

# Converting Colors

$Y_{xy}(27.7782, 0.2437, 0.3603)$

Have a look what the booklet for  
Yxy(27.7782, 0.2437, 0.3603)  
contains.

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# Color

**$\text{Yxy}(27.7532, 0.2439, 0.3611)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	30A08F
RGB	48, 160, 143
RGB Percent	19%, 63%, 56%
CMY	0.8120, 0.3725, 0.4392
CMYK	0.70, 0.00, 0.11, 0.37
HSL	171°, 54%, 41%
HSV	171°, 70%, 63%
XYZ	18.7455, 27.7532, 30.3587
YIQ	124.5740, -61.2950, -29.0310

# Conversions

## Conversions Part 2

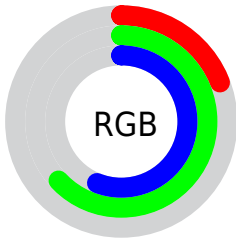
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	48, 109, 160
Decimal	3186831
CIE <sub>Lab</sub>	59.67, -35.10, -0.20
CIE <sub>LCh</sub>	60, 35.101, 180.329
Yxy	27.7532, 0.2439, 0.3611
Android (android.graphics.Color)	4281376911 (0xFF30A08F)
YUV	124.5740, 9.0840, -67.1554
Hunter-Lab	52.6813, -28.6769, 2.7099

# Details

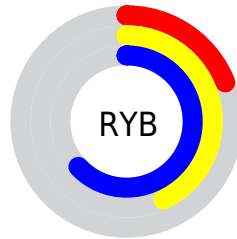
The Yxy color **27.7532, 0.2439, 0.3611** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **9.9633, 0.5077, 0.3065**, and the grayscale version is **20.3363, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.9471, 0.2579, 0.3536**, and **11.5154, 0.2364, 0.3709** is the 20% darker color. If you saturate the color by 10%, you get **27.3608, 0.2403, 0.3664**, and if you desaturate by 10%, it is **28.2896, 0.2494, 0.3559**.

# Distribution



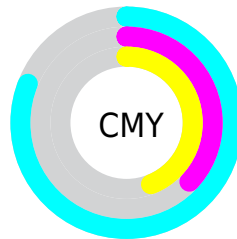
- Red (19%)
- Green (63%)
- Blue (56%)



- Red (19%)
- Yellow (43%)
- Blue (63%)



- Cyan (70%)
- Magenta (0%)
- Yellow (11%)
- Black (37%)




- Cyan (81%)
- Magenta (37%)
- Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.7532, 0.2439, 0.3611 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 27.7532, 0.2439, 0.3611 by changing the saturation by 10% instead.





