

# Converting Colors

$Yxy(40.7824, 0.4084, 0.4084)$

Have a look what the booklet for  
Yxy(40.7824, 0.4084, 0.4084)  
contains.

<b>Yxy(40.7069, 0.4086, 0.4081)</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(40.7069, 0.4086, 0.4081)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CCA566
RGB	204, 165, 102
RGB Percent	80%, 65%, 40%
CMY	0.2000, 0.3529, 0.5999
CMYK	0.00, 0.19, 0.50, 0.20
HSL	37°, 50%, 60%
HSV	37°, 50%, 80%
XYZ	40.7568, 40.7069, 18.2837
YIQ	169.4790, 43.4670, -11.3250

# Conversions

## Conversions Part 2

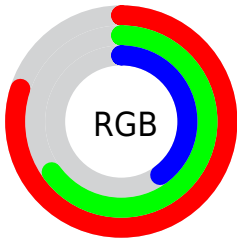
Format	Color
<a href="#">RYB</a>	<a href="#">165, 204, 102</a>
Decimal	<a href="#">13411686</a>
CIELab	<a href="#">69.97, 6.48, 37.88</a>
CIELCh	<a href="#">70, 38.435, 80.291</a>
Yxy	<a href="#">40.7069, 0.4086, 0.4081</a>
Android (android.graphics.Color)	<a href="#">4291601766 (0xFFCCA566)</a>
YUV	<a href="#">169.4790, -33.2671, 30.2749</a>
Hunter-Lab	<a href="#">63.8020, 2.3726, 27.6707</a>

# Details

The Yxy color **40.7069, 0.4086, 0.4081** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **26.2412, 0.2293, 0.2323**, and the grayscale version is **40.0798, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.7795, 0.3852, 0.3965**, and **18.2703, 0.4345, 0.4272** is the 20% darker color. If you saturate the color by 10%, you get **37.6234, 0.4313, 0.4215**, and if you desaturate by 10%, it is **44.0656, 0.3864, 0.3928**.

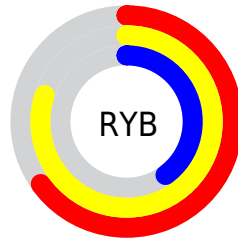
# Distribution



Red (80%)

Green (65%)

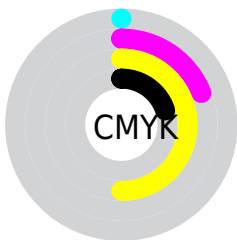
Blue (40%)



Red (65%)

Yellow (80%)

Blue (40%)

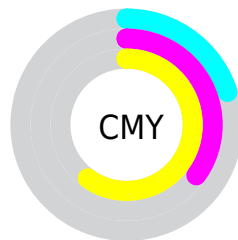


Cyan (0%)

Magenta (19%)

Yellow (50%)

Black (20%)



Cyan (20%)

Magenta (35%)


Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.7069, 0.4086, 0.4081 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 40.7069, 0.4086, 0.4081 by changing the saturation by 10% instead.





