

Converting Colors

XYZ(37.9702, 40.2221, 12.0657)

Have a look what the booklet for
XYZ(37.9702, 40.2221, 12.0657)
contains.

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Color

**XYZ(37.9702, 40.2221,
12.0657)**

Conversions

Conversions Part 1

Format	Color
Hex	C4A849
RGB	196, 168, 73
RGB Percent	77%, 66%, 29%
CMY	0.2314, 0.3412, 0.7137
CMYK	0.00, 0.14, 0.63, 0.23
HSL	46°, 51%, 53%
HSV	46°, 63%, 77%
XYZ	37.9702, 40.2221, 12.0657
YIQ	165.5420, 47.1830, -23.6090

Conversions

Conversions Part 2

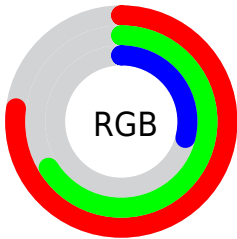
Format	Color
RYB	109, 196, 73
Decimal	12888137
CIELab	69.63, -0.84, 51.57
CIElCh	70, 51.576, 90.931
Yxy	40.2221, 0.4207, 0.4456
Android (android.graphics.Color)	4291078217 (0xFFC4A849)
YUV	165.5420, -45.6232, 26.7117
Hunter-Lab	63.4209, -4.1183, 33.1148

Details

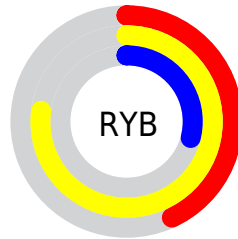
The XYZ color **37.9702, 40.2221, 12.0657** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **17.3650, 14.7088, 54.1481**, and the grayscale version is **36.2225, 38.1089, 41.5006**.

A 20% lighter version of the original color is **71.3293, 75.5160, 30.2186**, and **17.0020, 18.0234, 3.1550** is the 20% darker color. If you saturate the color by 10%, you get **36.6108, 38.3846, 8.8963**, and if you desaturate by 10%, it is **39.5645, 42.2019, 16.3244**.

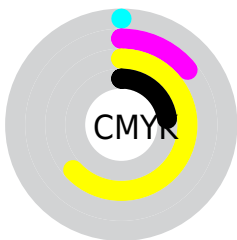
Distribution



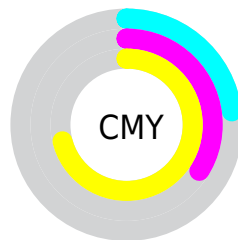
- Red (77%)
- Green (66%)
- Blue (29%)



- Red (43%)
- Yellow (77%)
- Blue (29%)



- Cyan (0%)
- Magenta (14%)
- Yellow (63%)
- Black (23%)



- Cyan (23%)
- Magenta (34%)
- Yellow (71%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 37.9702, 40.2221, 12.0657 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 37.9702, 40.2221, 12.0657 by changing the saturation by 10% instead.

