.3312,  
0.4762


 14.9116, 0.3230,  
0.5797


 88.8384, 0.3309,  
0.4619

 8.7574, 0.3117,  
0.6280


 114.9457, 0.3303,  
0.4501

 4.5833, 0.2930,  
0.7070

 145.7239, 0.3297,  
0.4402

 2.0049, 0.2234,  
0.7766

 181.5573, 0.3291,  
0.4317

 0.6103, 0.0000,  
1.0000

222.8304, 0.3285,

 0.0000, 0.0000,

0.4244

0.0000

269.9276, 0.3278,  
0.4181

■ 34.6980, 0.3304,  
0.5155

■ 34.6980, 0.3304,  
0.5155

■ 33.8905, 0.3290,  
0.5419

■ 35.6675, 0.3302,  
0.4857

■ 33.2303, 0.3260,  
0.5633

■ 36.8036, 0.3286,  
0.4542

■ 32.7072, 0.3215,  
0.5783

■ 38.1162, 0.3259,  
0.4228

■ 32.4416, 0.3185,  
0.5853

■ 39.6131, 0.3224,  
0.3925

■ 41.3014, 0.3185,  
0.3642

■ 43.1881, 0.3143,  
0.3383

■ 45.2796, 0.3101,  
0.3149

■ 47.5821, 0.3060,  
0.2941

■ 50.1014, 0.3020,  
0.2756

# Harmonies

## Analogous

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



34.6980, 0.4199, 0.4940



34.6980, 0.3304, 0.5155



34.6980, 0.2411, 0.4544

# Triad

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



34.6980, 0.3304, 0.5155



34.6980, 0.1564, 0.1980



34.6980, 0.4640, 0.2950

# Complementary

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



34.6980, 0.3304, 0.5155



12.2430, 0.2686, 0.1624

# 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.



34.6980, 0.3685, 0.2380



34.6980, 0.3304, 0.5155



34.6980, 0.1951, 0.1843

# Square

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



34.6980, 0.3304, 0.5155



34.6980, 0.1496, 0.2476



34.6980, 0.2679, 0.1990



34.6980, 0.5085, 0.3611



# Rectangle

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



34.6980, 0.3304, 0.5155



34.6980, 0.1942, 0.3793



34.6980, 0.2679, 0.1990



34.6980, 0.4359, 0.2746

# Sweetspot

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



34.6995, 0.3304, 0.5155



72.2658, 0.3207, 0.3794



27.7368, 0.4350, 0.4299



15.4820, 0.3218, 0.3874



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



34.6995, 0.3304, 0.5155



60.1323, 0.3279, 0.5522



33.1295, 0.2945, 0.5050



9.6279, 0.3166, 0.3522



23.5338, 0.3192, 0.5847



0.7736, 0.3428, 0.5660



# Inverse Universe

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



12.2430, 0.2686, 0.1624



16.5940, 0.2552, 0.1334



15.5525, 0.3428, 0.2026



8.4970, 0.3084, 0.3062



5.0209, 0.2368, 0.1078



0.1888, 0.2609, 0.1211



# Previews

## White Background



This preview shows how the Yxy color 34.6980, 0.3304, 0.5155 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 34.6980, 0.3304, 0.5155 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

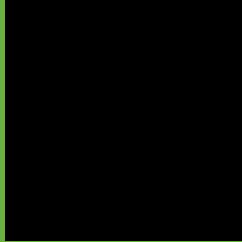
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 34.6980, 0.3304, 0.5155**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.6980, 0.3304, 0.5155.



This preview shows how white text looks on a background with the Yxy color 34.6980, 0.3304, 0.5155.

# 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

34.6980, 0.3304, 0.5155

### Protanopia

34.4592, 0.4181, 0.4600

### Deuteranopia

34.3369, 0.4361, 0.4279



## Tritanopia

34.6647, 0.2655, 0.3089

# Trichromacy



## Original Color

34.6980, 0.3304, 0.5155

## Protanomaly

34.0934, 0.3826, 0.4821

## Deuteranomaly

33.2527, 0.3946, 0.4597

## Tritanomaly

34.2004, 0.2915, 0.3840

# Monochromacy



## Original Color

34.6980, 0.3304, 0.5155

## Achromatopsia

27.0498, 0.3127, 0.3290

## Achromatomaly

29.2468, 0.3231, 0.3994

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.6980, 0.3304, 0.5155 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(103, 177, 64)` looks like.

```
.text, #text, p{  
    color:rgb(103, 177, 64)  
}
```

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(103, 177, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 177, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 34.6980, 0.3304, 0.5155 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(103, 177, 64) }
```

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

```
.border{ border-color:rgb(103, 177, 64) }
```

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

Here you see how a box with a 4 pixel rgb(103, 177, 64) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 177, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 177, 64);  
box-shadow:4px 4px 4px 4px rgb(103, 177,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.6980, 0.3304, 0.5155 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 177, 64) }
```

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

```
.background{ background-color: rgb(103,  
177, 64) }
```

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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