

# Converting Colors

$Y_{xy}(31.3972, 0.2748, 0.3920)$

Have a look what the booklet for  
Yxy(31.3972, 0.2748, 0.3920)  
contains.

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**Color**

**Yxy(31.3781, 0.2747, 0.3917)**

# Conversions

## Conversions Part 1

Format	Color
Hex	58A784
RGB	88, 167, 132
RGB Percent	35%, 65%, 52%
CMY	0.6550, 0.3451, 0.4824
CMYK	0.47, 0.00, 0.21, 0.35
HSL	153°, 31%, 50%
HSV	153°, 47%, 65%
XYZ	22.0055, 31.3781, 26.7239
YIQ	139.3890, -35.8490, -27.6330

# Conversions

## Conversions Part 2

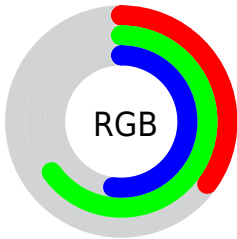
<b>Format</b>	<b>Color</b>
<b>RYB</b>	88, 139, 167
Decimal	5810052
CIELab	62.83, -32.74, 10.69
CIElCh	63, 34.444, 161.927
Yxy	31.3781, 0.2747, 0.3917
Android (android.graphics.Color)	4284000132 (0xFF58A784)
YUV	139.3890, -3.6428, -45.0682
Hunter-Lab	56.0162, -27.9059, 10.9256

# Details

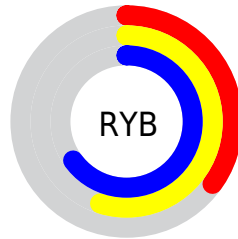
The Yxy color **31.3781, 0.2747, 0.3917** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **16.6208, 0.3811, 0.2754**, and the grayscale version is **25.9990, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.0289, 0.2827, 0.3788**, and **12.9662, 0.2604, 0.4130** is the 20% darker color. If you saturate the color by 10%, you get **30.4605, 0.2694, 0.4080**, and if you desaturate by 10%, it is **32.4993, 0.2813, 0.3763**.

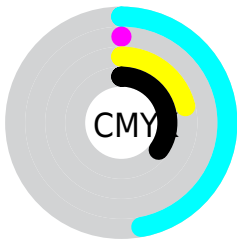
# Distribution



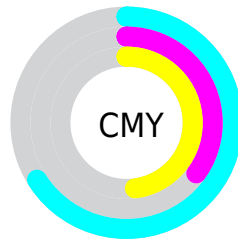
- Red (35%)
- Green (65%)
- Blue (52%)



- Red (35%)
- Yellow (55%)
- Blue (65%)



- Cyan (47%)
- Magenta (0%)
- Yellow (21%)
- Black (35%)




- Cyan (66%)
- Magenta (35%)
- Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.3781, 0.2747, 0.3917 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 31.3781, 0.2747, 0.3917 by changing the saturation by 10% instead.