 40.7069, 0.4086,  
0.4081


 40.7069, 0.4086,  
0.4081


349.0941, 0.3605,  
0.3697

 28.0901, 0.4202,  
0.4168

 76.2388, 0.3913,  
0.3947

 18.3936, 0.4346,  
0.4274


 99.9226, 0.3848,  
0.3895

 11.2329, 0.4527,  
0.4399


 128.0644, 0.3792,  
0.3850

 6.2237, 0.4755,  
0.4542

 161.0483, 0.3744,  
0.3811

 2.9816, 0.5180,  
0.4820

199.2588, 0.3702,  
0.3777

 1.1221, 0.5295,  
0.4705

243.0804, 0.3666,

 0.0000, 1.0000,

0.3747

0.0000

292.8974, 0.3633,  
0.3721

0.0000, 0.0000,  
0.0000

40.7069, 0.4086,  
0.4081

40.7069, 0.4086,  
0.4081

37.6234, 0.4313,  
0.4215

44.0656, 0.3864,  
0.3928

34.7988, 0.4536,  
0.4318

47.7033, 0.3654,  
0.3766

32.2234, 0.4744,  
0.4378

51.6309, 0.3461,  
0.3602

29.8840, 0.4924,  
0.4388

55.8568, 0.3285,  
0.3442

27.7584, 0.5075,  
0.4353

60.3892, 0.3127,  
0.3290

■ 27.7568, 0.5075,  
0.4353

■ 65.2356, 0.2987,  
0.3147

■ 70.4033, 0.2862,  
0.3014

■ 75.2234, 0.2808,  
0.2995

■ 79.5986, 0.2814,  
0.3080

# Harmonies

## Analogous

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



40.7069, 0.4251, 0.3689



40.7069, 0.4086, 0.4081



40.7069, 0.3665, 0.4304

# Triad

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



40.7069, 0.4086, 0.4081



40.7069, 0.2249, 0.3217



40.7069, 0.3052, 0.2550

# Complementary

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



40.7069, 0.4086, 0.4081



26.2412, 0.2293, 0.2323

# 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.



40.7069, 0.2547, 0.2410



40.7069, 0.4086, 0.4081



40.7069, 0.2118, 0.2738

# Square

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



40.7069, 0.4086, 0.4081



40.7069, 0.2605, 0.3788



40.7069, 0.2222, 0.2465



40.7069, 0.3625, 0.2848



# Rectangle

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



40.7069, 0.4086, 0.4081



40.7069, 0.3307, 0.4285



40.7069, 0.2222, 0.2465



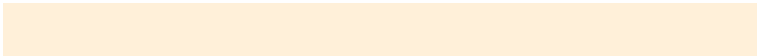
40.7069, 0.2868, 0.2484

# Sweetspot

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



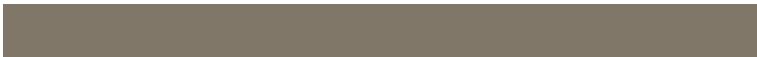
40.7088, 0.4086, 0.4081



88.7964, 0.3374, 0.3525



24.2707, 0.3969, 0.2794



18.6891, 0.3412, 0.3559



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



40.7088, 0.4086, 0.4081



61.9204, 0.4331, 0.4224



55.3677, 0.3751, 0.4539



12.3480, 0.3275, 0.3433



17.6544, 0.5059, 0.4365



1.0546, 0.4847, 0.4534

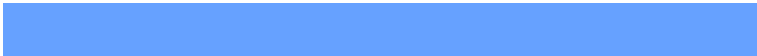


# Inverse Universe

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



26.2412, 0.2293, 0.2323



35.3637, 0.2115, 0.2067



17.4379, 0.2273, 0.1756



11.5356, 0.2983, 0.3143



6.3419, 0.1674, 0.1226

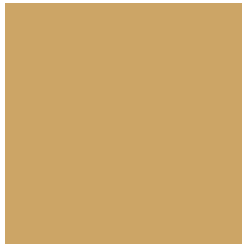


0.4728, 0.1785, 0.1624



# Previews

## White Background



This preview shows how the Yxy color 40.7069, 0.4086, 0.4081 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

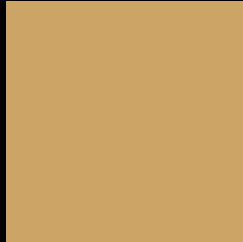
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.7069, 0.4086, 0.4081 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 40.7069, 0.4086, 0.4081**

## Background



This preview shows how black text looks on a background with the Yxy color 40.7069, 0.4086, 0.4081.



This preview shows how white text looks on a background with the Yxy color 40.7069, 0.4086, 0.4081.

# 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

40.7069, 0.4086, 0.4081

### Protanopia

40.6901, 0.3863, 0.4186

### Deuteranopia

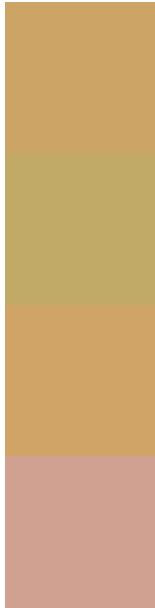
40.5636, 0.4139, 0.4045



## Tritanopia

40.6802, 0.3538, 0.3143

# Trichromacy



## Original Color

40.7069, 0.4086, 0.4081

## Protanomaly

40.6927, 0.3943, 0.4154

## Deuteranomaly

40.7756, 0.4122, 0.4060

## Tritanomaly

40.5958, 0.3747, 0.3481

# Monochromacy



## Original Color

40.7069, 0.4086, 0.4081

## Achromatopsia

39.6755, 0.3127, 0.3290

## Achromatomaly

39.9947, 0.3464, 0.3607

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.7069, 0.4086, 0.4081 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(204, 165, 102)` looks like.

```
.text, #text, p{  
    color:rgb(204, 165, 102)  
}
```

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(204, 165, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 165, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 40.7069, 0.4086, 0.4081 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(204, 165, 102) }
```

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

```
.border{ border-color:rgb(204, 165, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 165, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 165, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 165, 102);  
box-shadow:4px 4px 4px 4px rgb(204, 165,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.7069, 0.4086, 0.4081 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 165, 102) }
```

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

```
.background{ background-color: rgb(204,  
165, 102) }
```

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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