

# Converting Colors

$Y_{xy}(32.1221, 0.2787, 0.4170)$

Have a look what the booklet for  
Yxy(32.1221, 0.2787, 0.4170)  
contains.

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# Color

**Yxy(31.9484, 0.2783, 0.4162)**

# Conversions

Conversions Part 1	
Format	Color
Hex	52AA7A
RGB	82, 170, 122
RGB Percent	32%, 67%, 48%
CMY	0.6787, 0.3333, 0.5216
CMYK	0.52, 0.00, 0.28, 0.33
HSL	147°, 35%, 49%
HSV	147°, 52%, 67%
XYZ	21.3629, 31.9484, 23.4508
YIQ	138.2160, -37.0400, -33.5840

# Conversions

## Conversions Part 2

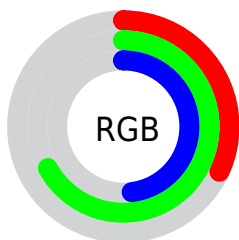
Format	Color
<a href="#">RYB</a>	<a href="#">82, 143, 170</a>
Decimal	<a href="#">5417594</a>
CIELab	<a href="#">63.30, -37.81, 16.84</a>
CIELCh	<a href="#">63, 41.389, 155.992</a>
Yxy	<a href="#">31.9484, 0.2783, 0.4162</a>
Android (android.graphics.Color)	<a href="#">4283607674</a> (0xFF52AA7A)
YUV	<a href="#">138.2160, -7.9945, -49.3014</a>
Hunter-Lab	<a href="#">56.5229, -31.4508, 14.9672</a>

# Details

The Yxy color **31.9484, 0.2783, 0.4162** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **16.1833, 0.3762, 0.2578**, and the grayscale version is **25.5389, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.8062, 0.2858, 0.3966**, and **13.3523, 0.2646, 0.4500** is the 20% darker color. If you saturate the color by 10%, you get **31.0614, 0.2746, 0.4369**, and if you desaturate by 10%, it is **33.0487, 0.2834, 0.3964**.

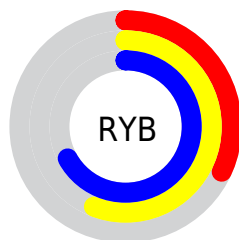
# Distribution



Red (32%)

Green (67%)

Blue (48%)



Red (32%)

Yellow (56%)

Blue (67%)

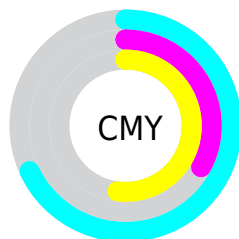


Cyan (52%)

Magenta (0%)

Yellow (28%)

Black (33%)



Cyan (68%)

Magenta (33%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.9484, 0.2783, 0.4162 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 31.9484, 0.2783, 0.4162 by changing the saturation by 10% instead.





