

# Converting Colors

$Y_{xy}(28.2114, 0.2997, 0.4210)$

Have a look what the booklet for  
Yxy(28.2114, 0.2997, 0.4210)  
contains.

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# Color

**$\text{Yxy}(28.2105, 0.2996, 0.4198)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	639E6D
RGB	99, 158, 109
RGB Percent	39%, 62%, 43%
CMY	0.6118, 0.3804, 0.5725
CMYK	0.37, 0.00, 0.31, 0.38
HSL	130°, 23%, 50%
HSV	130°, 37%, 62%
XYZ	20.1331, 28.2105, 18.8563
YIQ	134.7730, -19.4350, -27.7470

# Conversions

## Conversions Part 2

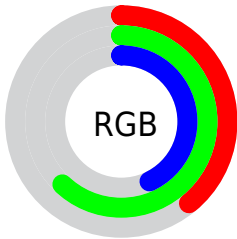
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	99, 149, 158
Decimal	6528621
CIE <sub>Lab</sub>	60.08, -29.87, 19.69
CIE <sub>LCh</sub>	60, 35.777, 146.608
Yxy	28.2105, 0.2996, 0.4198
Android (android.graphics.Color)	4284718701 (0xFF639E6D)
YUV	134.7730, -12.7061, -31.3729
Hunter-Lab	53.1136, -25.2870, 16.1305

# Details

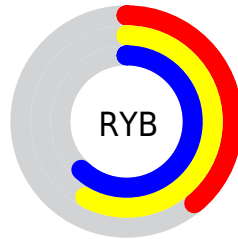
The Yxy color **28.2105, 0.2996, 0.4198** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **18.3301, 0.3296, 0.2527**, and the grayscale version is **24.1940, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.8371, 0.3031, 0.3991**, and **11.2734, 0.2921, 0.4564** is the 20% darker color. If you saturate the color by 10%, you get **27.1454, 0.2967, 0.4494**, and if you desaturate by 10%, it is **29.4943, 0.3029, 0.3920**.

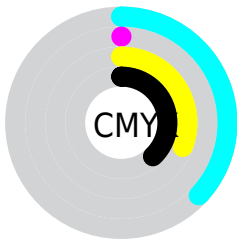
# Distribution



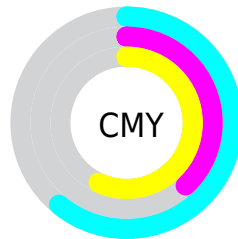
- Red (39%)
- Green (62%)
- Blue (43%)



- Red (39%)
- Yellow (58%)
- Blue (62%)



- Cyan (37%)
- Magenta (0%)
- Yellow (31%)
- Black (38%)




- Cyan (61%)
- Magenta (38%)
- Yellow (57%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.2105, 0.2996, 0.4198 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 28.2105, 0.2996, 0.4198 by changing the saturation by 10% instead.





