

# Converting Colors

XYZ(37.7350, 33.8909, 25.0122)

Have a look what the booklet for  
XYZ(37.7350, 33.8909, 25.0122)  
contains.

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# Color

**XYZ(37.6890, 33.7844,  
24.9567)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C89080
RGB	200, 144, 128
RGB Percent	78%, 56%, 50%
CMY	0.2157, 0.4353, 0.4980
CMYK	0.00, 0.28, 0.36, 0.22
HSL	13°, 40%, 64%
HSV	13°, 36%, 78%
XYZ	37.6890, 33.7844, 24.9567
YIQ	158.9200, 38.5120, 6.8960

# Conversions

## Conversions Part 2

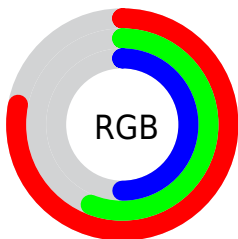
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	200, 149, 128
Decimal	13144192
CIE <sub>Lab</sub>	64.79, 19.10, 16.90
CIE <sub>LCh</sub>	65, 25.500, 41.503
Yxy	33.7844, 0.3908, 0.3504
Android (android.graphics.Color)	4291334272 (0xFFC89080)
YUV	158.9200, -15.2436, 36.0272
Hunter-Lab	58.1243, 14.0254, 15.2299

# Details

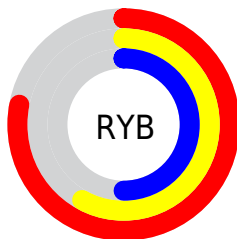
The XYZ color **37.6890, 33.7844, 24.9567** is a light color, and the websafe version is hex **CC9999**. A complement of this color would be **36.4673, 43.0389, 61.0290**, and the grayscale version is **32.9740, 34.6912, 37.7787**.

A 20% lighter version of the original color is **69.7746, 64.9844, 52.5818**, and **16.8272, 14.3225, 9.2748** is the 20% darker color. If you saturate the color by 10%, you get **34.3044, 28.9183, 17.9614**, and if you desaturate by 10%, it is **41.6595, 39.4067, 33.4281**.

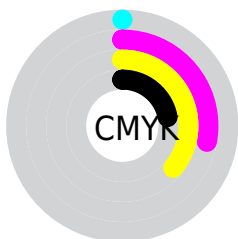
# Distribution



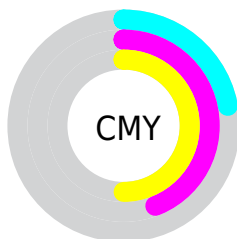
- Red (78%)
- Green (56%)
- Blue (50%)



- Red (78%)
- Yellow (58%)
- Blue (50%)



- Cyan (0%)
- Magenta (28%)
- Yellow (36%)
- Black (22%)




- Cyan (22%)
- Magenta (44%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6890, 33.7844, 24.9567 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 37.6890, 33.7844, 24.9567 by changing the saturation by 10% instead.





