

# Converting Colors

$Y_{xy}(31.3952, 0.3203, 0.4152)$

Have a look what the booklet for  
Yxy(31.3952, 0.3203, 0.4152)  
contains.

<b>Yxy(31.2956, 0.3198, 0.4142)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(31.2956, 0.3198, 0.4142)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7CA270
RGB	124, 162, 112
RGB Percent	49%, 64%, 44%
CMY	0.5135, 0.3647, 0.5608
CMYK	0.23, 0.00, 0.31, 0.36
HSL	106°, 21%, 54%
HSV	106°, 31%, 64%
XYZ	24.1630, 31.2956, 20.0981
YIQ	144.9380, -6.5980, -23.6060

# Conversions

## Conversions Part 2

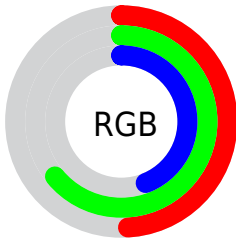
Format	Color
R <sub>Y</sub> B	112, 162, 150
Decimal	8168048
CIE Lab	62.76, -22.72, 21.91
CIE LCh	63, 31.567, 136.042
Yxy	31.2956, 0.3198, 0.4142
Android (android.graphics.Color)	4286358128 (0xFF7CA270)
YUV	144.9380, -16.2384, -18.3626
Hunter-Lab	55.9425, -20.8004, 17.8590

# Details

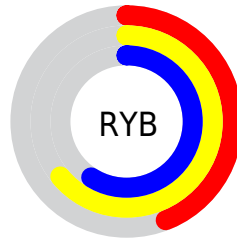
The Yxy color **31.2956, 0.3198, 0.4142** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **20.6773, 0.3019, 0.2509**, and the grayscale version is **28.3628, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.6532, 0.3188, 0.3960**, and **12.9779, 0.3197, 0.4449** is the 20% darker color. If you saturate the color by 10%, you get **30.1077, 0.3212, 0.4462**, and if you desaturate by 10%, it is **32.6653, 0.3178, 0.3839**.

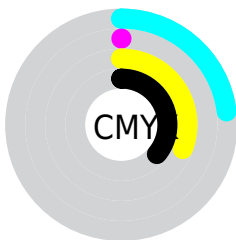
# Distribution



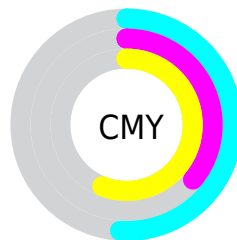
- Red (49%)
- Green (64%)
- Blue (44%)



- Red (44%)
- Yellow (64%)
- Blue (59%)



- Cyan (23%)
- Magenta (0%)
- Yellow (31%)
- Black (36%)




- Cyan (51%)
- Magenta (36%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.2956, 0.3198, 0.4142 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 31.2956, 0.3198, 0.4142 by changing the saturation by 10% instead.




 31.2956, 0.3198,  
0.4142


 31.2956, 0.3198,  
0.4142


307.8978, 0.3171,  
0.3670

 20.8240, 0.3200,  
0.4277


 61.7052, 0.3191,  
0.3958


 12.9954, 0.3199,  
0.4462


 82.4120, 0.3188,  
0.3893

 7.4254, 0.3189,  
0.4730


 107.2993, 0.3184,  
0.3839

 3.7295, 0.3154,  
0.5145

 136.7516, 0.3181,  
0.3794

 1.5235, 0.3399,  
0.6576

171.1532, 0.3178,  
0.3756

 0.3051, 0.0000,  
1.0000

210.8885, 0.3176,

 0.0000, 0.0000,

0.3723

0.0000

256.3419, 0.3173,  
0.3695

■ 31.2956, 0.3198,  
0.4142

■ 31.2956, 0.3198,  
0.4142

■ 30.1077, 0.3212,  
0.4462

■ 32.6653, 0.3178,  
0.3839

■ 29.0901, 0.3219,  
0.4789

■ 34.2201, 0.3155,  
0.3561

■ 28.2356, 0.3215,  
0.5107


■ 35.9679, 0.3129,  
0.3310


■ 27.5355, 0.3200,  
0.5396


■ 37.9154, 0.3103,  
0.3087


■ 26.9797, 0.3173,  
0.5636

■ 40.0687, 0.3077,  
0.2889


 26.5571, 0.3136,  
0.5810

 42.4335, 0.3052,  
0.2716

 26.2700, 0.3100,  
0.5920

 45.0155, 0.3028,  
0.2564

 47.8202, 0.3006,  
0.2430

 50.6710, 0.3005,  
0.2338

# Harmonies

## Analogous

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



31.2956, 0.3680, 0.4186



31.2956, 0.3198, 0.4142



31.2956, 0.2720, 0.3800

# Triad

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



31.2956, 0.3198, 0.4142



31.2956, 0.2281, 0.2569



31.2956, 0.3937, 0.3204

# Complementary

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



31.2956, 0.3198, 0.4142



20.6773, 0.3019, 0.2509

# 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.



31.2956, 0.3505, 0.2846



31.2956, 0.3198, 0.4142



31.2956, 0.2552, 0.2488

# Square

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



31.2956, 0.3198, 0.4142



31.2956, 0.2217, 0.2849



31.2956, 0.2991, 0.2591



31.2956, 0.4132, 0.3603



# Rectangle

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



31.2956, 0.3198, 0.4142



31.2956, 0.2466, 0.3471



31.2956, 0.2991, 0.2591



31.2956, 0.3813, 0.3077

# Sweetspot

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



31.2969, 0.3198, 0.4142



62.6409, 0.3151, 0.3517



30.5027, 0.3633, 0.3868



13.9738, 0.3154, 0.3554



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290



# Same Dimension

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



31.2969, 0.3198, 0.4142



55.3108, 0.3208, 0.4360



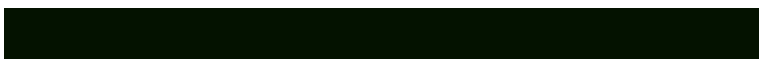
30.7511, 0.2985, 0.3944



7.9736, 0.3151, 0.3520



20.7157, 0.3105, 0.5916



0.4555, 0.3359, 0.5715



# Inverse Universe

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



20.6773, 0.3019, 0.2509



32.9123, 0.2987, 0.2329



21.4564, 0.3310, 0.2715



7.1158, 0.3101, 0.3066



5.3909, 0.2617, 0.1215



0.1330, 0.2845, 0.1341



# Previews

## White Background



This preview shows how the Yxy color 31.2956, 0.3198, 0.4142 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

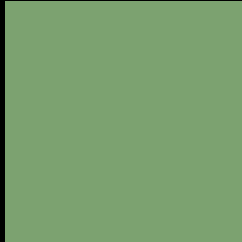
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.2956, 0.3198, 0.4142 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

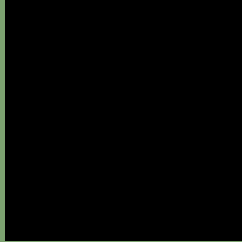
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.2956, 0.3198, 0.4142**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.2956, 0.3198, 0.4142.



This preview shows how white text looks on a background with the Yxy color 31.2956, 0.3198, 0.4142.

# 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

31.2956, 0.3198, 0.4142

### Protanopia

30.9813, 0.3687, 0.3963

### Deuteranopia

30.9767, 0.3791, 0.3712



## Tritanopia

31.2193, 0.2818, 0.3101

# Trichromacy



## Original Color

31.2956, 0.3198, 0.4142

## Protanomaly

30.9364, 0.3498, 0.4026

## Deuteranomaly

30.6401, 0.3553, 0.3852

## Tritanomaly

31.3061, 0.2959, 0.3469

# Monochromacy



## Original Color

31.2956, 0.3198, 0.4142

## Achromatopsia

28.3149, 0.3127, 0.3290

## Achromatomaly

29.1450, 0.3154, 0.3588

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  31.2956, 0.3198, 0.4142 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(124, 162, 112)` looks like.

```
.text, #text, p{  
    color:rgb(124, 162, 112)  
}
```

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(124, 162, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 162, 112) }
```

## Border

The CSS property to change the border of an element to Yxy 31.2956, 0.3198, 0.4142 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(124, 162, 112) }
```

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

```
.border{ border-color:rgb(124, 162, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 162, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(124, 162, 112); -webkit-box-shadow:4px 4px 4px 4px rgb(124, 162, 112); box-shadow:4px 4px 4px 4px rgb(124, 162, 112) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.2956, 0.3198, 0.4142 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 162, 112) }
```

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

```
.background{ background-color: rgb(124,  
162, 112) }
```

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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