

# Converting Colors

$Y_{xy}(21.1295, 0.3257, 0.4711)$

Have a look what the booklet for  
Yxy(21.1295, 0.3257, 0.4711)  
contains.

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# Color

**Yxy(21.0811, 0.3254, 0.4713)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5A8B46
RGB	90, 139, 70
RGB Percent	35%, 55%, 27%
CMY	0.6470, 0.4549, 0.7255
CMYK	0.35, 0.00, 0.50, 0.45
HSL	103°, 33%, 41%
HSV	103°, 50%, 55%
XYZ	14.5550, 21.0811, 9.0935
YIQ	116.4830, -7.0550, -31.8470

# Conversions

## Conversions Part 2

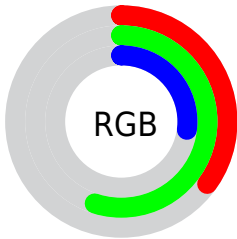
<b>Format</b>	<b>Color</b>
<b>RYB</b>	70, 139, 119
Decimal	5933894
CIELab	53.04, -30.08, 31.61
CIELCh	53, 43.631, 133.576
Yxy	21.0811, 0.3254, 0.4713
Android (android.graphics.Color)	4284123974 (0xFF5A8B46)
YUV	116.4830, -22.9161, -23.2256
Hunter-Lab	45.9142, -23.7643, 20.3972

# Details

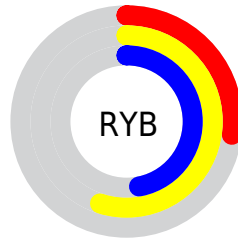
The Yxy color **21.0811, 0.3254, 0.4713** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **10.1627, 0.2877, 0.2023**, and the grayscale version is **17.6955, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.2468, 0.3245, 0.4368**, and **7.4726, 0.3208, 0.5349** is the 20% darker color. If you saturate the color by 10%, you get **20.4639, 0.3257, 0.5024**, and if you desaturate by 10%, it is **21.8064, 0.3240, 0.4396**.

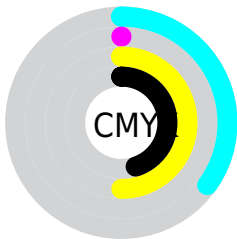
# Distribution



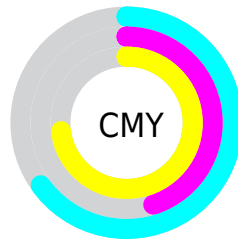
- Red (35%)
- Green (55%)
- Blue (27%)



- Red (27%)
- Yellow (55%)
- Blue (47%)



- Cyan (35%)
- Magenta (0%)
- Yellow (50%)
- Black (45%)




- Cyan (65%)
- Magenta (45%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.0811, 0.3254, 0.4713 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 21.0811, 0.3254, 0.4713 by changing the saturation by 10% instead.