 28.2105, 0.2996,  
0.4198


 28.2105, 0.2996,  
0.4198


293.4714, 0.3080,  
0.3682


 18.4844, 0.2967,  
0.4352


 56.8203, 0.3032,  
0.3993


 11.2983, 0.2922,  
0.4567

 76.4729, 0.3044,  
0.3922

 6.2679, 0.2849,  
0.4887


 100.2030, 0.3053,  
0.3864

 3.0086, 0.2711,  
0.5409

 128.3951, 0.3060,  
0.3815

 1.1362, 0.2257,  
0.7743

161.4336, 0.3067,  
0.3774

 0.0087, 0.0000,  
1.0000

199.7029, 0.3072,

 0.0000, 0.0000,

0.3739

0.0000

243.5874, 0.3076,  
0.3709

■ 28.2105, 0.2996,  
0.4198

■ 28.2105, 0.2996,  
0.4198

■ 27.1454, 0.2967,  
0.4494

■ 29.4943, 0.3029,  
0.3920

■ 26.2832, 0.2944,  
0.4799

■ 31.0043, 0.3065,  
0.3667

■ 25.6121, 0.2930,  
0.5098


■ 32.7520, 0.3101,  
0.3440


■ 25.1170, 0.2926,  
0.5375


■ 34.7472, 0.3136,  
0.3239

■ 24.7810, 0.2934,  
0.5611

■ 36.9991, 0.3170,  
0.3064


 24.5771, 0.2950,  
0.5793

 39.5162, 0.3202,  
0.2911

 24.5331, 0.2953,  
0.5832

 42.3070, 0.3232,  
0.2779

 45.3792, 0.3260,  
0.2664

 48.7406, 0.3286,  
0.2565

# Harmonies

## Analogous

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



28.2105, 0.3574, 0.4370



28.2105, 0.2996, 0.4198



28.2105, 0.2482, 0.3691

# Triad

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



28.2105, 0.2996, 0.4198



28.2105, 0.2233, 0.2395



28.2105, 0.4198, 0.3341

# Complementary

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



28.2105, 0.2996, 0.4198



18.3301, 0.3296, 0.2527

# 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.



28.2105, 0.3769, 0.2908



28.2105, 0.2996, 0.4198



28.2105, 0.2616, 0.2385

# Square

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



28.2105, 0.2996, 0.4198



28.2105, 0.2075, 0.2629



28.2105, 0.3173, 0.2570



28.2105, 0.4299, 0.3797



# Rectangle

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



28.2105, 0.2996, 0.4198



28.2105, 0.2240, 0.3283



28.2105, 0.3173, 0.2570



28.2105, 0.4086, 0.3190

# Sweetspot

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



28.2117, 0.2996, 0.4198



58.1946, 0.3087, 0.3524



31.6672, 0.3568, 0.4228



13.0288, 0.3083, 0.3553



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290



# Same Dimension

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



28.2117, 0.2996, 0.4198



49.5540, 0.2971, 0.4450



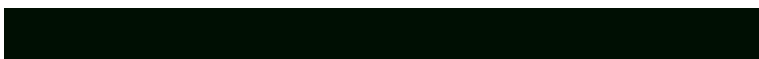
28.9519, 0.2764, 0.3640



7.4185, 0.3094, 0.3481



19.6519, 0.2950, 0.5821



0.3559, 0.2790, 0.5245



# Inverse Universe

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



18.3301, 0.3296, 0.2527



28.8971, 0.3345, 0.2360



17.5164, 0.3709, 0.2971



6.7352, 0.3162, 0.3106



7.1430, 0.3680, 0.1801



0.1324, 0.3465, 0.1682



# Previews

## White Background



This preview shows how the Yxy color 28.2105, 0.2996, 0.4198 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



This preview shows how the Yxy color 28.2105, 0.2996, 0.4198 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

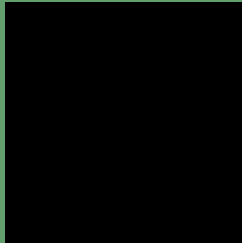
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.2105, 0.2996, 0.4198**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.2105, 0.2996, 0.4198.



This preview shows how white text looks on a background with the Yxy color 28.2105, 0.2996, 0.4198.

# 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

28.2105, 0.2996, 0.4198

### Protanopia

27.8944, 0.3670, 0.3946

### Deuteranopia

27.6940, 0.3743, 0.3673



## Tritanopia

28.0926, 0.2649, 0.3087

# Trichromacy



**Original Color**

28.2105, 0.2996, 0.4198

**Protanomaly**

27.6657, 0.3403, 0.4043

**Deuteranomaly**

27.2603, 0.3436, 0.3842

**Tritanomaly**

28.1585, 0.2778, 0.3483

# Monochromacy



**Original Color**

28.2105, 0.2996, 0.4198

**Achromatopsia**

24.2281, 0.3127, 0.3290

**Achromatomaly**

25.2889, 0.3071, 0.3593

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.2105, 0.2996, 0.4198 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(99, 158, 109)` looks like.

```
.text, #text, p{  
    color:rgb(99, 158, 109)  
}
```

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(99, 158, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 158, 109) }
```

## Border

The CSS property to change the border of an element to Yxy 28.2105, 0.2996, 0.4198 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(99, 158, 109) }
```

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

```
.border{ border-color:rgb(99, 158, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 158, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 158, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 158, 109);  
box-shadow:4px 4px 4px 4px rgb(99, 158,  
109) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.2105, 0.2996, 0.4198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 158, 109) }
```

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

```
.background{ background-color: rgb(99, 158,  
109) }
```

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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