

# Converting Colors

XYZ(41.8482, 42.6033, 19.3536)

Have a look what the booklet for  
XYZ(41.8482, 42.6033, 19.3536)  
contains.

|  |    |
|--|----|
| <b>XYZ(41.8264, 42.6067, 19.3840)</b> .....    | 3  |
| <b><i>Conversions</i></b> .....                | 4  |
| <b><i>Details</i></b> .....                    | 6  |
| <b><i>Harmonies</i></b> .....                  | 12 |
| <b><i>Previews</i></b> .....                   | 24 |
| <b><i>Color Blindness Simulation</i></b> ..... | 28 |
| <b><i>CSS Examples</i></b> .....               | 31 |

# Color

**XYZ(41.8264, 42.6067,  
19.3840)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | CCAA69                      |
| RGB         | 204, 170, 105               |
| RGB Percent | 80%, 67%, 41%               |
| CMY         | 0.2000, 0.3333, 0.5882      |
| CMYK        | 0.00, 0.17, 0.49, 0.20      |
| HSL         | 39°, 49%, 61%               |
| HSV         | 39°, 49%, 80%               |
| XYZ         | 41.8264, 42.6067, 19.3840   |
| YIQ         | 172.7560, 41.1290, -13.0070 |

# Conversions

## Conversions Part 2

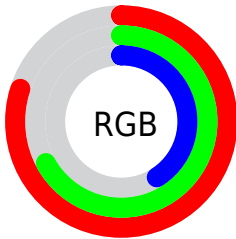
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>RYB</b>                          | 157, 204, 105                  |
| Decimal                             | 13412969                       |
| CIELab                              | 71.29, 4.07, 37.99             |
| CIELCh                              | 71, 38.203, 83.877             |
| Yxy                                 | 42.6067, 0.4029,<br>0.4104     |
| Android<br>(android.graphics.Color) | 4291603049<br>(0xFFCCAA69)     |
| YUV                                 | 172.7560, -33.4037,<br>27.4010 |
| Hunter-Lab                          | 65.2738, 0.1507,<br>28.0846    |

# Details

The XYZ color **41.8264, 42.6067, 19.3840** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **25.9571, 25.8273, 60.7438**, and the grayscale version is **39.7471, 41.8171, 45.5388**.

A 20% lighter version of the original color is **74.2510, 77.5447, 42.9525**, and **19.4050, 19.5383, 6.4899** is the 20% darker color. If you saturate the color by 10%, you get **39.6230, 39.6813, 14.0825**, and if you desaturate by 10%, it is **44.3534, 45.7767, 26.0350**.

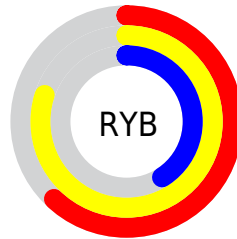
# Distribution



Red (80%)

Green (67%)

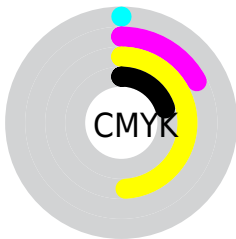
Blue (41%)



Red (62%)

Yellow (80%)

Blue (41%)

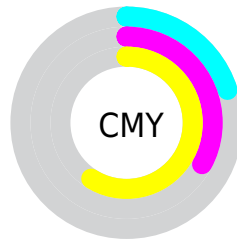


Cyan (0%)

Magenta (17%)

Yellow (49%)

Black (20%)



Cyan (20%)

Magenta (33%)

Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.8264, 42.6067, 19.3840 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 XYZ color 41.8264, 42.6067, 19.3840 by changing the saturation by 10% instead.



