

# Converting Colors

XYZ(40.3410, 41.9888, 14.2844)

Have a look what the booklet for  
XYZ(40.3410, 41.9888, 14.2844)  
contains.

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# Color

**XYZ(40.3321, 41.9461,  
14.3582)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CAAA54
RGB	202, 170, 84
RGB Percent	79%, 67%, 33%
CMY	0.2078, 0.3333, 0.6706
CMYK	0.00, 0.16, 0.58, 0.21
HSL	44°, 53%, 56%
HSV	44°, 58%, 79%
XYZ	40.3321, 41.9461, 14.3582
YIQ	169.7640, 46.6780, -19.9620

# Conversions

## Conversions Part 2

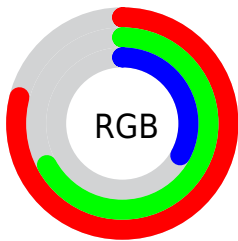
Format	Color
<b>RYB</b>	128, 202, 84
Decimal	13281876
CIELab	70.83, 1.45, 47.91
CIELCh	71, 47.936, 88.272
Yxy	41.9461, 0.4174, 0.4341
Android (android.graphics.Color)	4291471956 (0xFFCAA54)
YUV	169.7640, -42.2817, 28.2710
Hunter-Lab	64.7658, -2.1815, 32.1918

# Details

The XYZ color **40.3321, 41.9461, 14.3582** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **20.5620, 18.6392, 58.3909**, and the grayscale version is **38.2795, 40.2730, 43.8573**.

A 20% lighter version of the original color is **72.6091, 76.8880, 34.3065**, and **18.4300, 19.0864, 4.1515** is the 20% darker color. If you saturate the color by 10%, you get **38.6470, 39.6648, 10.4402**, and if you desaturate by 10%, it is **42.2901, 44.4082, 19.4934**.

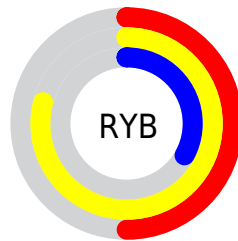
# Distribution



Red (79%)

Green (67%)

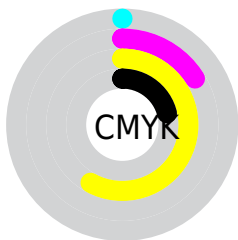
Blue (33%)



Red (50%)

Yellow (79%)

Blue (33%)

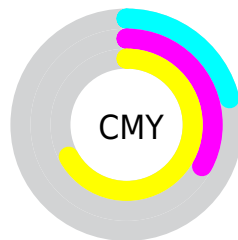


Cyan (0%)

Magenta (16%)

Yellow (58%)

Black (21%)



Cyan (21%)

Magenta (33%)

Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.3321, 41.9461, 14.3582 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 40.3321, 41.9461, 14.3582 by changing the saturation by 10% instead.