 27.7532, 0.2439,  
0.3611


 27.7532, 0.2439,  
0.3611


291.2857, 0.2810,  
0.3439


 18.1397, 0.2337,  
0.3658


 56.0902, 0.2580,  
0.3545


 11.0503, 0.2201,  
0.3722


 75.5824, 0.2631,  
0.3522


 6.1007, 0.2009,  
0.3810

 99.1364, 0.2674,  
0.3502

 2.9064, 0.1722,  
0.3943

 127.1365, 0.2709,  
0.3485

 1.0831, 0.0657,  
0.4441

 159.9671, 0.2740,  
0.3471

 0.0000, 0.0000,  
0.0000

198.0125, 0.2766,

0.3459

241.6573, 0.2789,  
0.3448

■ 27.7532, 0.2439,  
0.3611

■ 27.7532, 0.2439,  
0.3611

■ 27.3608, 0.2403,  
0.3664

■ 28.2896, 0.2494,  
0.3559

■ 27.0932, 0.2385,  
0.3717

■ 28.9804, 0.2567,  
0.3507

■ 26.9143, 0.2380,  
0.3769

■ 29.8386, 0.2656,  
0.3458

■ 30.8750, 0.2759,  
0.3411

■ 32.0995, 0.2874,  
0.3368

■ 33.5213, 0.2997,  
0.3327

■ 35.1490, 0.3127,  
0.3290

■ 36.9905, 0.3259,  
0.3257

■ 39.0535, 0.3394,  
0.3227

# Harmonies

## Analogous

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



27.7532, 0.2929, 0.4137



27.7532, 0.2439, 0.3611



27.7532, 0.2146, 0.3026

# Triad

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



27.7532, 0.2439, 0.3611



27.7532, 0.2684, 0.2409



27.7532, 0.4271, 0.3846

# Complementary

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



27.7532, 0.2439, 0.3611



9.9633, 0.5077, 0.3065

# 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.



27.7532, 0.4215, 0.3398



27.7532, 0.2439, 0.3611



27.7532, 0.3247, 0.2613

# Square

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



27.7532, 0.2439, 0.3611



27.7532, 0.2279, 0.2394



27.7532, 0.3826, 0.2963



27.7532, 0.3996, 0.4212



# Rectangle

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



27.7532, 0.2439, 0.3611



27.7532, 0.2085, 0.2715



27.7532, 0.3826, 0.2963



27.7532, 0.4292, 0.3700

# Sweetspot

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



27.7543, 0.2439, 0.3611



57.9548, 0.2858, 0.3373



26.5365, 0.3139, 0.5412



12.5804, 0.2828, 0.3384



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.



27.7543, 0.2439, 0.3611



49.3774, 0.2390, 0.3693



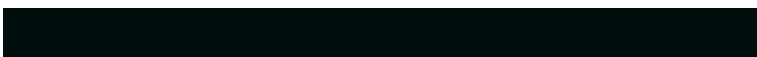
17.2438, 0.2158, 0.2548



7.4922, 0.3007, 0.3324



20.9689, 0.2379, 0.3764



0.3792, 0.2321, 0.3554



# Inverse Universe

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



9.9633, 0.5077, 0.3065



15.0103, 0.5719, 0.3099



14.2298, 0.4933, 0.3835



6.6617, 0.3261, 0.3256



5.8784, 0.6152, 0.3163

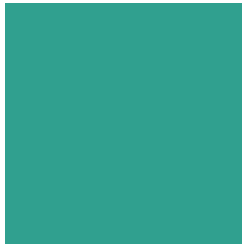


0.1092, 0.5363, 0.2728



# Previews

## White Background



This preview shows how the Yxy color 27.7532, 0.2439, 0.3611 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 27.7532, 0.2439, 0.3611 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

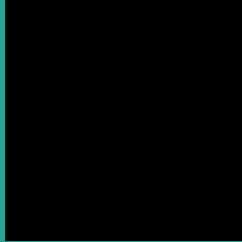
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.7532, 0.2439, 0.3611**

## **Background**



This preview shows how black text looks on a background with the Yxy color 27.7532, 0.2439, 0.3611.

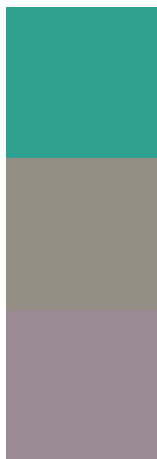


This preview shows how white text looks on a background with the Yxy color 27.7532, 0.2439, 0.3611.

# 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

27.7532, 0.2439, 0.3611

### Protanopia

27.3354, 0.3284, 0.3436

### Deuteranopia

27.1851, 0.3200, 0.3134



## Tritanopia

27.6336, 0.2321, 0.3058

# Trichromacy



## Original Color

27.7532, 0.2439, 0.3611



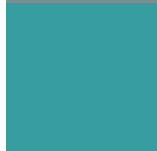
## Protanomaly

26.7458, 0.2874, 0.3502



## Deuteranomaly

26.2779, 0.2821, 0.3289



## Tritanomaly

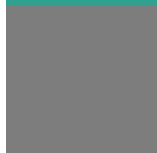
27.4928, 0.2356, 0.3233

# Monochromacy



## Original Color

27.7532, 0.2439, 0.3611



## Achromatopsia

20.5079, 0.3127, 0.3290



## Achromatomaly

22.3843, 0.2765, 0.3404

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.7532, 0.2439, 0.3611 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(48, 160, 143)` looks like.

```
.text, #text, p{  
  color:rgb(48, 160, 143)  
}
```

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(48, 160, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 160, 143) }
```

## Border

The CSS property to change the border of an element to Yxy 27.7532, 0.2439, 0.3611 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(48, 160, 143) }
```

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

```
.border{ border-color:rgb(48, 160, 143) }
```

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

Here you see how a box with a 4 pixel rgb(48, 160, 143) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 160, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 160, 143);  
box-shadow:4px 4px 4px 4px rgb(48, 160,  
143) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.7532, 0.2439, 0.3611 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 160, 143) }
```

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

```
.background{ background-color: rgb(48, 160,  
143) }
```

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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