

# Converting Colors

$Y_{xy}(19.5710, 0.2927, 0.3434)$

Have a look what the booklet for  
Yxy(19.5710, 0.2927, 0.3434)  
contains.

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# Color

**Yxy(19.6780, 0.2927, 0.3448)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	678078
RGB	103, 128, 120
RGB Percent	40%, 50%, 47%
CMY	0.5960, 0.4980, 0.5294
CMYK	0.20, 0.00, 0.06, 0.50
HSL	161°, 11%, 45%
HSV	161°, 20%, 50%
XYZ	16.7046, 19.6780, 20.6882
YIQ	119.6130, -12.3320, -7.7880

# Conversions

## Conversions Part 2

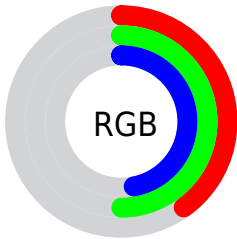
Format	Color
<b>RYB</b>	103, 118, 128
Decimal	6783096
CIELab	51.47, -10.75, 1.35
CIELCh	51, 10.837, 172.839
Yxy	19.6780, 0.2927, 0.3448
Android (android.graphics.Color)	4284973176 (0xFF678078)
YUV	119.6130, 0.1908, -14.5696
Hunter-Lab	44.3599, -10.4120, 3.4008

# Details

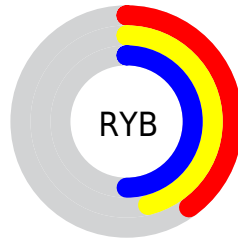
The Yxy color **19.6780, 0.2927, 0.3448** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **15.4415, 0.3378, 0.3138**, and the grayscale version is **18.6563, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.8963, 0.2971, 0.3417**, and **6.8721, 0.2830, 0.3510** is the 20% darker color. If you saturate the color by 10%, you get **18.8814, 0.2832, 0.3541**, and if you desaturate by 10%, it is **20.5964, 0.3028, 0.3363**.

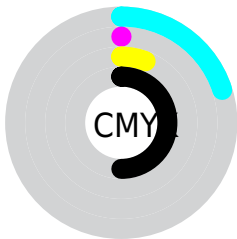
# Distribution



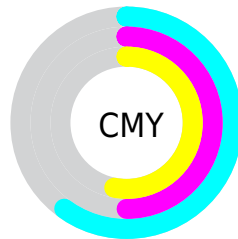
- Red (40%)
- Green (50%)
- Blue (47%)



- Red (40%)
- Yellow (46%)
- Blue (50%)



- Cyan (20%)
- Magenta (0%)
- Yellow (6%)
- Black (50%)



- Cyan (60%)
- Magenta (50%)
- Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.6780, 0.2927, 0.3448 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 19.6780, 0.2927, 0.3448 by changing the saturation by 10% instead.



■ 19.6780, 0.2927,  
0.3448

■ 19.6780, 0.2927,  
0.3448

250.1666, 0.3042,  
0.3357

■ 12.1612, 0.2892,  
0.3476

■ 42.8767, 0.2973,  
0.3411

■ 6.8536, 0.2842,  
0.3516

■ 59.3273, 0.2989,  
0.3399

■ 3.3707, 0.2766,  
0.3578

■ 79.5247, 0.3002,  
0.3389

■ 1.3282, 0.2633,  
0.3686

■ 103.8532, 0.3012,  
0.3380

■ 0.1629, 0.0000,  
0.6627

132.6973, 0.3021,  
0.3373

■ 0.0000, 0.0000,  
0.0000

166.4413, 0.3029,

0.3367

205.4696, 0.3036,  
0.3362

■ 19.6780, 0.2927,  
0.3448

■ 19.6780, 0.2927,  
0.3448

■ 18.8814, 0.2832,  
0.3541

■ 20.5964, 0.3028,  
0.3363

■ 18.1989, 0.2746,  
0.3641

■ 21.6390, 0.3132,  
0.3286

■ 17.6255, 0.2671,  
0.3747

■ 22.8115, 0.3238,  
0.3217

■ 17.1550, 0.2611,  
0.3859

■ 24.1181, 0.3344,  
0.3156

■ 16.7805, 0.2566,  
0.3975

■ 25.5633, 0.3449,  
0.3101

■ 16.4944, 0.2540,  
0.4093

■ 27.1510, 0.3551,  
0.3053

■ 16.2877, 0.2532,  
0.4211

■ 28.8850, 0.3650,  
0.3011

■ 16.1339, 0.2537,  
0.4329

■ 30.7691, 0.3745,  
0.2974

■ 16.1266, 0.2537,  
0.4334

■ 32.8070, 0.3836,  
0.2942

# Harmonies

## Analogous

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



19.6780, 0.3119, 0.3593



19.6780, 0.2927, 0.3448



19.6780, 0.2790, 0.3260

# Triad

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



19.6780, 0.2927, 0.3448



19.6780, 0.2930, 0.2953



19.6780, 0.3528, 0.3472

# Complementary

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



19.6780, 0.2927, 0.3448



15.4415, 0.3378, 0.3138

# 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.



19.6780, 0.3475, 0.3304



19.6780, 0.2927, 0.3448



19.6780, 0.3125, 0.3011

# Square

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



19.6780, 0.2927, 0.3448



19.6780, 0.2792, 0.2979



19.6780, 0.3325, 0.3138



19.6780, 0.3470, 0.3600



# Rectangle

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



19.6780, 0.2927, 0.3448



19.6780, 0.2747, 0.3141



19.6780, 0.3325, 0.3138



19.6780, 0.3523, 0.3418

# Sweetspot

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



19.6788, 0.2927, 0.3448



36.8590, 0.3063, 0.3336



19.8196, 0.3202, 0.3785



8.6079, 0.3057, 0.3341



65.5931, 0.3127, 0.3290



8.8982, 0.3127, 0.3290



# Same Dimension

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



19.6788, 0.2927, 0.3448



34.0601, 0.2888, 0.3484



18.8172, 0.2843, 0.3207



4.8642, 0.3032, 0.3360



15.9914, 0.2537, 0.4334



0.0000, 0.0000, 0.0000



# Inverse Universe

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



15.4415, 0.3378, 0.3138



25.3097, 0.3442, 0.3105



16.1223, 0.3477, 0.3371



4.3652, 0.3232, 0.3221



4.7093, 0.5612, 0.2865



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the Yxy color 19.6780, 0.2927, 0.3448 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 19.6780, 0.2927, 0.3448 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

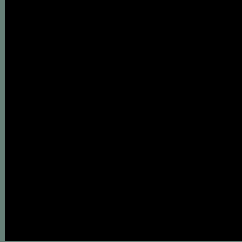
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 19.6780, 0.2927, 0.3448**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.6780, 0.2927, 0.3448.



This preview shows how white text looks on a background with the Yxy color 19.6780, 0.2927, 0.3448.

# 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

19.6780, 0.2927, 0.3448

### Protanopia

19.6390, 0.3235, 0.3383

### Deuteranopia

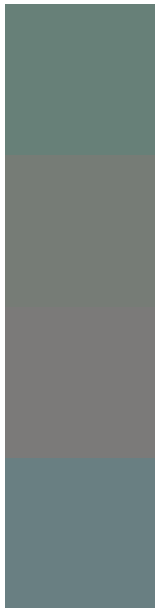
19.4303, 0.3283, 0.3218



## Tritanopia

19.7635, 0.2799, 0.3099

# Trichromacy



## Original Color

19.6780, 0.2927, 0.3448

## Protanomaly

19.5749, 0.3122, 0.3405

## Deuteranomaly

19.5105, 0.3151, 0.3309

## Tritanomaly

19.7937, 0.2848, 0.3231

# Monochromacy



## Original Color

19.6780, 0.2927, 0.3448

## Achromatopsia

18.7821, 0.3127, 0.3290

## Achromatomaly

19.0994, 0.3052, 0.3348

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.6780, 0.2927, 0.3448 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(103, 128, 120)` looks like.

```
.text, #text, p{  
    color:rgb(103, 128, 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(103, 128, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 128, 120) }
```

## Border

The CSS property to change the border of an element to Yxy 19.6780, 0.2927, 0.3448 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(103, 128, 120) }
```

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

```
.border{ border-color:rgb(103, 128, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 128, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 128, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 128, 120);  
box-shadow:4px 4px 4px 4px rgb(103, 128,  
120) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.6780, 0.2927, 0.3448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 128, 120) }
```

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

```
.background{ background-color: rgb(103,  
128, 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](#).

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