

# Converting Colors

XYZ(33.4448, 44.5354, 42.2642)

Have a look what the booklet for  
XYZ(33.4448, 44.5354, 42.2642)  
contains.

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# Color

**XYZ(33.3869, 44.4090,  
42.4094)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78C0A5
RGB	120, 192, 165
RGB Percent	47%, 75%, 65%
CMY	0.5294, 0.2470, 0.3529
CMYK	0.38, 0.00, 0.14, 0.25
HSL	157°, 36%, 61%
HSV	157°, 38%, 75%
XYZ	33.3869, 44.4090, 42.4094
YIQ	167.3940, -34.2450, -23.6610

# Conversions

## Conversions Part 2

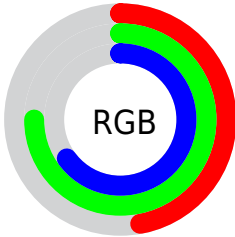
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 164, 192
Decimal	7913637
CIELab	72.50, -28.68, 6.53
CIELCh	73, 29.414, 167.177
Yxy	44.4090, 0.2777, 0.3694
Android (android.graphics.Color)	4286103717 (0xFF78C0A5)
YUV	167.3940, -1.1802, -41.5645
Hunter-Lab	66.6401, -27.1910, 8.9162

# Details

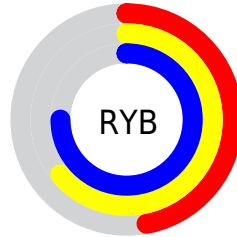
The XYZ color **33.3869, 44.4090, 42.4094** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **33.7227, 26.7471, 30.9909**, and the grayscale version is **36.9413, 38.8651, 42.3241**.

A 20% lighter version of the original color is **64.4731, 82.0326, 80.1459**, and **14.3839, 20.5625, 18.8336** is the 20% darker color. If you saturate the color by 10%, you get **30.3495, 42.9180, 38.9424**, and if you desaturate by 10%, it is **36.9976, 46.1937, 46.0978**.

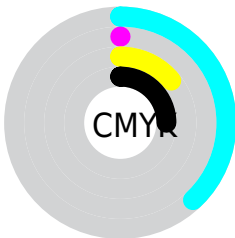
# Distribution



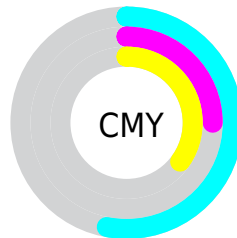
- Red (47%)
- Green (75%)
- Blue (65%)



- Red (47%)
- Yellow (64%)
- Blue (75%)



- Cyan (38%)
- Magenta (0%)
- Yellow (14%)
- Black (25%)




- Cyan (53%)
- Magenta (25%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3869, 44.4090, 42.4094 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 33.3869, 44.4090, 42.4094 by changing the saturation by 10% instead.





