

# Converting Colors

$Y_{xy}(33.2821, 0.2735, 0.3777)$

Have a look what the booklet for  
Yxy(33.2821, 0.2735, 0.3777)  
contains.

<b>Yxy(33.1892, 0.2737, 0.3772)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(33.1892, 0.2737, 0.3772)**

# Conversions

## Conversions Part 1

Format	Color
Hex	60AA8E
RGB	96, 170, 142
RGB Percent	38%, 67%, 56%
CMY	0.6234, 0.3333, 0.4432
CMYK	0.44, 0.00, 0.16, 0.33
HSL	157°, 30%, 52%
HSV	157°, 44%, 67%
XYZ	24.0824, 33.1892, 30.7167
YIQ	144.6820, -35.1160, -24.3960

# Conversions

## Conversions Part 2

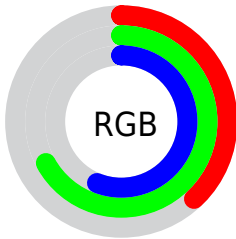
<b>Format</b>	<b>Color</b>
<b>RYB</b>	96, 142, 170
Decimal	6335118
CIELab	64.31, -29.79, 7.30
CIElCh	64, 30.671, 166.227
Yxy	33.1892, 0.2737, 0.3772
Android (android.graphics.Color)	4284525198 (0xFF60AA8E)
YUV	144.6820, -1.3222, -42.6941
Hunter-Lab	57.6101, -26.2003, 8.7146

# Details

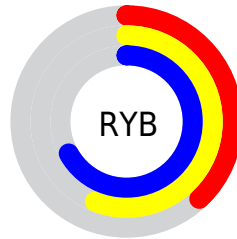
The Yxy color **33.1892, 0.2737, 0.3772** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **18.3763, 0.3806, 0.2865**, and the grayscale version is **28.1993, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.8623, 0.2814, 0.3670**, and **13.9875, 0.2600, 0.3932** is the 20% darker color. If you saturate the color by 10%, you get **32.1776, 0.2673, 0.3907**, and if you desaturate by 10%, it is **34.4141, 0.2814, 0.3645**.

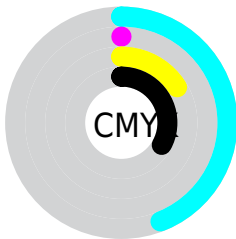
# Distribution



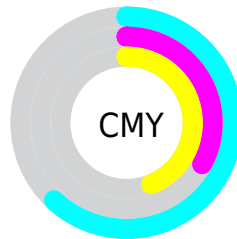
- Red (38%)
- Green (67%)
- Blue (56%)



- Red (38%)
- Yellow (56%)
- Blue (67%)



- Cyan (44%)
- Magenta (0%)
- Yellow (16%)
- Black (33%)




- Cyan (62%)
- Magenta (33%)
- Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.1892, 0.2737, 0.3772 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 33.1892, 0.2737, 0.3772 by changing the saturation by 10% instead.





