

# Converting Colors

$Y_{xy}(38.3953, 0.2813, 0.3447)$

Have a look what the booklet for  
Yxy(38.3953, 0.2813, 0.3447)  
contains.

<b>Yxy(38.3930, 0.2807, 0.3442)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(38.3930, 0.2807, 0.3442)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80B0A6
RGB	128, 176, 166
RGB Percent	50%, 69%, 65%
CMY	0.4981, 0.3098, 0.3490
CMYK	0.27, 0.00, 0.06, 0.31
HSL	168°, 23%, 60%
HSV	168°, 27%, 69%
XYZ	31.3100, 38.3930, 41.8397
YIQ	160.5080, -25.3980, -13.2860

# Conversions

## Conversions Part 2

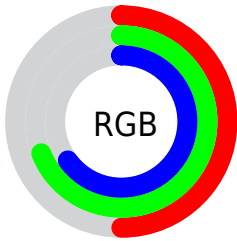
Format	Color
<a href="#">RYB</a>	<a href="#">128, 155, 176</a>
Decimal	<a href="#">8433830</a>
CIELab	<a href="#">68.31, -18.08, -0.04</a>
CIElCh	<a href="#">68, 18.085, 180.133</a>
Yxy	<a href="#">38.3930, 0.2807, 0.3442</a>
Android (android.graphics.Color)	<a href="#">4286623910 (0xFF80B0A6)</a>
YUV	<a href="#">160.5080, 2.7076, -28.5095</a>
Hunter-Lab	<a href="#">61.9621, -18.2359, 3.3381</a>

# Details

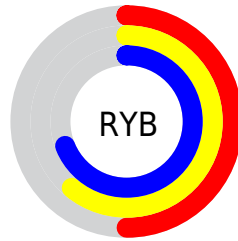
The Yxy color **38.3930, 0.2807, 0.3442** is a light color, and the websafe version is hex **669999**. A complement of this color would be **26.5025, 0.3585, 0.3145**, and the grayscale version is **35.3970, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.8788, 0.2869, 0.3416**, and **16.9586, 0.2710, 0.3487** is the 20% darker color. If you saturate the color by 10%, you get **37.0135, 0.2706, 0.3507**, and if you desaturate by 10%, it is **40.0162, 0.2919, 0.3382**.

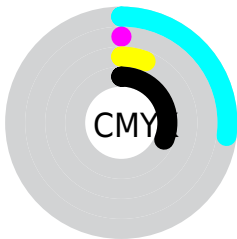
# Distribution



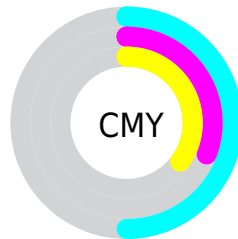
- Red (50%)
- Green (69%)
- Blue (65%)



- Red (50%)
- Yellow (61%)
- Blue (69%)



- Cyan (27%)
- Magenta (0%)
- Yellow (6%)
- Black (31%)




- Cyan (50%)
- Magenta (31%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.3930, 0.2807, 0.3442 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 38.3930, 0.2807, 0.3442 by changing the saturation by 10% instead.