 33.3869, 44.4090,  
42.4094


 33.3869, 44.4090,  
42.4094


309.0238,  
364.3747, 372.0269


 22.5837, 30.9922,  
29.0940


 64.3298, 81.8328,  
80.0956

 14.4054, 20.5929,  
18.9058


 85.2001, 106.6086,  
105.3036

 8.4867, 12.8267,  
11.4261


 110.1568,  
135.9396, 135.3128

 4.4624, 7.3094,  
6.2364

139.5652,  
170.2100, 170.5418

 1.9669, 3.6563,  
2.9183

173.7908,  
209.8043, 211.4092

 0.6153, 1.4832,  
1.0531

213.1989,

 0.0000, 0.2769,

255.1070, 258.3335

0.0000

258.1547,  
306.5023, 311.7332

■ 0.0000, 0.0000,  
0.0000

■ 33.3869, 44.4090,  
42.4094

■ 33.3869, 44.4090,  
42.4094

■ 30.3495, 42.9180,  
38.9424

■ 36.9976, 46.1937,  
46.0978

■ 27.8491, 41.6983,  
35.6890

■ 41.2078, 48.2819,  
50.0091

■ 25.8506, 40.7334,  
32.6455


■ 46.0468, 50.6899,  
54.1485


■ 24.3133, 40.0021,  
29.8066


■ 51.5406, 53.4310,  
58.5202


■ 23.1895, 39.4801,  
27.1666


■ 57.7136, 56.5177,  
63.1282


 22.4109, 39.1320,  
24.7189

 64.5893, 59.9620,  
67.9764

 22.2405, 39.0569,  
24.1352

 72.1897, 63.7754,  
73.0686

 73.3567, 64.2674,  
78.0724

 74.3462, 64.6632,  
83.2834

# Harmonies

## Analogous

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



35.4454, 44.4090, 31.7281



33.3869, 44.4090, 42.4094



33.5514, 44.4090, 57.0910

# Triad

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



33.3869, 44.4090, 42.4094



45.1591, 44.4090, 80.2919



49.2002, 44.4090, 30.6073

# Complementary

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



33.3869, 44.4090, 42.4094



33.7227, 26.7471, 30.9909

# 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.



52.2419, 44.4090, 40.5570



33.3869, 44.4090, 42.4094



49.7834, 44.4090, 69.9607

# Square

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



33.3869, 44.4090, 42.4094



40.0793, 44.4090, 81.0653



52.4635, 44.4090, 54.8293



44.4137, 44.4090, 25.8920



# Rectangle

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



33.3869, 44.4090, 42.4094



34.8980, 44.4090, 67.2960



52.4635, 44.4090, 54.8293



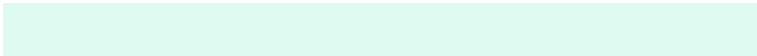
50.4768, 44.4090, 33.3483

# Sweetspot

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



33.3881, 44.4108, 42.4104



80.0723, 90.1706, 95.3043



34.3817, 45.3160, 24.7047



16.9192, 19.2157, 20.2255



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



33.3881, 44.4108, 42.4104



55.8957, 78.2058, 71.6477



34.3191, 41.9156, 56.1531



10.2032, 11.3623, 12.0732



15.0036, 26.2955, 16.4438



0.6808, 1.1492, 0.8818



# Inverse Universe

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



33.7227, 26.7471, 30.9909



56.5969, 41.6034, 48.0236



32.9012, 28.1066, 21.4610



10.2259, 10.1390, 11.2803



15.4497, 7.8696, 5.0140



0.7010, 0.3534, 0.3931



# Previews

## White Background



This preview shows how the XYZ color 33.3869, 44.4090, 42.4094 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

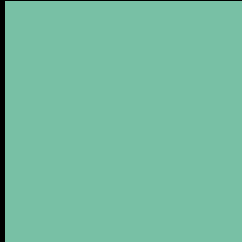
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.3869, 44.4090, 42.4094 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

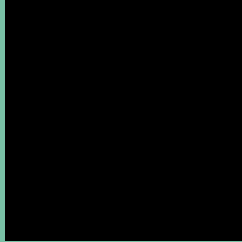
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.3869, 44.4090, 42.4094**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3869, 44.4090, 42.4094.



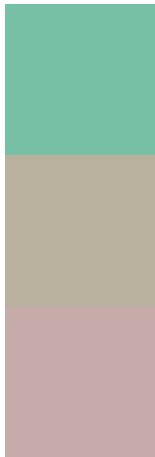
This preview shows how white text looks on a background with the XYZ color 33.3869, 44.4090,



# 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

33.3869, 44.4090, 42.4094

### Protanopia

41.6187, 43.7993, 38.1589

### Deuteranopia

44.7503, 43.8607, 43.6435



## Tritanopia

37.4843, 44.4720, 62.4854

# Trichromacy



**Original Color**

33.3869, 44.4090, 42.4094

**Protanomaly**

37.7711, 43.5710, 39.6770

**Deuteranomaly**

39.5502, 43.5024, 43.3581

**Tritanomaly**

35.9871, 44.5049, 54.8377

# Monochromacy



**Original Color**

33.3869, 44.4090, 42.4094

**Achromatopsia**

36.7301, 38.6429, 42.0822

**Achromatomaly**

34.9859, 40.2879, 42.0088

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3869, 44.4090, 42.4094 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(120, 192, 165)` looks like.

```
.text, #text, p{  
    color:rgb(120, 192, 165)  
}
```

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(120, 192, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 192, 165) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3869, 44.4090, 42.4094 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(120, 192, 165) }
```



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

```
.border{ border-color:rgb(120, 192, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 192, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 192, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 192, 165);  
box-shadow:4px 4px 4px 4px rgb(120, 192,  
165) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3869, 44.4090, 42.4094 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 192, 165) }
```

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

```
.background{ background-color: rgb(120,  
192, 165) }
```

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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