

# Converting Colors

$Y_{xy}(40.8332, 0.3302, 0.3736)$

Have a look what the booklet for  
Yxy(40.8332, 0.3302, 0.3736)  
contains.

<b>Yxy(40.7806, 0.3304, 0.3734)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(40.7806, 0.3304, 0.3734)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6AF90
RGB	166, 175, 144
RGB Percent	65%, 69%, 56%
CMY	0.3491, 0.3137, 0.4353
CMYK	0.05, 0.00, 0.18, 0.31
HSL	77°, 16%, 63%
HSV	77°, 18%, 69%
XYZ	36.0844, 40.7806, 32.3493
YIQ	168.7750, 4.5870, -11.5490

# Conversions

## Conversions Part 2

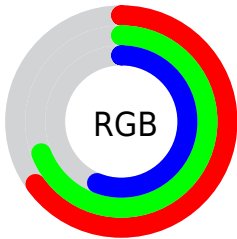
Format	Color
<b>RYB</b>	144, 175, 153
Decimal	10923920
CIELab	70.02, -8.74, 14.86
CIELCh	70, 17.239, 120.458
Yxy	40.7806, 0.3304, 0.3734
Android (android.graphics.Color)	4289114000 (0xFFA6AF90)
YUV	168.7750, -12.2141, -2.4337
Hunter-Lab	63.8597, -10.8917, 14.6674

# Details

The Yxy color **40.7806, 0.3304, 0.3734** is a light color, and the websafe version is hex **999966**. A complement of this color would be **29.8134, 0.2928, 0.2830**, and the grayscale version is **39.6173, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.6012, 0.3269, 0.3651**, and **18.5515, 0.3348, 0.3871** is the 20% darker color. If you saturate the color by 10%, you get **39.7478, 0.3403, 0.4001**, and if you desaturate by 10%, it is **41.9218, 0.3204, 0.3478**.

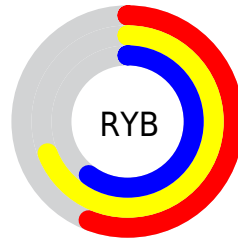
# Distribution



Red (65%)

Green (69%)

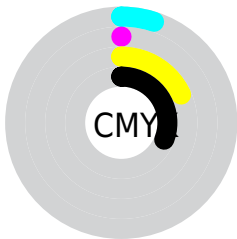
Blue (56%)



Red (56%)

Yellow (69%)

Blue (60%)

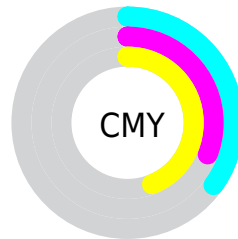


Cyan (5%)

Magenta (0%)

Yellow (18%)

Black (31%)



Cyan (35%)

Magenta (31%)

Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.7806, 0.3304, 0.3734 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 40.7806, 0.3304, 0.3734 by changing the saturation by 10% instead.





 40.7806, 0.3304,  
0.3734

 40.7806, 0.3304,  
0.3734


349.4028, 0.3216,  
0.3503

 28.1477, 0.3326,  
0.3795


 76.3507, 0.3272,  
0.3648

 18.4370, 0.3353,  
0.3874


 100.0567, 0.3260,  
0.3616

 11.2642, 0.3389,  
0.3983


128.2226, 0.3250,  
0.3590

 6.2448, 0.3438,  
0.4141

161.2326, 0.3241,  
0.3567

 2.9945, 0.3506,  
0.4389

199.4712, 0.3234,  
0.3548

 1.1289, 0.3932,  
0.5277

243.3229, 0.3227,

 0.0024, 0.0000,

0.3531

1.0000

293.1720, 0.3221,  
0.3516

0.0000, 0.0000,  
0.0000

40.7806, 0.3304,  
0.3734

40.7806, 0.3304,  
0.3734

39.7478, 0.3403,  
0.4001

41.9218, 0.3204,  
0.3478

38.8140, 0.3496,  
0.4272

43.1698, 0.3105,  
0.3237

37.9766, 0.3578,  
0.4538

44.5301, 0.3010,  
0.3013

37.2309, 0.3646,  
0.4789

46.0060, 0.2919,  
0.2809

36.5716, 0.3694,  
0.5012

47.6009, 0.2834,  
0.2623

■ 35.9930, 0.3718,  
0.5198

■ 49.3177, 0.2755,  
0.2455

■ 35.4881, 0.3718,  
0.5338

■ 50.3969, 0.2754,  
0.2407

■ 35.0464, 0.3695,  
0.5433

■ 51.1187, 0.2792,  
0.2417

■ 34.9508, 0.3689,  
0.5453

■ 51.8643, 0.2830,  
0.2426

# Harmonies

## Analogous

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



40.7806, 0.3515, 0.3702



40.7806, 0.3304, 0.3734



40.7806, 0.3051, 0.3634

# Triad

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



40.7806, 0.3304, 0.3734



40.7806, 0.2654, 0.2994



40.7806, 0.3431, 0.3150

# Complementary

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



40.7806, 0.3304, 0.3734



29.8134, 0.2928, 0.2830

# 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.



40.7806, 0.3188, 0.2978



40.7806, 0.3304, 0.3734



40.7806, 0.2745, 0.2885

# Square

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



40.7806, 0.3304, 0.3734



40.7806, 0.2683, 0.3191



40.7806, 0.2938, 0.2882



40.7806, 0.3592, 0.3359



# Rectangle

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



40.7806, 0.3304, 0.3734



40.7806, 0.2894, 0.3505



40.7806, 0.2938, 0.2882



40.7806, 0.3356, 0.3086

# Sweetspot

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



40.7824, 0.3304, 0.3734



75.6384, 0.3177, 0.3412



33.8386, 0.3441, 0.3417



16.7781, 0.3184, 0.3429



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.



40.7824, 0.3304, 0.3734



72.3323, 0.3340, 0.3830



39.2301, 0.3165, 0.3754



9.2112, 0.3219, 0.3517



25.0577, 0.3695, 0.5448



0.7233, 0.3853, 0.5323



# Inverse Universe

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



29.8134, 0.2928, 0.2830



49.2613, 0.2881, 0.2726



31.3950, 0.3079, 0.2850



7.8661, 0.3029, 0.3059



2.7487, 0.1705, 0.0713



0.1048, 0.2054, 0.0905



# Previews

## White Background



This preview shows how the Yxy color 40.7806, 0.3304, 0.3734 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

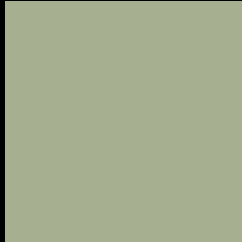
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.7806, 0.3304, 0.3734 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

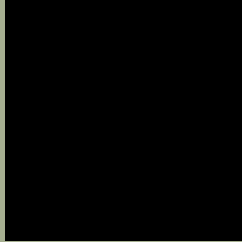
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

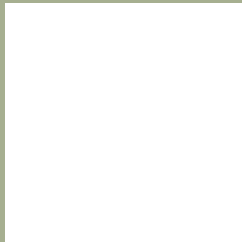
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.7806, 0.3304, 0.3734**

## Background



This preview shows how black text looks on a background with the Yxy color 40.7806, 0.3304, 0.3734.



This preview shows how white text looks on a background with the Yxy color 40.7806, 0.3304, 0.3734.

# 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

40.7806, 0.3304, 0.3734

### Protanopia

40.9026, 0.3473, 0.3690

### Deuteranopia

40.7214, 0.3601, 0.3541



## Tritanopia

40.9390, 0.3038, 0.3114

# Trichromacy



## Original Color

40.7806, 0.3304, 0.3734

## Protanomaly

40.7183, 0.3413, 0.3695

## Deuteranomaly

40.7346, 0.3490, 0.3617

## Tritanomaly

40.9157, 0.3134, 0.3332

# Monochromacy



## Original Color

40.7806, 0.3304, 0.3734

## Achromatopsia

39.6755, 0.3127, 0.3290

## Achromatomaly

39.9887, 0.3193, 0.3445

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.7806, 0.3304, 0.3734 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(166, 175, 144)` looks like.

```
.text, #text, p{  
    color:rgb(166, 175, 144)  
}
```

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(166, 175, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 175, 144) }
```

## Border

The CSS property to change the border of an element to Yxy 40.7806, 0.3304, 0.3734 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(166, 175, 144) }
```

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

```
.border{ border-color:rgb(166, 175, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 175, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 175, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 175, 144);  
box-shadow:4px 4px 4px 4px rgb(166, 175,  
144) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.7806, 0.3304, 0.3734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 175, 144) }
```

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

```
.background{ background-color: rgb(166,  
175, 144) }
```

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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