 38.3930, 0.2807,  
0.3442


 38.3930, 0.2807,  
0.3442


339.3028, 0.2972,  
0.3364

 26.2878, 0.2764,  
0.3462


 72.7101, 0.2868,  
0.3413

 17.0391, 0.2708,  
0.3489

 95.6908, 0.2891,  
0.3402

 10.2624, 0.2632,  
0.3525


 123.0656, 0.2910,  
0.3393

 5.5733, 0.2522,  
0.3577

155.2187, 0.2926,  
0.3386

 2.5874, 0.2351,  
0.3658

192.5346, 0.2940,  
0.3379

 0.9203, 0.1835,  
0.3903

235.3976, 0.2952,

 0.0000, 0.0000,

0.3373

0.0000

284.1923, 0.2962,  
0.3368

■ 38.3930, 0.2807,  
0.3442

■ 38.3930, 0.2807,  
0.3442

■ 37.0135, 0.2706,  
0.3507

■ 40.0162, 0.2919,  
0.3382

■ 35.8608, 0.2617,  
0.3575

■ 41.8897, 0.3038,  
0.3327

■ 34.9230, 0.2544,  
0.3647

■ 44.0259, 0.3161,  
0.3277

■ 34.1854, 0.2489,  
0.3721

■ 46.4346, 0.3287,  
0.3232

■ 33.6314, 0.2452,  
0.3797

■ 49.1255, 0.3413,  
0.3192

■ 33.2415, 0.2435,  
0.3872

■ 52.1074, 0.3538,  
0.3157

■ 32.9871, 0.2434,  
0.3947

■ 55.3891, 0.3660,  
0.3126

■ 32.9268, 0.2435,  
0.3967

■ 56.2672, 0.3660,  
0.3090

■ 56.4354, 0.3628,  
0.3052

# Harmonies

## Analogous

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



38.3930, 0.3048, 0.3661



38.3930, 0.2807, 0.3442



38.3930, 0.2654, 0.3186

# Triad

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



38.3930, 0.2807, 0.3442



38.3930, 0.2922, 0.2855



38.3930, 0.3658, 0.3577

# Complementary

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



38.3930, 0.2807, 0.3442



26.5025, 0.3585, 0.3145

# 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.



38.3930, 0.3624, 0.3360



38.3930, 0.2807, 0.3442



38.3930, 0.3189, 0.2956

# Square

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



38.3930, 0.2807, 0.3442



38.3930, 0.2718, 0.2858



38.3930, 0.3450, 0.3137



38.3930, 0.3544, 0.3730



# Rectangle

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



38.3930, 0.2807, 0.3442



38.3930, 0.2618, 0.3036



38.3930, 0.3450, 0.3137



38.3930, 0.3664, 0.3509

# Sweetspot

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



38.3946, 0.2807, 0.3442



75.6586, 0.3027, 0.3331



38.0479, 0.3181, 0.4039



16.2823, 0.3009, 0.3339



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



38.3946, 0.2807, 0.3442



68.0040, 0.2742, 0.3482



33.7060, 0.2716, 0.3080



9.6006, 0.3013, 0.3338



24.1664, 0.2433, 0.3960



0.7680, 0.2375, 0.3751



# Inverse Universe

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



26.5025, 0.3585, 0.3145



42.6588, 0.3732, 0.3109



30.0155, 0.3653, 0.3491



8.5333, 0.3255, 0.3243



6.8758, 0.6021, 0.3090



0.2247, 0.5269, 0.2676



# Previews

## White Background



This preview shows how the Yxy color 38.3930, 0.2807, 0.3442 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

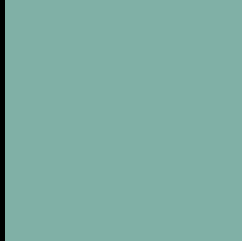
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.3930, 0.2807, 0.3442 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

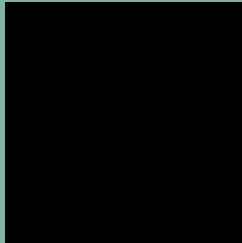
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.3930, 0.2807, 0.3442**

## Background



This preview shows how black text looks on a background with the Yxy color 38.3930, 0.2807, 0.3442.



This preview shows how white text looks on a background with the Yxy color 38.3930, 0.2807, 0.3442.

# 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

38.3930, 0.2807, 0.3442

### Protanopia

37.9944, 0.3218, 0.3361

### Deuteranopia

38.1781, 0.3247, 0.3182



## Tritanopia

38.3805, 0.2686, 0.3084

# Trichromacy



## Original Color

38.3930, 0.2807, 0.3442

## Protanomaly

37.9531, 0.3059, 0.3392

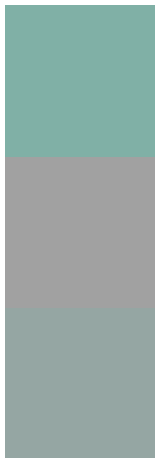
## Deuteranomaly

37.7810, 0.3073, 0.3261

## Tritanomaly

38.3521, 0.2735, 0.3214

# Monochromacy



## Original Color

38.3930, 0.2807, 0.3442

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

36.3063, 0.2998, 0.3334

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.3930, 0.2807, 0.3442 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(128, 176, 166)` looks like.

```
.text, #text, p{  
    color:rgb(128, 176, 166)  
}
```

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(128, 176, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 176, 166) }
```

## Border

The CSS property to change the border of an element to Yxy 38.3930, 0.2807, 0.3442 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(128, 176, 166) }
```

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

```
.border{ border-color:rgb(128, 176, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 176, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 176, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 176, 166);  
box-shadow:4px 4px 4px 4px rgb(128, 176,  
166) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.3930, 0.2807, 0.3442 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 176, 166) }
```

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

```
.background{ background-color: rgb(128,  
176, 166) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor