

# Converting Colors

$Y_{xy}(13.8882, 0.2381, 0.3118)$

Have a look what the booklet for  
Yxy(13.8882, 0.2381, 0.3118)  
contains.

<b>Yxy(13.8193, 0.2386, 0.3122)</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(13.8193, 0.2386, 0.3122)**

# Conversions

## Conversions Part 1

Format	Color
Hex	317178
RGB	49, 113, 120
RGB Percent	19%, 44%, 47%
CMY	0.8079, 0.5568, 0.5294
CMYK	0.59, 0.06, 0.00, 0.53
HSL	186°, 42%, 33%
HSV	186°, 59%, 47%
XYZ	10.5615, 13.8193, 19.8835
YIQ	94.6620, -40.3910, -11.3910

# Conversions

## Conversions Part 2

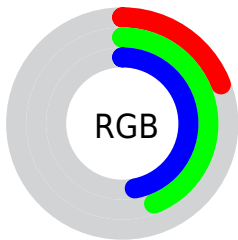
<b>Format</b>	<b>Color</b>
<b>RYB</b>	49, 83, 120
Decimal	3240312
CIELab	43.97, -18.12, -10.07
CIElCh	44, 20.731, 209.052
Yxy	13.8193, 0.2386, 0.3122
Android (android.graphics.Color)	4281430392 (0xFF317178)
YUV	94.6620, 12.4916, -40.0456
Hunter-Lab	37.1743, -14.3421, -5.6905

# Details

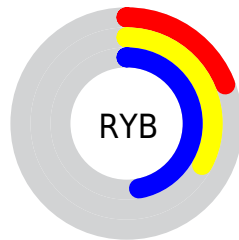
The Yxy color **13.8193, 0.2386, 0.3122** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **7.0422, 0.4737, 0.3434**, and the grayscale version is **11.3346, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.7724, 0.2567, 0.3175**, and **4.2485, 0.2170, 0.3014** is the 20% darker color. If you saturate the color by 10%, you get **13.2978, 0.2306, 0.3090**, and if you desaturate by 10%, it is **14.4247, 0.2482, 0.3154**.

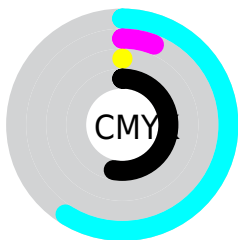
# Distribution



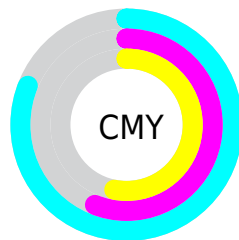
- Red (19%)
- Green (44%)
- Blue (47%)



- Red (19%)
- Yellow (33%)
- Blue (47%)



- Cyan (59%)
- Magenta (6%)
- Yellow (0%)
- Black (53%)




- Cyan (81%)
- Magenta (56%)
- Yellow (53%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 13.8193, 0.2386, 0.3122 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 13.8193, 0.2386, 0.3122 by changing the saturation by 10% instead.





