

# Converting Colors

$Y_{xy}(19.7419, 0.2342, 0.3125)$

Have a look what the booklet for  
Yxy(19.7419, 0.2342, 0.3125)  
contains.

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# Color

**$Y_{xy}(19.7070, 0.2341, 0.3123)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	33868E
RGB	51, 134, 142
RGB Percent	20%, 53%, 56%
CMY	0.8001, 0.4745, 0.4431
CMYK	0.64, 0.06, 0.00, 0.44
HSL	185°, 47%, 38%
HSV	185°, 64%, 56%
XYZ	14.7724, 19.7070, 28.6234
YIQ	110.0950, -52.0360, -15.1080

# Conversions

## Conversions Part 2

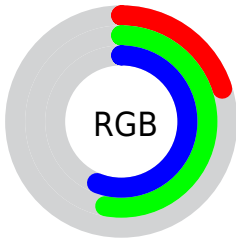
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 94, 142
Decimal	3376782
CIE Lab	51.50, -22.14, -11.73
CIE LCh	52, 25.056, 207.923
Yxy	19.7070, 0.2341, 0.3123
Android (android.graphics.Color)	4281566862 (0xFF33868E)
YUV	110.0950, 15.7292, -51.8263
Hunter-Lab	44.3926, -18.2882, -7.1542

# Details

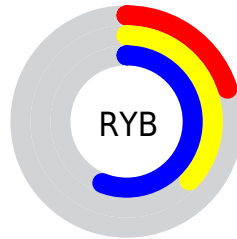
The Yxy color **19.7070, 0.2341, 0.3123** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **9.1169, 0.5003, 0.3425**, and the grayscale version is **15.5847, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.7143, 0.2507, 0.3157**, and **7.1134, 0.2176, 0.3034** is the 20% darker color. If you saturate the color by 10%, you get **19.0503, 0.2272, 0.3094**, and if you desaturate by 10%, it is **20.4820, 0.2428, 0.3152**.

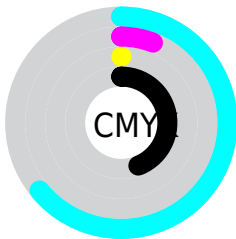
# Distribution



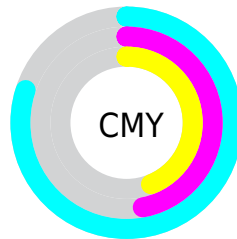
- Red (20%)
- Green (53%)
- Blue (56%)



- Red (20%)
- Yellow (37%)
- Blue (56%)



- Cyan (64%)
- Magenta (6%)
- Yellow (0%)
- Black (44%)



- Cyan (80%)
- Magenta (47%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.7070, 0.2341, 0.3123 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 19.7070, 0.2341, 0.3123 by changing the saturation by 10% instead.