 31.3781, 0.2747,  
0.3917


 31.3781, 0.2747,  
0.3917

308.2765, 0.2955,  
0.3570


 20.8869, 0.2688,  
0.4017


 61.8349, 0.2828,  
0.3782

 13.0414, 0.2608,  
0.4154


 82.5693, 0.2856,  
0.3734

 7.4570, 0.2492,  
0.4354


 107.4868, 0.2880,  
0.3694

 3.7495, 0.2310,  
0.4671

 136.9720, 0.2900,  
0.3661

 1.5345, 0.1908,  
0.5321

171.4092, 0.2917,  
0.3633

 0.3128, 0.0000,  
1.0000

211.1827, 0.2932,

 0.0000, 0.0000,

0.3609

0.0000

256.6770, 0.2944,  
0.3588

■ 31.3781, 0.2747,  
0.3917

■ 31.3781, 0.2747,  
0.3917

■ 30.4605, 0.2694,  
0.4080

■ 32.4993, 0.2813,  
0.3763

■ 29.7294, 0.2657,  
0.4249

■ 33.8323, 0.2890,  
0.3620

■ 29.1713, 0.2639,  
0.4420


■ 35.3893, 0.2973,  
0.3488


■ 28.7688, 0.2641,  
0.4590

■ 37.1806, 0.3061,  
0.3369

■ 28.4954, 0.2660,  
0.4755


■ 39.2158, 0.3151,  
0.3263

 28.4310, 0.2666,  
0.4799

 41.5039, 0.3242,  
0.3168

 44.0536, 0.3331,  
0.3083

 46.8729, 0.3418,  
0.3010

 49.9698, 0.3502,  
0.2945

# Harmonies

## Analogous

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



31.3781, 0.3274, 0.4252



31.3781, 0.2747, 0.3917



31.3781, 0.2344, 0.3374

# Triad

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



31.3781, 0.2747, 0.3917



31.3781, 0.2450, 0.2423



31.3781, 0.4213, 0.3564

# Complementary

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



31.3781, 0.2747, 0.3917



16.6208, 0.3811, 0.2754

# 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.



31.3781, 0.3958, 0.3136



31.3781, 0.2747, 0.3917



31.3781, 0.2903, 0.2509

# Square

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



31.3781, 0.2747, 0.3917



31.3781, 0.2189, 0.2535



31.3781, 0.3461, 0.2763



31.3781, 0.4140, 0.3970



# Rectangle

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



31.3781, 0.2747, 0.3917



31.3781, 0.2190, 0.3018



31.3781, 0.3461, 0.2763



31.3781, 0.4163, 0.3419

# Sweetspot

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



31.3794, 0.2747, 0.3917



64.3133, 0.3000, 0.3451



32.5951, 0.3371, 0.4611



14.2484, 0.2982, 0.3476



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

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



31.3794, 0.2747, 0.3917



54.4439, 0.2691, 0.4092



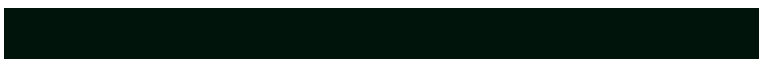
31.0779, 0.2499, 0.3221



8.4751, 0.3044, 0.3392



21.7634, 0.2662, 0.4784



0.5396, 0.2509, 0.4234



# Inverse Universe

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



16.6208, 0.3811, 0.2754



24.7138, 0.4053, 0.2649



16.5614, 0.4359, 0.3355



7.5955, 0.3219, 0.3190



6.6743, 0.5160, 0.2616



0.1728, 0.4363, 0.2177



# Previews

## White Background



This preview shows how the Yxy color 31.3781, 0.2747, 0.3917 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 31.3781, 0.2747, 0.3917 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

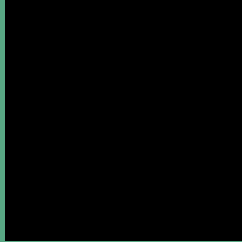
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.3781, 0.2747, 0.3917**

## Background



This preview shows how black text looks on a background with the Yxy color 31.3781, 0.2747, 0.3917.

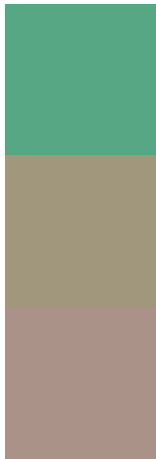


This preview shows how white text looks on a background with the Yxy color 31.3781, 0.2747, 0.3917.

# 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

31.3781, 0.2747, 0.3917

### Protanopia

31.0620, 0.3485, 0.3707

### Deuteranopia

31.0218, 0.3487, 0.3424



## Tritanopia

31.1984, 0.2517, 0.3075

# Trichromacy



**Original Color**

31.3781, 0.2747, 0.3917

**Protanomaly**

30.7146, 0.3172, 0.3788

**Deuteranomaly**

30.5232, 0.3173, 0.3598

**Tritanomaly**

31.1305, 0.2596, 0.3357

# Monochromacy



**Original Color**

31.3781, 0.2747, 0.3917

**Achromatopsia**

25.8183, 0.3127, 0.3290

**Achromatomaly**

27.2655, 0.2958, 0.3516

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.3781, 0.2747, 0.3917 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(88, 167, 132)` looks like.

```
.text, #text, p{  
    color:rgb(88, 167, 132)  
}
```

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(88, 167, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 167, 132) }
```

## Border

The CSS property to change the border of an element to Yxy 31.3781, 0.2747, 0.3917 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(88, 167, 132) }
```

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

```
.border{ border-color:rgb(88, 167, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 167, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 167, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 167, 132);  
box-shadow:4px 4px 4px 4px rgb(88, 167,  
132) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.3781, 0.2747, 0.3917 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 167, 132) }
```

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

```
.background{ background-color: rgb(88, 167,  
132) }
```

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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