

# Converting Colors

$Y_{xy}(33.0003, 0.2735, 0.3970)$

Have a look what the booklet for  
Yxy(33.0003, 0.2735, 0.3970)  
contains.

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# Color

**Yxy(33.1769, 0.2737, 0.3978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56AC85
RGB	86, 172, 133
RGB Percent	34%, 67%, 52%
CMY	0.6626, 0.3255, 0.4784
CMYK	0.50, 0.00, 0.23, 0.33
HSL	153°, 34%, 51%
HSV	153°, 50%, 67%
XYZ	22.8268, 33.1769, 27.3972
YIQ	141.8400, -38.7370, -30.3610

# Conversions

## Conversions Part 2

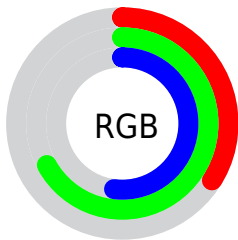
<b>Format</b>	<b>Color</b>
<b>RYB</b>	86, 142, 172
Decimal	5680261
CIELab	64.30, -35.34, 12.19
CIELCh	64, 37.387, 160.969
Yxy	33.1769, 0.2737, 0.3978
Android (android.graphics.Color)	4283870341 (0xFF56AC85)
YUV	141.8400, -4.3581, -48.9717
Hunter-Lab	57.5994, -30.0588, 12.1182

# Details

The Yxy color **33.1769, 0.2737, 0.3978** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **16.9120, 0.3856, 0.2712**, and the grayscale version is **27.0167, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.6947, 0.2821, 0.3834**, and **14.0512, 0.2601, 0.4245** is the 20% darker color. If you saturate the color by 10%, you get **32.2497, 0.2689, 0.4147**, and if you desaturate by 10%, it is **34.3193, 0.2799, 0.3817**.

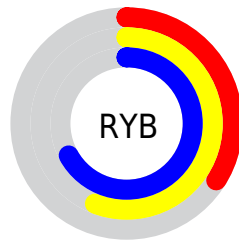
# Distribution



Red (34%)

Green (67%)

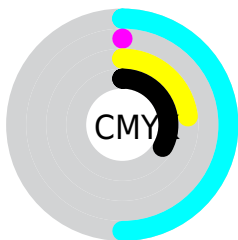
Blue (52%)



Red (34%)

Yellow (56%)

Blue (67%)

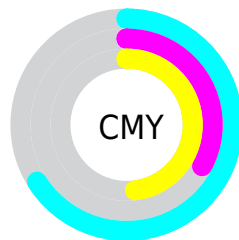


Cyan (50%)

Magenta (0%)

Yellow (23%)

Black (33%)



Cyan (66%)

Magenta (33%)


Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.1769, 0.2737, 0.3978 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 33.1769, 0.2737, 0.3978 by changing the saturation by 10% instead.