19.7070, 0.2341,  
0.3123

19.7070, 0.2341,  
0.3123

250.3245, 0.2779,  
0.3229

12.1822, 0.2215,  
0.3086

42.9254, 0.2512,  
0.3169

6.8679, 0.2043,  
0.3029

59.3878, 0.2572,  
0.3184

3.3796, 0.1794,  
0.2935

79.5983, 0.2622,  
0.3195

1.3330, 0.1390,  
0.2765

103.9411, 0.2664,  
0.3205

0.1665, 0.0000,  
0.1425

132.8008, 0.2699,  
0.3213

0.0000, 0.0000,  
0.0000

166.5616, 0.2729,

0.3219

205.6081, 0.2756,  
0.3225

■ 19.7070, 0.2341,  
0.3123

■ 19.7070, 0.2341,  
0.3123

■ 19.0503, 0.2272,  
0.3094

■ 20.4820, 0.2428,  
0.3152

■ 18.4989, 0.2221,  
0.3064

■ 21.3823, 0.2531,  
0.3181

■ 18.0404, 0.2188,  
0.3035

■ 22.4170, 0.2649,  
0.3208

■ 17.7909, 0.2172,  
0.3018

■ 23.5939, 0.2779,  
0.3234

■ 24.9198, 0.2919,  
0.3259

■ 26.4013, 0.3065,  
0.3281

■ 28.0447, 0.3216,  
0.3302

■ 29.8557, 0.3369,  
0.3321

■ 31.8398, 0.3521,  
0.3337

# Harmonies

## Analogous

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



19.7070, 0.2602, 0.3585



19.7070, 0.2341, 0.3123



19.7070, 0.2278, 0.2758

# Triad

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



19.7070, 0.2341, 0.3123



19.7070, 0.3190, 0.2717



19.7070, 0.3859, 0.4023

# Complementary

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



19.7070, 0.2341, 0.3123



9.1169, 0.5003, 0.3425

# 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.



19.7070, 0.4053, 0.3729



19.7070, 0.2341, 0.3123



19.7070, 0.3654, 0.3001

# Square

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



19.7070, 0.2341, 0.3123



19.7070, 0.2740, 0.2560



19.7070, 0.3980, 0.3360



19.7070, 0.3474, 0.4135



# Rectangle

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



19.7070, 0.2341, 0.3123



19.7070, 0.2349, 0.2610



19.7070, 0.3980, 0.3360



19.7070, 0.3950, 0.3939

# Sweetspot

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



19.7077, 0.2341, 0.3123



42.6635, 0.2844, 0.3246



20.3656, 0.2987, 0.5147



9.3994, 0.2809, 0.3240



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290



# Same Dimension

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



19.7077, 0.2341, 0.3123



33.1260, 0.2247, 0.3080



9.7851, 0.2107, 0.2101



6.0363, 0.2990, 0.3270



15.9825, 0.2172, 0.3019



0.1682, 0.2212, 0.3163



# Inverse Universe

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



9.8383, 0.3325, 0.1965



14.7594, 0.3374, 0.1786



15.9077, 0.4405, 0.4193



5.5030, 0.3150, 0.3092



6.5998, 0.3437, 0.1667

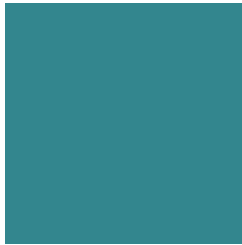


0.0647, 0.3313, 0.1599



# Previews

## White Background



This preview shows how the Yxy color 19.7070, 0.2341, 0.3123 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 19.7070, 0.2341, 0.3123 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

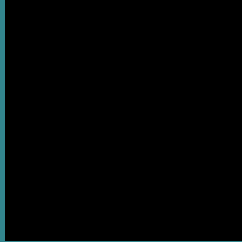
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 19.7070, 0.2341, 0.3123**

## Background



This preview shows how black text looks on a background with the Yxy color 19.7070, 0.2341, 0.3123.



This preview shows how white text looks on a background with the Yxy color 19.7070, 0.2341, 0.3123.

# 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

19.7070, 0.2341, 0.3123

### Protanopia

19.4609, 0.2982, 0.3051

### Deuteranopia

19.4489, 0.2888, 0.2826



## Tritanopia

19.7939, 0.2333, 0.3084

# Trichromacy



## Original Color

19.7070, 0.2341, 0.3123

## Protanomaly

19.2146, 0.2688, 0.3074

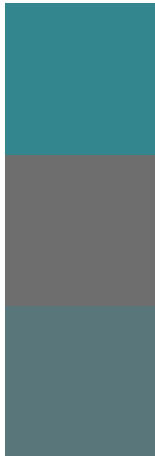
## Deuteranomaly

18.9703, 0.2630, 0.2906

## Tritanomaly

19.7634, 0.2340, 0.3104

# Monochromacy



## Original Color

19.7070, 0.2341, 0.3123

## Achromatopsia

15.5926, 0.3127, 0.3290

## Achromatomaly

16.7226, 0.2745, 0.3226

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.7070, 0.2341, 0.3123 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(51, 134, 142)` looks like.

```
.text, #text, p{  
    color:rgb(51, 134, 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(51, 134, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 134, 142) }
```

## Border

The CSS property to change the border of an element to Yxy 19.7070, 0.2341, 0.3123 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(51, 134, 142) }
```

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

```
.border{ border-color:rgb(51, 134, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 134, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 134, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 134, 142);  
box-shadow:4px 4px 4px 4px rgb(51, 134,  
142) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.7070, 0.2341, 0.3123 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 134, 142) }
```

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

```
.background{ background-color: rgb(51, 134,  
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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