40.3321, 41.9461,  
14.3582

40.3321, 41.9461,  
14.3582

338.6318,  
354.2595, 230.9534

27.9829, 29.0591,  
8.2286

74.9501, 78.1180,  
34.4495

18.4532, 19.1255,  
4.1517

97.9496, 102.1718,  
49.2483

11.3775, 11.7610,  
1.7089

125.2300,  
130.7165, 67.7739

6.3905, 6.5812,  
0.3669

157.1566,  
164.1367, 90.4449

3.1269, 3.2016,  
0.0000

194.0947,  
202.8167, 117.6798

1.2212, 1.2379,  
0.0000

236.4097,

0.1230, 0.0923,

247.1409, 149.8972

0.0000

284.4669,  
297.4937, 187.5155

■ 0.0000, 0.0000,  
0.0000

■ 40.3321, 41.9461,  
14.3582

■ 40.3321, 41.9461,  
14.3582

■ 38.6470, 39.6648,  
10.4402

■ 42.2901, 44.4082,  
19.4934

■ 37.2111, 37.5492,  
7.6304

■ 44.5363, 47.0533,  
25.9374

■ 36.0012, 35.5908,  
5.8042

■ 47.0883, 49.8907,  
33.7757

■ 34.9797, 33.7737,  
4.7673

■ 49.9613, 52.9274,  
43.0858

■ 34.8263, 33.4951,  
4.6297

■ 53.1694, 56.1697,  
53.9398

■ 56.7257, 59.6236,  
66.4045

■ 60.6427, 63.2950,  
80.5432

■ 64.9322, 67.1892,  
96.4156

■ 67.8167, 70.5959,  
104.6598

# Harmonies

## Analogous

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



48.4789, 41.9461, 17.5971



40.3321, 41.9461, 14.3582



33.0440, 41.9461, 16.9061

# Triad

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



40.3321, 41.9461, 14.3582



27.8420, 41.9461, 69.7631



54.3686, 41.9461, 72.8457

# Complementary

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



40.3321, 41.9461, 14.3582



20.5620, 18.6392, 58.3909

# 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.



47.5734, 41.9461, 96.2289



40.3321, 41.9461, 14.3582



32.3432, 41.9461, 94.0716

# Square

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



40.3321, 41.9461, 14.3582



26.4335, 41.9461, 44.3623



39.4085, 41.9461, 105.0543



57.2237, 41.9461, 47.0076



# Rectangle

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



40.3321, 41.9461, 14.3582



29.4940, 41.9461, 22.2530



39.4085, 41.9461, 105.0543



52.4285, 41.9461, 81.5371

# Sweetspot

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



40.3331, 41.9481, 14.3590



84.6784, 89.7032, 73.2380



30.7641, 20.1922, 19.2401



17.8045, 18.8676, 14.6209



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.



40.3331, 41.9481, 14.3590



64.7782, 66.2212, 16.2968



40.7235, 52.1618, 16.3099



11.8866, 12.5621, 11.8777



22.4876, 21.7081, 3.0049



1.2210, 1.2416, 0.1753



# Inverse Universe

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



20.5620, 18.6392, 58.3909



28.3913, 23.4188, 97.6316



20.2080, 13.8927, 57.4934



10.8451, 11.3307, 14.1858



7.7962, 4.6164, 36.4364



0.4665, 0.3667, 1.9011



# Previews

## White Background



This preview shows how the XYZ color 40.3321, 41.9461, 14.3582 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

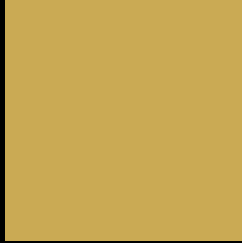
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.3321, 41.9461, 14.3582 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 40.3321, 41.9461, 14.3582

## Background



This preview shows how black text looks on a background with the XYZ color 40.3321, 41.9461, 14.3582.



This preview shows how white text looks on a background with the XYZ color 40.3321, 41.9461,



# 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

40.3321, 41.9461, 14.3582

### Protanopia

38.5140, 42.1344, 14.6972

### Deuteranopia

42.8264, 41.8623, 14.4174



## Tritanopia

46.6920, 41.8604, 45.1541

# Trichromacy



## Original Color

40.3321, 41.9461, 14.3582

## Protanomaly

39.3482, 42.2788, 14.6811

## Deuteranomaly

42.0368, 41.9949, 14.4846

## Tritanomaly

43.8153, 41.7394, 30.9465

# Monochromacy



## Original Color

40.3321, 41.9461, 14.3582

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

38.3263, 40.5586, 30.2347

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.3321, 41.9461, 14.3582 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(202, 170, 84)` looks like.

```
.text, #text, p{  
    color:rgb(202, 170, 84)  
}
```

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(202, 170, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 170, 84) }
```

## Border

The CSS property to change the border of an element to XYZ 40.3321, 41.9461, 14.3582 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(202, 170, 84) }
```



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

```
.border{ border-color:rgb(202, 170, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 170, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 170, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 170, 84);  
box-shadow:4px 4px 4px 4px rgb(202, 170,  
84) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.3321, 41.9461, 14.3582 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 170, 84) }
```

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

```
.background{ background-color: rgb(202,  
170, 84) }
```

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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