 33.1769, 0.2737,  
0.3978


 33.1769, 0.2737,  
0.3978


316.4461, 0.2950,  
0.3599


 22.2620, 0.2677,  
0.4086


 64.6516, 0.2819,  
0.3831

 14.0495, 0.2596,  
0.4234


 85.9802, 0.2849,  
0.3779

 8.1551, 0.2479,  
0.4447


 111.5488, 0.2873,  
0.3736

 4.1944, 0.2298,  
0.4783

 141.7419, 0.2893,  
0.3699

 1.7829, 0.1948,  
0.5408

176.9437, 0.2911,  
0.3669

 0.4765, 0.0000,  
1.0000

217.5388, 0.2926,

 0.0000, 0.0000,

0.3642

0.0000

263.9114, 0.2939,  
0.3619

■ 33.1769, 0.2737,  
0.3978

■ 33.1769, 0.2737,  
0.3978

■ 32.2497, 0.2689,  
0.4147

■ 34.3193, 0.2799,  
0.3817

■ 31.5190, 0.2658,  
0.4322

■ 35.6860, 0.2872,  
0.3667

■ 30.9694, 0.2646,  
0.4498


■ 37.2906, 0.2953,  
0.3528


■ 30.5815, 0.2654,  
0.4671


■ 39.1442, 0.3039,  
0.3403


■ 30.3132, 0.2677,  
0.4839

■ 41.2575, 0.3127,  
0.3290

 30.3127, 0.2677,  
0.4839

 43.6402, 0.3217,  
0.3189

 46.3018, 0.3305,  
0.3100

 49.2512, 0.3391,  
0.3022

 52.4969, 0.3475,  
0.2953

# Harmonies

## Analogous

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



33.1769, 0.3298, 0.4325



33.1769, 0.2737, 0.3978



33.1769, 0.2306, 0.3396

# Triad

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



33.1769, 0.2737, 0.3978



33.1769, 0.2397, 0.2373



33.1769, 0.4280, 0.3560

# Complementary

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



33.1769, 0.2737, 0.3978



16.9120, 0.3856, 0.2712

# 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.



33.1769, 0.3999, 0.3110



33.1769, 0.2737, 0.3978



33.1769, 0.2870, 0.2459

# Square

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



33.1769, 0.2737, 0.3978



33.1769, 0.2130, 0.2496



33.1769, 0.3462, 0.2721



33.1769, 0.4211, 0.3993



# Rectangle

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



33.1769, 0.2737, 0.3978



33.1769, 0.2140, 0.3013



33.1769, 0.3462, 0.2721



33.1769, 0.4224, 0.3407

# Sweetspot

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



33.1782, 0.2737, 0.3978



69.1795, 0.2993, 0.3468



34.6237, 0.3393, 0.4688



14.8882, 0.2975, 0.3493



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.



33.1782, 0.2737, 0.3978



58.3452, 0.2685, 0.4166



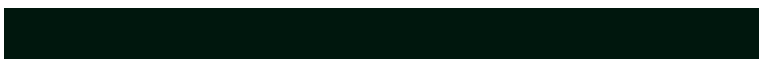
33.3837, 0.2475, 0.3241



9.0098, 0.3045, 0.3395



22.5693, 0.2673, 0.4822



0.6387, 0.2530, 0.4307



# Inverse Universe

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



16.9120, 0.3856, 0.2712



25.4114, 0.4111, 0.2607



16.5704, 0.4482, 0.3337



8.0735, 0.3218, 0.3188



6.9468, 0.5120, 0.2594



0.2044, 0.4399, 0.2197



# Previews

## White Background



This preview shows how the Yxy color 33.1769, 0.2737, 0.3978 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 33.1769, 0.2737, 0.3978 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

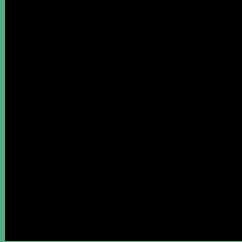
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.1769, 0.2737, 0.3978**

## Background



This preview shows how black text looks on a background with the Yxy color 33.1769, 0.2737, 0.3978.

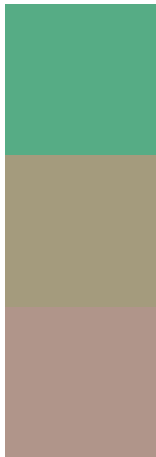


This preview shows how white text looks on a background with the Yxy color 33.1769, 0.2737, 0.3978.

# 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

33.1769, 0.2737, 0.3978

### Protanopia

32.8159, 0.3506, 0.3743

### Deuteranopia

32.5600, 0.3522, 0.3450



## Tritanopia

33.1798, 0.2499, 0.3080

# Trichromacy



**Original Color**

33.1769, 0.2737, 0.3978

**Protanomaly**

32.2825, 0.3178, 0.3829

**Deuteranomaly**

31.7312, 0.3180, 0.3626

**Tritanomaly**

32.9936, 0.2582, 0.3389

# Monochromacy



**Original Color**

33.1769, 0.2737, 0.3978

**Achromatopsia**

27.0498, 0.3127, 0.3290

**Achromatomaly**

28.7841, 0.2952, 0.3529

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.1769, 0.2737, 0.3978 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(86, 172, 133)` looks like.

```
.text, #text, p{  
    color:rgb(86, 172, 133)  
}
```

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(86, 172, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 172, 133) }
```

## Border

The CSS property to change the border of an element to Yxy 33.1769, 0.2737, 0.3978 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(86, 172, 133) }
```

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

```
.border{ border-color:rgb(86, 172, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 172, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(86, 172, 133); -webkit-box-shadow:4px 4px 4px 4px rgb(86, 172, 133); box-shadow:4px 4px 4px 4px rgb(86, 172, 133) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.1769, 0.2737, 0.3978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 172, 133) }
```

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

```
.background{ background-color: rgb(86, 172,  
133) }
```

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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