 33.1892, 0.2737,  
0.3772


 33.1892, 0.2737,  
0.3772


316.5014, 0.2946,  
0.3510

 22.2714, 0.2680,  
0.3845


 64.6708, 0.2817,  
0.3671

 14.0565, 0.2603,  
0.3945


 86.0034, 0.2846,  
0.3635

 8.1600, 0.2494,  
0.4087


 111.5764, 0.2869,  
0.3605

 4.1975, 0.2329,  
0.4308

 141.7743, 0.2890,  
0.3580

 1.7846, 0.2049,  
0.4695

176.9813, 0.2907,  
0.3559

 0.4776, 0.0000,  
0.9805

217.5819, 0.2922,

 0.0000, 0.0000,

0.3540

0.0000

263.9605, 0.2935,  
0.3524

■ 33.1892, 0.2737,  
0.3772

■ 33.1892, 0.2737,  
0.3772

■ 32.1776, 0.2673,  
0.3907

■ 34.4141, 0.2814,  
0.3645

■ 31.3621, 0.2624,  
0.4048

■ 35.8602, 0.2901,  
0.3527

■ 30.7294, 0.2594,  
0.4193


■ 37.5400, 0.2994,  
0.3419


■ 30.2625, 0.2583,  
0.4338

■ 39.4638, 0.3092,  
0.3322

■ 29.9413, 0.2592,  
0.4482


■ 41.6412, 0.3192,  
0.3234

 29.7811, 0.2604,  
0.4574

 44.0816, 0.3292,  
0.3156

 46.7934, 0.3391,  
0.3088

 49.7851, 0.3487,  
0.3027

 53.0646, 0.3580,  
0.2974

# Harmonies

## Analogous

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



33.1892, 0.3194, 0.4097



33.1892, 0.2737, 0.3772



33.1892, 0.2401, 0.3298

# Triad

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



33.1892, 0.2737, 0.3772



33.1892, 0.2580, 0.2522



33.1892, 0.4085, 0.3595

# Complementary

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



33.1892, 0.2737, 0.3772



18.3763, 0.3806, 0.2865

# 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.



33.1892, 0.3900, 0.3212



33.1892, 0.2737, 0.3772



33.1892, 0.3001, 0.2621

# Square

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



33.1892, 0.2737, 0.3772



33.1892, 0.2319, 0.2601



33.1892, 0.3491, 0.2867



33.1892, 0.3986, 0.3940



# Rectangle

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



33.1892, 0.2737, 0.3772



33.1892, 0.2281, 0.2998



33.1892, 0.3491, 0.2867



33.1892, 0.4054, 0.3467

# Sweetspot

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



33.1905, 0.2737, 0.3772



68.2008, 0.2997, 0.3417



33.9090, 0.3311, 0.4517



15.0534, 0.2976, 0.3439



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.



33.1905, 0.2737, 0.3772



58.4767, 0.2676, 0.3899



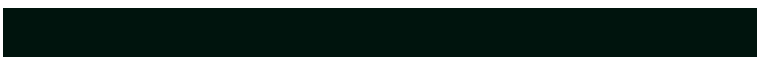
31.0110, 0.2525, 0.3145



8.4831, 0.3035, 0.3377



21.9186, 0.2600, 0.4559



0.5428, 0.2469, 0.4088



# Inverse Universe

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



18.3763, 0.3806, 0.2865



28.1235, 0.4034, 0.2780



19.4273, 0.4181, 0.3426



7.5876, 0.3229, 0.3205



6.5726, 0.5420, 0.2760



0.1699, 0.4546, 0.2278



# Previews

## White Background



This preview shows how the Yxy color 33.1892, 0.2737, 0.3772 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 33.1892, 0.2737, 0.3772 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

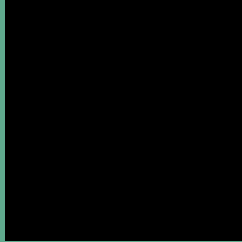
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.1892, 0.2737, 0.3772**

## Background



This preview shows how black text looks on a background with the Yxy color 33.1892, 0.2737, 0.3772.

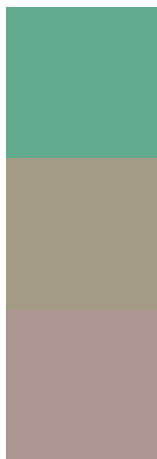


This preview shows how white text looks on a background with the Yxy color 33.1892, 0.2737, 0.3772.

# 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

33.1892, 0.2737, 0.3772

### Protanopia

32.9505, 0.3408, 0.3607

### Deuteranopia

32.7723, 0.3406, 0.3349



## Tritanopia

33.1279, 0.2541, 0.3081

# Trichromacy



**Original Color**

33.1892, 0.2737, 0.3772

**Protanomaly**

32.4367, 0.3129, 0.3660

**Deuteranomaly**

32.1780, 0.3118, 0.3479

**Tritanomaly**

33.1788, 0.2612, 0.3321

# Monochromacy



**Original Color**

33.1892, 0.2737, 0.3772

**Achromatopsia**

28.3149, 0.3127, 0.3290

**Achromatomaly**

29.6368, 0.2955, 0.3456

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.1892, 0.2737, 0.3772 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(96, 170, 142)` looks like.

```
.text, #text, p{  
    color:rgb(96, 170, 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(96, 170, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 170, 142) }
```

## Border

The CSS property to change the border of an element to Yxy 33.1892, 0.2737, 0.3772 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(96, 170, 142) }
```

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

```
.border{ border-color:rgb(96, 170, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(96, 170, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 170, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 170, 142);  
box-shadow:4px 4px 4px 4px rgb(96, 170,  
142) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 33.1892, 0.2737, 0.3772$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 170, 142) }
```

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

```
.background{ background-color: rgb(96, 170,  
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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