 37.6890, 33.7844,  
24.9567


 37.6890, 33.7844,  
24.9567

327.5879,  
319.1696, 291.0630

 25.9175, 22.7280,  
15.8261


 70.9382, 65.5983,  
52.5502

 16.8943, 14.3928,  
9.2481

 93.1466, 87.1245,  
71.8502

 10.2540, 8.3944,  
4.8044


 119.5647,  
112.9095, 95.3770

 5.6312, 4.3483,  
2.0762

150.5578,  
143.3377, 123.5493

 2.6607, 1.8703,  
0.6016

186.4914,  
178.7934, 156.7854

 0.9770, 0.5304,  
0.0000


227.7307,


 0.0000, 0.0000,


219.6610, 195.5041


0.0000

274.6411,  
266.3250, 240.1238


 37.6890, 33.7844,  
24.9567


 37.6890, 33.7844,  
24.9567


 34.3044, 28.9183,  
17.9614


 41.6595, 39.4067,  
33.4281


 31.4745, 24.7711,  
12.3552


 46.2396, 45.8109,  
43.4517


 29.1693, 21.3095,  
8.0448


 51.4553, 53.0274,  
55.1010


 27.3543, 18.4954,  
4.9247


 57.3298, 61.0835,  
68.4440

 25.9909, 16.2870,  
2.8725


 63.8854, 70.0052,  
83.5450

 25.0331, 14.6366,  
1.7355

 71.1433, 79.8174,  
100.4647

 24.7372, 14.1149,  
1.4207

 76.9588, 89.6780,  
107.8612

 77.6295, 91.0194,  
108.0847

# Harmonies

## Analogous

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



39.5312, 33.7844, 32.9022



37.6890, 33.7844, 24.9567



34.4014, 33.7844, 20.7605

# Triad

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



37.6890, 33.7844, 24.9567



25.8753, 33.7844, 30.7411



33.5384, 33.7844, 60.3454

# Complementary

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



37.6890, 33.7844, 24.9567



36.4673, 43.0389, 61.0290

# 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.



29.9247, 33.7844, 59.4624



37.6890, 33.7844, 24.9567



25.6829, 33.7844, 40.9629

# Square

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



37.6890, 33.7844, 24.9567



27.6598, 33.7844, 23.6351



27.1126, 33.7844, 51.8621



37.0159, 33.7844, 54.0845



# Rectangle

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



37.6890, 33.7844, 24.9567



31.9264, 33.7844, 20.0605



27.1126, 33.7844, 51.8621



32.2964, 33.7844, 60.9018

# Sweetspot

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



37.6899, 33.7860, 24.9574



84.2895, 85.1859, 84.6369



40.2326, 31.1956, 49.4686



17.7784, 17.8691, 17.5293



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.



37.6899, 33.7860, 24.9574



60.7007, 51.9609, 33.7600



43.9566, 46.3194, 27.0463



10.8219, 11.0130, 11.1181



15.7845, 9.0862, 0.9219



0.8033, 0.5420, 0.0623



# Inverse Universe

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



36.4673, 43.0389, 61.0290



58.2605, 70.2148, 105.0899



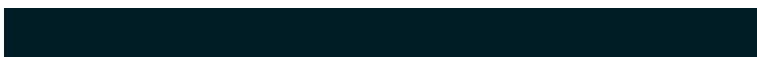
29.9805, 30.0652, 58.8667



10.7390, 11.6521, 13.6006



14.2083, 17.8106, 37.4333



0.7236, 0.9449, 1.7894



# Previews

## White Background



This preview shows how the XYZ color 37.6890, 33.7844, 24.9567 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

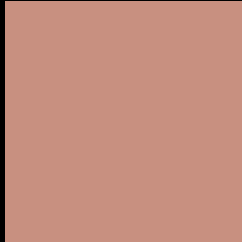
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.6890, 33.7844, 24.9567 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

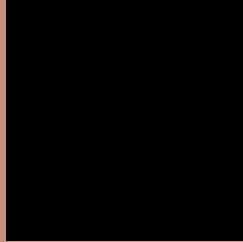
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.6890, 33.7844, 24.9567**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6890, 33.7844, 24.9567.



This preview shows how white text looks on a background with the XYZ color 37.6890, 33.7844,



# 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

37.6890, 33.7844, 24.9567

### Protanopia

32.0859, 33.9422, 27.4146

### Deuteranopia

34.4258, 33.7328, 24.7753



## Tritanopia

39.4679, 33.8407, 33.7299

# Trichromacy



## Original Color

37.6890, 33.7844, 24.9567

## Protanomaly

33.7532, 33.5874, 26.5338

## Deuteranomaly

35.4069, 33.5309, 24.6846

## Tritanomaly

38.7183, 33.7467, 30.4597

# Monochromacy



## Original Color

37.6890, 33.7844, 24.9567

## Achromatopsia

32.9542, 34.6704, 37.7561

## Achromatomaly

34.3565, 34.2480, 32.8167

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6890, 33.7844, 24.9567 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(200, 144, 128)` looks like.

```
.text, #text, p{  
    color:rgb(200, 144, 128)  
}
```

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(200, 144, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 144, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6890, 33.7844, 24.9567 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(200, 144, 128) }
```



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

```
.border{ border-color:rgb(200, 144, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 144, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(200, 144, 128); -webkit-box-shadow:4px 4px 4px 4px rgb(200, 144, 128); box-shadow:4px 4px 4px 4px rgb(200, 144, 128) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6890, 33.7844, 24.9567 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 144, 128) }
```

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

```
.background{ background-color: rgb(200,  
144, 128) }
```

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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