

# Converting Colors

$Y_{xy}(17.5758, 0.3132, 0.3714)$

Have a look what the booklet for  
Yxy(17.5758, 0.3132, 0.3714)  
contains.

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# Color

**Yxy(17.4979, 0.3132, 0.3708)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	677965
RGB	103, 121, 101
RGB Percent	40%, 47%, 40%
CMY	0.5961, 0.5255, 0.6039
CMYK	0.15, 0.00, 0.17, 0.53
HSL	114°, 9%, 44%
HSV	114°, 17%, 47%
XYZ	14.7798, 17.4979, 14.9119
YIQ	113.3380, -4.3080, -10.0360

# Conversions

## Conversions Part 2

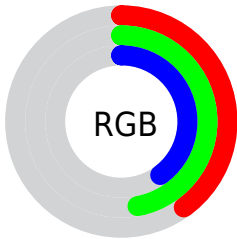
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	101, 121, 119
Decimal	6781285
CIE Lab	48.88, -10.79, 8.77
CIE LCh	49, 13.905, 140.881
Yxy	17.4979, 0.3132, 0.3708
Android (android.graphics.Color)	4284971365 (0xFF677965)
YUV	113.3380, -6.0826, -9.0664
Hunter-Lab	41.8305, -10.1348, 8.1454

# Details

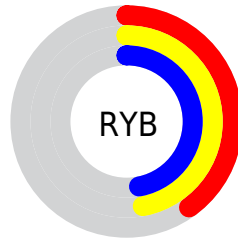
The Yxy color **17.4979, 0.3132, 0.3708** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.6122, 0.3118, 0.2899**, and the grayscale version is **16.6389, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.0242, 0.3130, 0.3600**, and **5.7418, 0.3136, 0.3903** is the 20% darker color. If you saturate the color by 10%, you get **16.6758, 0.3132, 0.3999**, and if you desaturate by 10%, it is **18.4405, 0.3130, 0.3445**.

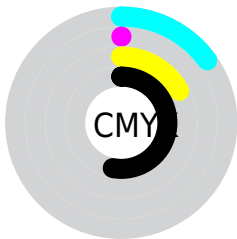
# Distribution



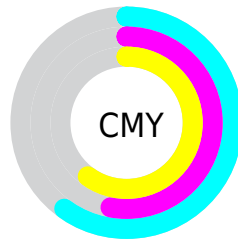
- Red (40%)
- Green (47%)
- Blue (40%)



- Red (40%)
- Yellow (47%)
- Blue (47%)



- Cyan (15%)
- Magenta (0%)
- Yellow (17%)
- Black (53%)



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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 17.4979, 0.3132, 0.3708 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 17.4979, 0.3132, 0.3708 by changing the saturation by 10% instead.



