

# Converting Colors

$Y_{xy}(28.8250, 0.2462, 0.3685)$

Have a look what the booklet for  
Yxy(28.8250, 0.2462, 0.3685)  
contains.

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**Color**

**Yxy(28.8003, 0.2462, 0.3684)**

# Conversions

## Conversions Part 1

Format	Color
Hex	31A38E
RGB	49, 163, 142
RGB Percent	19%, 64%, 56%
CMY	0.8076, 0.3608, 0.4432
CMYK	0.70, 0.00, 0.13, 0.36
HSL	169°, 54%, 42%
HSV	169°, 70%, 64%
XYZ	19.2471, 28.8003, 30.1293
YIQ	126.5200, -61.2030, -30.6990

# Conversions

## Conversions Part 2

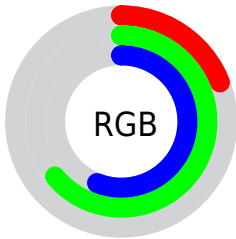
<b>Format</b>	<b>Color</b>
<b>RYB</b>	49, 112, 163
Decimal	3253134
CIELab	60.60, -36.58, 1.75
CIElCh	61, 36.620, 177.263
Yxy	28.8003, 0.2462, 0.3684
Android (android.graphics.Color)	4281443214 (0xFF31A38E)
YUV	126.5200, 7.6316, -67.9850
Hunter-Lab	53.6659, -29.8969, 4.2793

# Details

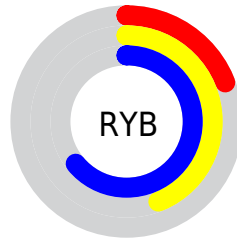
The Yxy color **28.8003, 0.2462, 0.3684** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.4310, 0.4996, 0.3010**, and the grayscale version is **21.0448, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.0281, 0.2598, 0.3602**, and **11.9246, 0.2386, 0.3790** is the 20% darker color. If you saturate the color by 10%, you get **28.3773, 0.2428, 0.3750**, and if you desaturate by 10%, it is **29.3746, 0.2515, 0.3619**.

# Distribution



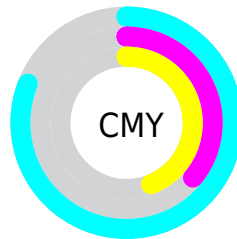
- Red (19%)
- Green (64%)
- Blue (56%)



- Red (19%)
- Yellow (44%)
- Blue (64%)



- Cyan (70%)
- Magenta (0%)
- Yellow (13%)
- Black (36%)




- Cyan (81%)
- Magenta (36%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.8003, 0.2462, 0.3684 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 28.8003, 0.2462, 0.3684 by changing the saturation by 10% instead.