 21.0811, 0.3254,  
0.4713


 21.0811, 0.3254,  
0.4713


257.7092, 0.3214,  
0.3869


 13.1833, 0.3245,  
0.4979


 45.2225, 0.3250,  
0.4368

 7.5549, 0.3212,  
0.5356


 62.2348, 0.3245,  
0.4251

 3.8115, 0.3143,  
0.5969

 83.0541, 0.3239,  
0.4156

 1.5687, 0.2890,  
0.7110

 108.0648, 0.3234,  
0.4078

 0.3363, 0.0000,  
1.0000

 137.6513, 0.3228,  
0.4013

 0.0000, 0.0000,  
0.0000

172.1979, 0.3223,

0.3957

212.0891, 0.3218,  
0.3910

■ 21.0811, 0.3254,  
0.4713

■ 21.0811, 0.3254,  
0.4713

■ 20.4639, 0.3257,  
0.5024

■ 21.8064, 0.3240,  
0.4396

■ 19.9467, 0.3248,  
0.5310

■ 22.6422, 0.3218,  
0.4087

■ 19.5245, 0.3225,  
0.5555


■ 23.5940, 0.3190,  
0.3795


■ 19.1905, 0.3189,  
0.5742

■ 24.6661, 0.3159,  
0.3526

■ 18.9316, 0.3148,  
0.5879


■ 25.8628, 0.3126,  
0.3282

 18.9236, 0.3147,  
0.5884

 27.1879, 0.3093,  
0.3064

 28.6453, 0.3061,  
0.2870

 30.2385, 0.3029,  
0.2699

 31.9711, 0.3000,  
0.2548

# Harmonies

## Analogous

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



21.0811, 0.3987, 0.4660



21.0811, 0.3254, 0.4713



21.0811, 0.2527, 0.4189

# Triad

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



21.0811, 0.3254, 0.4713



21.0811, 0.1850, 0.2210



21.0811, 0.4363, 0.3078

# Complementary

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



21.0811, 0.3254, 0.4713



10.1627, 0.2877, 0.2023

# 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.



21.0811, 0.3641, 0.2581



21.0811, 0.3254, 0.4713



21.0811, 0.2206, 0.2097

# Square

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



21.0811, 0.3254, 0.4713



21.0811, 0.1777, 0.2619



21.0811, 0.2835, 0.2234



21.0811, 0.4694, 0.3648



# Rectangle

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



21.0811, 0.3254, 0.4713



21.0811, 0.2145, 0.3628



21.0811, 0.2835, 0.2234



21.0811, 0.4153, 0.2901

# Sweetspot

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



21.0820, 0.3254, 0.4713



43.0552, 0.3177, 0.3675



18.9580, 0.3996, 0.4147



9.8400, 0.3182, 0.3726



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290



# Same Dimension

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



21.0820, 0.3254, 0.4713



36.4811, 0.3257, 0.5073



20.4040, 0.2945, 0.4501



5.6740, 0.3157, 0.3513



17.0869, 0.3149, 0.5881



0.1203, 0.3461, 0.5634



# Inverse Universe

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



10.1627, 0.2877, 0.2023



14.4668, 0.2794, 0.1744



11.3533, 0.3399, 0.2332



5.0573, 0.3094, 0.3071



4.0686, 0.2505, 0.1154



0.0345, 0.2850, 0.1344



# Previews

## White Background



This preview shows how the Yxy color 21.0811, 0.3254, 0.4713 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

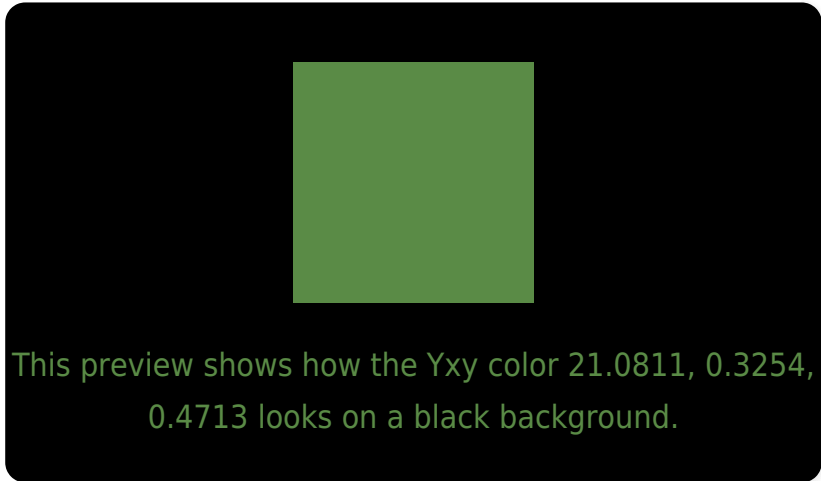
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

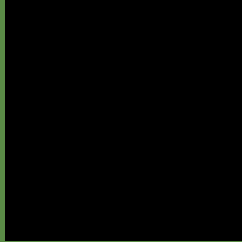
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.0811, 0.3254, 0.4713**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.0811, 0.3254, 0.4713.



This preview shows how white text looks on a background with the Yxy color 21.0811, 0.3254, 0.4713.

# 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

21.0811, 0.3254, 0.4713

### Protanopia

20.8040, 0.3973, 0.4329

### Deuteranopia

20.7132, 0.4111, 0.4032



## Tritanopia

21.0104, 0.2711, 0.3082

# Trichromacy



**Original Color**

21.0811, 0.3254, 0.4713

**Protanomaly**

20.7028, 0.3689, 0.4488

**Deuteranomaly**

20.4056, 0.3773, 0.4278

**Tritanomaly**

20.9078, 0.2917, 0.3649

# Monochromacy



**Original Color**

21.0811, 0.3254, 0.4713

**Achromatopsia**

17.4647, 0.3127, 0.3290

**Achromatomaly**

18.4420, 0.3200, 0.3802

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.0811, 0.3254, 0.4713 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(90, 139, 70)` looks like.

```
.text, #text, p{  
    color:rgb(90, 139, 70)  
}
```

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(90, 139, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 139, 70) }
```

## Border

The CSS property to change the border of an element to Yxy 21.0811, 0.3254, 0.4713 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(90, 139, 70) }
```

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

```
.border{ border-color:rgb(90, 139, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 139, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 139, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 139, 70);  
box-shadow:4px 4px 4px 4px rgb(90, 139,  
70) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.0811, 0.3254, 0.4713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 139, 70) }
```

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

```
.background{ background-color: rgb(90, 139,  
70) }
```

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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