 31.9484, 0.2783,  
0.4162


 31.9484, 0.2783,  
0.4162


310.8841, 0.2977,  
0.3675


 21.3221, 0.2726,  
0.4304


 62.7302, 0.2860,  
0.3971

 13.3596, 0.2646,  
0.4499


 83.6545, 0.2887,  
0.3904


 7.6767, 0.2527,  
0.4786


 108.7802, 0.2909,  
0.3848

 3.8888, 0.2336,  
0.5242

 138.4917, 0.2927,  
0.3802

 1.6115, 0.1896,  
0.6410

 173.1735, 0.2943,  
0.3763

 0.3654, 0.0000,  
1.0000


213.2099, 0.2956,


 0.0000, 0.0000,


0.3729


0.0000


258.9853, 0.2967,  
0.3700


 31.9484, 0.2783,  
0.4162

 31.9484, 0.2783,  
0.4162


 31.0614, 0.2746,  
0.4369


 33.0487, 0.2834,  
0.3964


 30.3689, 0.2725,  
0.4581

 34.3718, 0.2896,  
0.3778


 29.8554, 0.2723,  
0.4790


 35.9311, 0.2965,  
0.3607

 29.5010, 0.2739,  
0.4991


 37.7379, 0.3038,  
0.3452


 29.2939, 0.2763,  
0.5146

 39.8029, 0.3113,  
0.3313

 42.1359, 0.3189,  
0.3190

 44.7464, 0.3264,  
0.3081

 47.6433, 0.3337,  
0.2985

 50.8350, 0.3407,  
0.2901

# Harmonies

## Analogous

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



31.9484, 0.3415, 0.4484



31.9484, 0.2783, 0.4162



31.9484, 0.2276, 0.3518

# Triad

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



31.9484, 0.2783, 0.4162



31.9484, 0.2251, 0.2280



31.9484, 0.4394, 0.3493

# Complementary

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



31.9484, 0.2783, 0.4162



16.1833, 0.3762, 0.2578

# 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.



31.9484, 0.4020, 0.3007



31.9484, 0.2783, 0.4162



31.9484, 0.2736, 0.2342

# Square

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



31.9484, 0.2783, 0.4162



31.9484, 0.2001, 0.2450



31.9484, 0.3387, 0.2601



31.9484, 0.4374, 0.3984



# Rectangle

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



31.9484, 0.2783, 0.4162



31.9484, 0.2067, 0.3072



31.9484, 0.3387, 0.2601



31.9484, 0.4310, 0.3326

# Sweetspot

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



31.9497, 0.2783, 0.4162



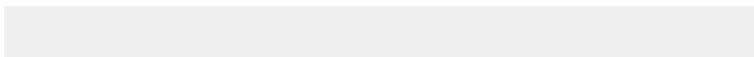
66.9343, 0.3005, 0.3520



34.1377, 0.3469, 0.4706



14.7820, 0.2990, 0.3551



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290



# Same Dimension

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



31.9497, 0.2783, 0.4162



56.1639, 0.2742, 0.4397



33.2835, 0.2495, 0.3362



8.4624, 0.3057, 0.3416



21.5569, 0.2757, 0.5126



0.5349, 0.2575, 0.4471



# Inverse Universe

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



16.1833, 0.3762, 0.2578



24.4071, 0.3975, 0.2452



15.2502, 0.4506, 0.3229



7.6082, 0.3204, 0.3168



6.8752, 0.4735, 0.2382



0.1774, 0.4108, 0.2037



# Previews

## White Background



This preview shows how the Yxy color 31.9484, 0.2783, 0.4162 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 31.9484, 0.2783, 0.4162 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 31.9484, 0.2783, 0.4162**

## Background



This preview shows how black text looks on a background with the Yxy color 31.9484, 0.2783, 0.4162.



This preview shows how white text looks on a background with the Yxy color 31.9484, 0.2783, 0.4162.

# 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

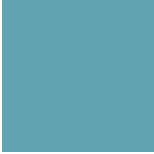
31.9484, 0.2783, 0.4162

### Protanopia

31.4579, 0.3614, 0.3871

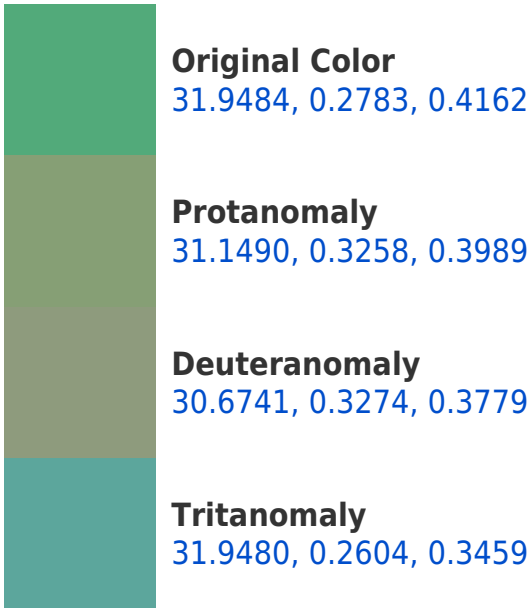
### Deuteranopia

31.3202, 0.3647, 0.3568

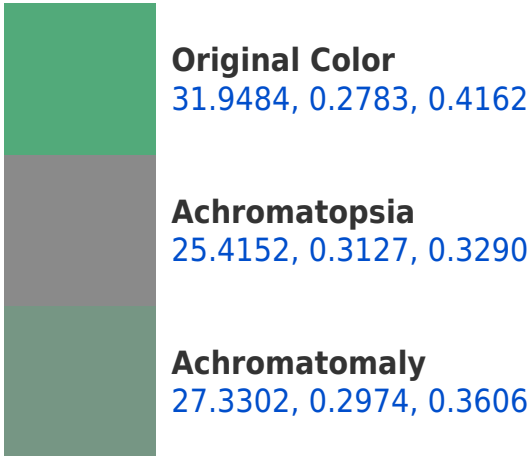


**Tritanopia**  
31.8704, 0.2497, 0.3076

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.9484, 0.2783, 0.4162 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(82, 170, 122) looks like.

```
.text, #text, p{  
    color:rgb(82, 170, 122)  
}
```

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(82, 170, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(82, 170, 122) }
```

## Border

The CSS property to change the border of an element to Yxy 31.9484, 0.2783, 0.4162 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(82, 170, 122) }
```

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

```
.border{ border-color:rgb(82, 170, 122) }
```

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

Here you see how a box with a 4 pixel rgb(82, 170, 122) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(82, 170, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(82, 170, 122);  
box-shadow:4px 4px 4px 4px rgb(82, 170,  
122) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.9484, 0.2783, 0.4162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(82, 170, 122) }
```

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

```
.background{ background-color: rgb(82, 170,  
122) }
```

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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