 28.8003, 0.2462,  
0.3684


 28.8003, 0.2462,  
0.3684


296.2716, 0.2820,  
0.3470

 18.9298, 0.2364,  
0.3743


 57.7596, 0.2598,  
0.3602


 11.6196, 0.2233,  
0.3824


 77.6173, 0.2648,  
0.3573


 6.4852, 0.2048,  
0.3938


 101.5728, 0.2688,  
0.3548

 3.1423, 0.1772,  
0.4112

 130.0105, 0.2723,  
0.3528

 1.2065, 0.0858,  
0.4643

 163.3148, 0.2752,  
0.3510

 0.0670, 0.0000,  
1.0000

201.8702, 0.2778,

 0.0000, 0.0000,

0.3495

0.0000

246.0610, 0.2800,  
0.3482

■ 28.8003, 0.2462,  
0.3684

■ 28.8003, 0.2462,  
0.3684

■ 28.3773, 0.2428,  
0.3750

■ 29.3746, 0.2515,  
0.3619

■ 28.0855, 0.2413,  
0.3815

■ 30.1110, 0.2585,  
0.3556

■ 27.8880, 0.2412,  
0.3881

■ 31.0232, 0.2672,  
0.3495

■ 27.8862, 0.2411,  
0.3881

■ 32.1226, 0.2772,  
0.3438

■ 33.4193, 0.2884,  
0.3384

■ 34.9231, 0.3003,  
0.3335

■ 36.6429, 0.3128,  
0.3290

■ 38.5871, 0.3257,  
0.3249

■ 40.7638, 0.3386,  
0.3213

# Harmonies

## Analogous

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



28.8003, 0.2980, 0.4206



28.8003, 0.2462, 0.3684



28.8003, 0.2139, 0.3072

# Triad

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



28.8003, 0.2462, 0.3684



28.8003, 0.2619, 0.2374



28.8003, 0.4316, 0.3813

# Complementary

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



28.8003, 0.2462, 0.3684



10.4310, 0.4996, 0.3010

# 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.



28.8003, 0.4222, 0.3351



28.8003, 0.2462, 0.3684



28.8003, 0.3187, 0.2566

# Square

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



28.8003, 0.2462, 0.3684



28.8003, 0.2226, 0.2379



28.8003, 0.3792, 0.2911



28.8003, 0.4062, 0.4207



# Rectangle

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



28.8003, 0.2462, 0.3684



28.8003, 0.2059, 0.2740



28.8003, 0.3792, 0.2911



28.8003, 0.4326, 0.3661

# Sweetspot

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



28.8014, 0.2462, 0.3684



59.4832, 0.2866, 0.3392



27.7885, 0.3167, 0.5394



13.2184, 0.2837, 0.3406



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.



28.8014, 0.2462, 0.3684



50.4989, 0.2417, 0.3787



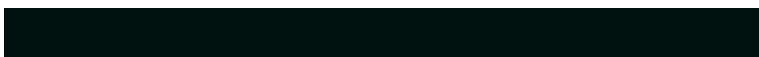
18.9511, 0.2177, 0.2627



7.9887, 0.3011, 0.3332



21.6789, 0.2410, 0.3875



0.4610, 0.2344, 0.3639



# Inverse Universe

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



10.4310, 0.4996, 0.3010



15.4825, 0.5630, 0.3045



14.2320, 0.4983, 0.3778



7.1063, 0.3257, 0.3249



6.1298, 0.6075, 0.3121

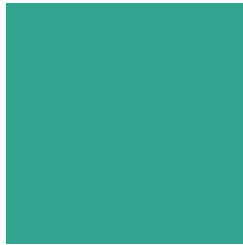


0.1344, 0.5235, 0.2658



# Previews

## White Background



This preview shows how the Yxy color 28.8003, 0.2462, 0.3684 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 28.8003, 0.2462, 0.3684 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 28.8003, 0.2462, 0.3684**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.8003, 0.2462, 0.3684.

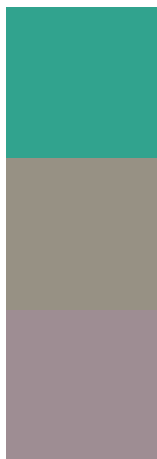


This preview shows how white text looks on a background with the Yxy color 28.8003, 0.2462, 0.3684.

# 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

28.8003, 0.2462, 0.3684

### Protanopia

28.4961, 0.3321, 0.3498

### Deuteranopia

28.4254, 0.3250, 0.3198



## Tritanopia

28.8648, 0.2329, 0.3062

# Trichromacy



**Original Color**

28.8003, 0.2462, 0.3684

**Protanomaly**

27.8115, 0.2903, 0.3571

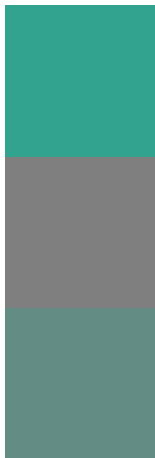
**Deuteranomaly**

27.3908, 0.2860, 0.3358

**Tritanomaly**

28.6446, 0.2375, 0.3270

# Monochromacy



**Original Color**

28.8003, 0.2462, 0.3684

**Achromatopsia**

21.2231, 0.3127, 0.3290

**Achromatomaly**

23.0748, 0.2787, 0.3441

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.8003, 0.2462, 0.3684 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(49, 163, 142)` looks like.

```
.text, #text, p{  
    color:rgb(49, 163, 142)  
}
```

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(49, 163, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 163, 142) }
```

## Border

The CSS property to change the border of an element to Yxy 28.8003, 0.2462, 0.3684 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(49, 163, 142) }
```

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

```
.border{ border-color:rgb(49, 163, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 163, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 163, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 163, 142);  
box-shadow:4px 4px 4px 4px rgb(49, 163,  
142) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.8003, 0.2462, 0.3684 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 163, 142) }
```

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

```
.background{ background-color: rgb(49, 163,  
142) }
```

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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