 13.8193, 0.2386,  
0.3122

 13.8193, 0.2386,  
0.3122


 216.1038, 0.2821,  
0.3232


 7.9951, 0.2249,  
0.3080


 32.7681, 0.2563,  
0.3171


 4.0918, 0.2051,  
0.3012

 46.6614, 0.2624,  
0.3187


 1.7251, 0.1745,  
0.2889

 64.0132, 0.2672,  
0.3198

 0.4398, 0.0000,  
0.2683

 85.2080, 0.2713,  
0.3208

 0.0000, 0.0000,  
0.0000

 110.6300, 0.2746,  
0.3216

 140.6637, 0.2775,

0.3222

175.6935, 0.2800,  
0.3228

■ 13.8193, 0.2386,  
0.3122

■ 13.8193, 0.2386,  
0.3122

■ 13.2978, 0.2306,  
0.3090

■ 14.4247, 0.2482,  
0.3154

■ 12.8523, 0.2244,  
0.3057

■ 15.1184, 0.2593,  
0.3185

■ 12.4757, 0.2200,  
0.3024

■ 15.9059, 0.2717,  
0.3214

■ 12.1444, 0.2166,  
0.2992

■ 16.7923, 0.2851,  
0.3242

■ 12.1179, 0.2164,  
0.2989

■ 17.7818, 0.2993,  
0.3268

■ 18.8788, 0.3139,  
0.3292

■ 20.0872, 0.3288,  
0.3314

■ 21.4108, 0.3438,  
0.3333

■ 22.8531, 0.3586,  
0.3351

# Harmonies

## Analogous

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



13.8193, 0.2625, 0.3549



13.8193, 0.2386, 0.3122



13.8193, 0.2333, 0.2785

# Triad

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



13.8193, 0.2386, 0.3122



13.8193, 0.3204, 0.2761



13.8193, 0.3801, 0.3983

# Complementary

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



13.8193, 0.2386, 0.3122



7.0422, 0.4737, 0.3434

# 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.



13.8193, 0.3987, 0.3716



13.8193, 0.2386, 0.3122



13.8193, 0.3633, 0.3032

# Square

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



13.8193, 0.2386, 0.3122



13.8193, 0.2781, 0.2609



13.8193, 0.3928, 0.3372



13.8193, 0.3437, 0.4074



# Rectangle

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



13.8193, 0.2386, 0.3122



13.8193, 0.2405, 0.2649



13.8193, 0.3928, 0.3372



13.8193, 0.3887, 0.3908

# Sweetspot

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



13.8198, 0.2386, 0.3122



29.6526, 0.2861, 0.3244



14.3629, 0.2995, 0.4961



6.9331, 0.2828, 0.3238



62.0916, 0.3127, 0.3290



7.8288, 0.3127, 0.3290



# Same Dimension

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



13.8198, 0.2386, 0.3122



23.0909, 0.2282, 0.3078



7.5394, 0.2196, 0.2231



4.4481, 0.2994, 0.3268



13.2058, 0.2163, 0.2988



62.2939, 0.2159, 0.2971



# Inverse Universe

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



7.3808, 0.3319, 0.2071



10.9419, 0.3370, 0.1876



11.5977, 0.4268, 0.4127



4.0710, 0.3151, 0.3099



5.5400, 0.3465, 0.1682

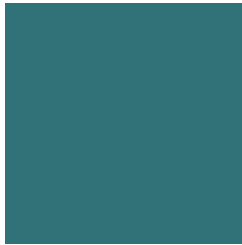


26.3558, 0.3480, 0.1691



# Previews

## White Background



This preview shows how the Yxy color 13.8193, 0.2386, 0.3122 looks on a white 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



# Black Background



This preview shows how the Yxy color 13.8193, 0.2386, 0.3122 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

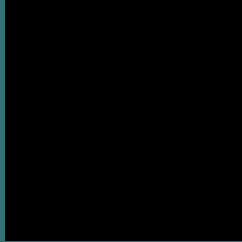
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

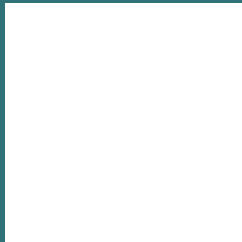
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 13.8193, 0.2386, 0.3122**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.8193, 0.2386, 0.3122.



This preview shows how white text looks on a background with the Yxy color 13.8193, 0.2386, 0.3122.

# 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

13.8193, 0.2386, 0.3122

### Protanopia

13.7175, 0.2985, 0.3076

### Deuteranopia

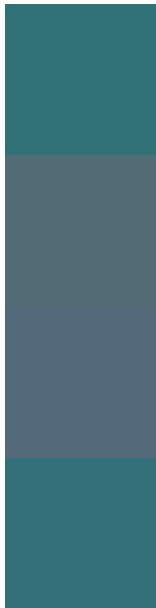
13.6805, 0.2888, 0.2835



## Tritanopia

13.8935, 0.2377, 0.3077

# Trichromacy



## Original Color

13.8193, 0.2386, 0.3122

## Protanomaly

13.6153, 0.2715, 0.3087

## Deuteranomaly

13.3931, 0.2659, 0.2914

## Tritanomaly

13.8688, 0.2385, 0.3100

# Monochromacy



## Original Color

13.8193, 0.2386, 0.3122

## Achromatopsia

11.4435, 0.3127, 0.3290

## Achromatomaly

12.1219, 0.2778, 0.3241

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.8193, 0.2386, 0.3122 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, 113, 120)` looks like.

```
.text, #text, p{  
  color:rgb(49, 113, 120)  
}
```

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, 113, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 113, 120) }
```

## Border

The CSS property to change the border of an element to Yxy 13.8193, 0.2386, 0.3122 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, 113, 120) }
```

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

```
.border{ border-color:rgb(49, 113, 120) }
```

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

Here you see how a box with a 4 pixel rgb(49, 113, 120) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 113, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 113, 120);  
box-shadow:4px 4px 4px 4px rgb(49, 113,  
120) }
```



# Background

The CSS property to change the background color of an element to Yxy 13.8193, 0.2386, 0.3122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 113, 120) }
```

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

```
.background{ background-color: rgb(49, 113,  
120) }
```

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**