■ 17.4979, 0.3132,  
0.3708

■ 17.4979, 0.3132,  
0.3708

■ 238.0255, 0.3132,  
0.3460

■ 10.5901, 0.3130,  
0.3789

■ 39.1799, 0.3133,  
0.3606

■ 5.7919, 0.3127,  
0.3908

■ 54.7229, 0.3133,  
0.3571

■ 2.7190, 0.3117,  
0.4101

■ 73.9130, 0.3133,  
0.3544

■ 0.9868, 0.3173,  
0.4666

■ 97.1348, 0.3133,  
0.3521

■ 0.0000, 0.0000,  
0.0000

■ 124.7725, 0.3132,  
0.3502

■ 157.2106, 0.3132,

0.3486

194.8335, 0.3132,  
0.3472

■ 17.4979, 0.3132,  
0.3708

■ 17.4979, 0.3132,  
0.3708

■ 16.6758, 0.3132,  
0.3999

■ 18.4405, 0.3130,  
0.3445

■ 15.9670, 0.3130,  
0.4315

■ 19.5056, 0.3126,  
0.3212

■ 15.3674, 0.3123,  
0.4646

■ 20.6985, 0.3121,  
0.3008

■ 14.8714, 0.3113,  
0.4978

■ 22.0229, 0.3115,  
0.2829

■ 14.4732, 0.3098,  
0.5293

■ 23.4830, 0.3109,  
0.2673

■ 14.1662, 0.3080,  
0.5566

■ 25.0822, 0.3103,  
0.2538

■ 13.9431, 0.3058,  
0.5779

■ 26.8242, 0.3097,  
0.2421

■ 13.7934, 0.3038,  
0.5926

■ 28.7125, 0.3092,  
0.2319

■ 13.7540, 0.3035,  
0.5972

■ 30.7503, 0.3086,  
0.2230

# Harmonies

## Analogous

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



17.4979, 0.3396, 0.3770



17.4979, 0.3132, 0.3708



17.4979, 0.2875, 0.3517

# Triad

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



17.4979, 0.3132, 0.3708



17.4979, 0.2676, 0.2883



17.4979, 0.3583, 0.3290

# Complementary

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



17.4979, 0.3132, 0.3708



14.6122, 0.3118, 0.2899

# 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.



17.4979, 0.3375, 0.3075



17.4979, 0.3132, 0.3708



17.4979, 0.2850, 0.2844

# Square

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



17.4979, 0.3132, 0.3708



17.4979, 0.2618, 0.3031



17.4979, 0.3104, 0.2915



17.4979, 0.3664, 0.3514



# Rectangle

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



17.4979, 0.3132, 0.3708



17.4979, 0.2740, 0.3350



17.4979, 0.3104, 0.2915



17.4979, 0.3525, 0.3215

# Sweetspot

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



17.4986, 0.3132, 0.3708



33.2737, 0.3129, 0.3411



18.1994, 0.3368, 0.3642



7.5847, 0.3129, 0.3425



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.



17.4986, 0.3132, 0.3708



30.7230, 0.3132, 0.3820



17.5469, 0.3019, 0.3539



4.4673, 0.3130, 0.3510



14.7359, 0.3034, 0.5973



70.1120, 0.3018, 0.5985



# Inverse Universe

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



14.6122, 0.3118, 0.2899



24.4808, 0.3114, 0.2802



14.5663, 0.3254, 0.3053



4.0582, 0.3123, 0.3078



4.9580, 0.2968, 0.1409



23.4409, 0.2955, 0.1402



# Previews

## White Background



This preview shows how the Yxy color 17.4979, 0.3132, 0.3708 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 17.4979, 0.3132, 0.3708 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

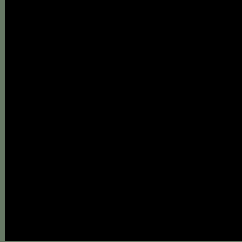
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

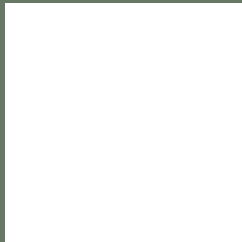
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 17.4979, 0.3132, 0.3708**

## **Background**



This preview shows how black text looks on a background with the Yxy color 17.4979, 0.3132, 0.3708.



This preview shows how white text looks on a background with the Yxy color 17.4979, 0.3132, 0.3708.

# 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

17.4979, 0.3132, 0.3708

### Protanopia

17.5102, 0.3429, 0.3644

### Deuteranopia

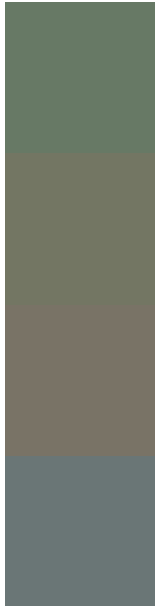
17.4731, 0.3516, 0.3460



## Tritanopia

17.3807, 0.2892, 0.3092

# Trichromacy



## Original Color

17.4979, 0.3132, 0.3708

## Protanomaly

17.5026, 0.3316, 0.3673

## Deuteranomaly

17.2857, 0.3368, 0.3546

## Tritanomaly

17.3290, 0.2979, 0.3290

# Monochromacy



## Original Color

17.4979, 0.3132, 0.3708

## Achromatopsia

16.5132, 0.3127, 0.3290

## Achromatomaly

16.8461, 0.3120, 0.3433

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 17.4979, 0.3132, 0.3708 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, 121, 101)` looks like.

```
.text, #text, p{  
    color:rgb(103, 121, 101)  
}
```

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, 121, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 121, 101) }
```

## Border

The CSS property to change the border of an element to Yxy 17.4979, 0.3132, 0.3708 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, 121, 101) }
```

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

```
.border{ border-color:rgb(103, 121, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 121, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 121, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 121, 101);  
box-shadow:4px 4px 4px 4px rgb(103, 121,  
101) }
```



# Background

The CSS property to change the background color of an element to Yxy 17.4979, 0.3132, 0.3708 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 121, 101) }
```

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

```
.background{ background-color: rgb(103,  
121, 101) }
```

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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