■ 37.9702, 40.2221,
12.0657

■ 37.9702, 40.2221,
12.0657

328.7752,
347.0588, 215.8331

■ 26.1367, 27.7118,
6.6654

■ 71.3667, 75.5016,
30.2809

■ 17.0591, 18.1085,
3.1785

■ 93.6603, 99.0395,
43.9328

■ 10.3722, 11.0279,
1.1865

■ 120.1713,
127.0221, 61.1724

■ 5.7106, 6.0856,
0.0000

■ 151.2651,
159.8338, 82.4180

■ 2.7089, 2.8972,
0.0000

■ 187.3071,
197.8589, 108.0884

■ 1.0018, 1.0783,
0.0000

228.6625,

■ 0.0000, 0.0000,

241.4818, 138.6020

0.0000

275.6967,
291.0870, 174.3774

■ 37.9702, 40.2221,
12.0657

■ 37.9702, 40.2221,
12.0657

■ 36.6108, 38.3846,
8.8963

■ 39.5645, 42.2019,
16.3244

■ 35.4632, 36.6750,
6.7084

■ 41.4085, 44.3256,
21.7617

■ 34.5041, 35.0852,
5.3763

■ 43.5191, 46.6021,
28.4604

■ 33.8943, 33.9946,
4.7752

■ 45.9107, 49.0375,
36.4952

■ 48.5965, 51.6375,
45.9350

■ 51.5890, 54.4075,
56.8438

■ 54.8998, 57.3527,
69.2817

■ 58.5400, 60.4777,
83.3054

■ 62.5200, 63.7873,
98.9688

Harmonies

Analogous

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



46.5575, 40.2221, 14.6802



37.9702, 40.2221, 12.0657



30.5696, 40.2221, 15.0428

Triad

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



37.9702, 40.2221, 12.0657



26.0643, 40.2221, 71.8775



54.0185, 40.2221, 70.0959

Complementary

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



37.9702, 40.2221, 12.0657



17.3650, 14.7088, 54.1481

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.



47.0736, 40.2221, 96.1449



37.9702, 40.2221, 12.0657



30.9597, 40.2221, 97.4096

Square

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



37.9702, 40.2221, 12.0657



24.3399, 40.2221, 44.5447



38.4908, 40.2221, 107.5864



56.5980, 40.2221, 43.0538

Rectangle

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



37.9702, 40.2221, 12.0657



27.0880, 40.2221, 20.7683



38.4908, 40.2221, 107.5864



52.0717, 40.2221, 79.5611

Sweetspot

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



37.9711, 40.2240, 12.0665



84.7900, 90.4280, 71.7289



27.5311, 17.4545, 14.4110



17.8561, 19.0681, 14.3380



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.



37.9711, 40.2240, 12.0665



65.5699, 68.4504, 14.5696



36.0878, 47.7684, 13.6220



10.7128, 11.3569, 10.6894



21.8459, 21.9776, 3.0907



0.9927, 1.0472, 0.1498

Inverse Universe

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



17.3650, 14.7088, 54.1481



25.4349, 18.8752, 96.9105



18.2668, 11.8030, 53.5397



9.7102, 10.1117, 12.7248



7.0503, 3.8570, 33.9295



0.3585, 0.2744, 1.4840

Previews

White Background



This preview shows how the XYZ color 37.9702, 40.2221, 12.0657 looks on a white background.

Color Contrast Check

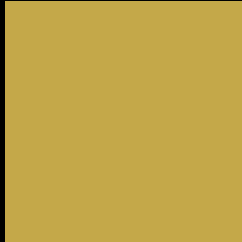
Large Text (above 18pt) WCAG AA × Fail

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 37.9702, 40.2221, 12.0657 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 37.9702, 40.2221, 12.0657

Background



This preview shows how black text looks on a background with the XYZ color 37.9702, 40.2221, 12.0657.

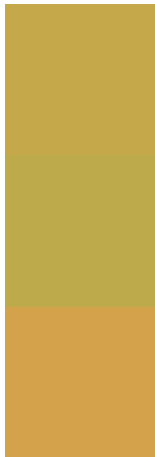


This preview shows how white text looks on a background with the XYZ color 37.9702, 40.2221,

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

37.9702, 40.2221, 12.0657

Protanopia

36.5970, 40.0627, 12.2826

Deuteranopia

41.0543, 40.1975, 12.2517



Tritanopia

44.3844, 40.1934, 43.4490

Trichromacy



Original Color

37.9702, 40.2221, 12.0657

Protanomaly

37.1622, 40.0768, 12.2555

Deuteranomaly

39.9651, 40.1671, 12.1252

Tritanomaly

41.3809, 40.0074, 28.4629

Monochromacy



Original Color

37.9702, 40.2221, 12.0657

Achromatopsia

36.2450, 38.1326, 41.5264

Achromatomaly

36.1150, 38.6505, 27.3866

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.9702, 40.2221, 12.0657 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(196, 168, 73)` looks like.

```
.text, #text, p{  
    color:rgb(196, 168, 73)  
}
```

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(196, 168, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 168, 73) }
```

Border

The CSS property to change the border of an element to XYZ 37.9702, 40.2221, 12.0657 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(196, 168, 73) }
```


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

```
.border{ border-color:rgb(196, 168, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 168, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 168, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 168, 73);  
box-shadow:4px 4px 4px 4px rgb(196, 168,  
73) }
```

Background

The CSS property to change the background color of an element to XYZ 37.9702, 40.2221, 12.0657 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 168, 73) }
```

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

```
.background{ background-color: rgb(196,  
168, 73) }
```

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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