41.8264, 42.6067,  
19.3840

41.8264, 42.6067,  
19.3840

344.7667,  
356.9918, 261.0535

29.1559, 29.5766,  
11.7685

77.2036, 79.1170,  
43.2273

19.3437, 19.5175,  
6.4656

100.6411,  
103.3661, 60.2921

12.0243, 12.0448,  
3.0569

128.3982,  
132.1236, 81.3437

6.8326, 6.7742,  
1.1237

160.8404,  
165.7740, 106.8008

3.4030, 3.3213,  
0.0000

198.3330,  
204.7016, 137.0817

1.3703, 1.3017,  
0.0000

241.2413,

0.2349, 0.1425,

249.2908, 172.6052

0.0000

289.9308,  
299.9261, 213.7896

■ 0.0000, 0.0000,  
0.0000

■ 41.8264, 42.6067,  
19.3840

■ 41.8264, 42.6067,  
19.3840

■ 39.6230, 39.6813,  
14.0825

■ 44.3534, 45.7767,  
26.0350

■ 37.7206, 36.9851,  
10.0314

■ 47.2184, 49.1939,  
34.1201

■ 36.0986, 34.5094,  
7.1218

■ 50.4386, 52.8685,  
43.7198

■ 34.7313, 32.2423,  
5.2247

■ 54.0289, 56.8081,  
54.9080

■ 33.5794, 30.1662,  
4.1390

■ 58.0033, 61.0198,  
67.7536

■ 33.4199, 29.8734,  
4.0047

■ 62.3750, 65.5106,  
82.3215

■ 67.1566, 70.2869,  
98.6730

■ 70.1608, 74.4752,  
105.2850

■ 72.1053, 78.3643,  
105.9332

# Harmonies

## Analogous

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



48.2126, 42.6067, 23.3056



41.8264, 42.6067, 19.3840



35.7054, 42.6067, 21.0045

# Triad

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



41.8264, 42.6067, 19.3840



30.2311, 42.6067, 62.2119



51.3005, 42.6067, 70.4908

# Complementary

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



41.8264, 42.6067, 19.3840



25.9571, 25.8273, 60.7438

# 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.



45.6978, 42.6067, 86.7762



41.8264, 42.6067, 19.3840



33.6508, 42.6067, 81.1805

# Square

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



41.8264, 42.6067, 19.3840



29.4274, 42.6067, 42.7245



39.1949, 42.6067, 91.1315



54.0420, 42.6067, 50.2625



# Rectangle

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



41.8264, 42.6067, 19.3840



32.5337, 42.6067, 25.3008



39.1949, 42.6067, 91.1315



49.6626, 42.6067, 76.8018

# Sweetspot

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



41.8274, 42.6087, 19.3849



85.4440, 89.6809, 78.2820



34.6615, 24.8241, 27.6410



18.0245, 18.9027, 15.9423



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



41.8274, 42.6087, 19.3849



65.5426, 65.6106, 23.1472



45.1663, 55.0438, 21.6091



11.8169, 12.4227, 11.8544



21.1244, 18.9817, 2.5505



1.1587, 1.1170, 0.1545

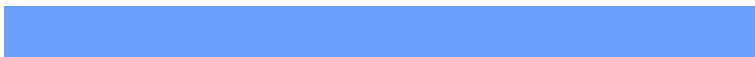


# Inverse Universe

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



25.9571, 25.8273, 60.7438



36.3331, 34.7673, 99.4035



23.6760, 18.4456, 59.4393



10.9115, 11.4634, 14.2079



8.3190, 5.6620, 36.6107



0.4996, 0.4329, 1.9122



# Previews

## White Background



This preview shows how the XYZ color 41.8264, 42.6067, 19.3840 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

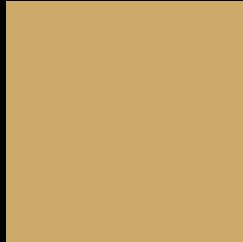
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.8264, 42.6067, 19.3840 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](#).

**XYZ 41.8264, 42.6067, 19.3840**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.8264, 42.6067, 19.3840.



This preview shows how white text looks on a background with the XYZ color 41.8264, 42.6067,



# 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

41.8264, 42.6067, 19.3840

### Protanopia

39.4697, 42.7978, 20.0905

### Deuteranopia

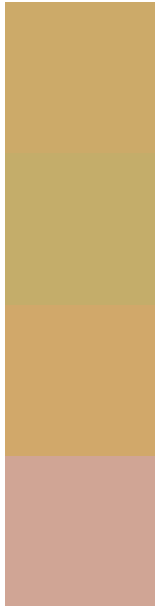
43.5716, 42.6751, 19.5763



## Tritanopia

47.4243, 42.7455, 45.7956

# Trichromacy



## Original Color

41.8264, 42.6067, 19.3840

## Protanomaly

40.3100, 42.6635, 19.7460

## Deuteranomaly

42.8986, 42.6012, 19.5975

## Tritanomaly

44.8924, 42.4901, 34.2691

# Monochromacy



## Original Color

41.8264, 42.6067, 19.3840

## Achromatopsia

39.7200, 41.7885, 45.5077

## Achromatomaly

39.8650, 41.8335, 33.9905

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.8264, 42.6067, 19.3840 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, 170, 105)` looks like.

```
.text, #text, p{  
    color:rgb(204, 170, 105)  
}
```

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, 170, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 170, 105) }
```

## Border

The CSS property to change the border of an element to XYZ 41.8264, 42.6067, 19.3840 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, 170, 105) }
```



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

```
.border{ border-color:rgb(204, 170, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 170, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 170, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 170, 105);  
box-shadow:4px 4px 4px 4px rgb(204, 170,  
105) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.8264, 42.6067, 19.3840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 170, 105) }
```

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

```
.background{ background-color: rgb(204,  
170, 105) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor