

# Converting Colors

XYZ(24.6673, 33.9558, 17.8433)

Have a look what the booklet for  
XYZ(24.6673, 33.9558, 17.8433)  
contains.

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# Color

**XYZ(24.7069, 34.0782,  
17.8459)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78AB66
RGB	120, 171, 102
RGB Percent	47%, 67%, 40%
CMY	0.5294, 0.3294, 0.6000
CMYK	0.30, 0.00, 0.40, 0.33
HSL	104°, 29%, 54%
HSV	104°, 40%, 67%
XYZ	24.7069, 34.0782, 17.8459
YIQ	147.8850, -8.2470, -32.2710

# Conversions

## Conversions Part 2

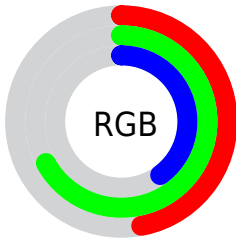
<b>Format</b>	<b>Color</b>
<b>RYB</b>	102, 171, 153
Decimal	7908198
CIELab	65.02, -30.14, 30.25
CIELCh	65, 42.700, 134.901
Yxy	34.0782, 0.3224, 0.4447
Android (android.graphics.Color)	4286098278 (0xFF78AB66)
YUV	147.8850, -22.6213, -24.4551
Hunter-Lab	58.3765, -26.6118, 22.7384

# Details

The XYZ color **24.7069, 34.0782, 17.8459** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **25.2404, 19.2163, 40.9087**, and the grayscale version is **28.1949, 29.6632, 32.3032**.

A 20% lighter version of the original color is **50.7574, 66.2699, 40.6880**, and **9.5985, 14.4884, 5.7807** is the 20% darker color. If you saturate the color by 10%, you get **22.3062, 32.9297, 13.7542**, and if you desaturate by 10%, it is **27.5157, 35.4189, 22.8713**.

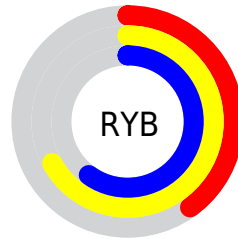
# Distribution



Red (47%)

Green (67%)

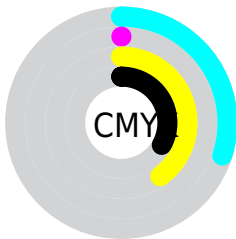
Blue (40%)



Red (40%)

Yellow (67%)

Blue (60%)

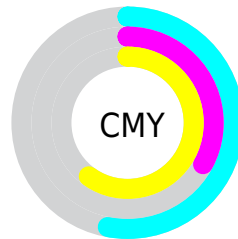


Cyan (30%)

Magenta (0%)

Yellow (40%)

Black (33%)



Cyan (53%)

Magenta (33%)

Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.7069, 34.0782, 17.8459 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 24.7069, 34.0782, 17.8459 by changing the saturation by 10% instead.



■ 24.7069, 34.0782,  
17.8459

■ 24.7069, 34.0782,  
17.8459

268.7498,  
320.4806, 252.2079

■ 15.9864, 22.9537,  
10.6711

■ 50.6277, 66.0553,  
40.5850

■ 9.6053, 14.5593,  
5.7348

■ 68.5586, 87.6766,  
56.9863

■ 5.1983, 8.5107,  
2.6183

■ 90.2904, 113.5656,  
77.3002

■ 2.4000, 4.4234,  
0.9019

■ 116.1884,  
144.1068, 101.9453

■ 0.8451, 1.9131,  
0.0000

146.6180,  
179.6845, 131.3401

■ 0.0000, 0.5563,  
0.0000

181.9445,

■ 0.0000, 0.0000,

220.6831, 165.9031

0.0000

222.5333,  
267.4870, 206.0528

■ 24.7069, 34.0782,  
17.8459

■ 24.7069, 34.0782,  
17.8459

■ 22.3062, 32.9297,  
13.7542

■ 27.5157, 35.4189,  
22.8713

■ 20.2913, 31.9601,  
10.5365

■ 30.7484, 36.9558,  
28.8807

■ 18.6413, 31.1611,  
8.1297


■ 34.4233, 38.6981,  
35.9235


■ 17.3322, 30.5218,  
6.4611

■ 38.5564, 40.6534,  
44.0453

■ 16.3369, 30.0302,  
5.4454

■ 43.1633, 42.8285,  
53.2887

 15.6285, 29.6762,  
4.9044

 48.2586, 45.2302,  
63.6941

 53.8563, 47.8648,  
75.3000

 59.9700, 50.7386,  
88.1430

 66.4663, 53.7989,  
101.4888

# Harmonies

## Analogous

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



29.4302, 34.0782, 12.9806



24.7069, 34.0782, 17.8459



22.2206, 34.0782, 28.9293

# Triad

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



24.7069, 34.0782, 17.8459



29.3931, 34.0782, 80.6042



45.2814, 34.0782, 29.0254

# Complementary

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



24.7069, 34.0782, 17.8459



25.2404, 19.2163, 40.9087

# 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.



45.2681, 34.0782, 46.6928



24.7069, 34.0782, 17.8459



35.5425, 34.0782, 80.6552

# Square

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



24.7069, 34.0782, 17.8459



24.6827, 34.0782, 66.6782



41.5213, 34.0782, 66.8010



41.5555, 34.0782, 17.8969



# Rectangle

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



24.7069, 34.0782, 17.8459



21.9365, 34.0782, 40.0890



41.5213, 34.0782, 66.8010



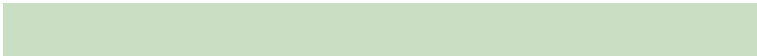
45.7280, 34.0782, 34.2736

# Sweetspot

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



24.7078, 34.0797, 17.8466



60.3613, 68.6939, 61.8429



30.5202, 32.2705, 17.1911



13.2713, 15.2292, 13.4255



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



24.7078, 34.0797, 17.8466



40.5485, 59.2611, 25.6305



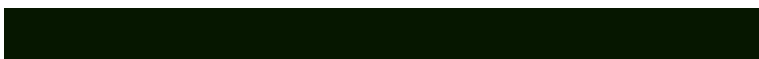
23.3194, 33.2625, 22.3627



8.0931, 9.0366, 8.5311



11.8243, 22.3927, 3.6990



0.3803, 0.6494, 0.1053



# Inverse Universe

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



25.2404, 19.2163, 40.9087



41.6038, 29.0891, 72.4239



27.4552, 20.5248, 33.4824



8.1301, 8.0414, 10.0763



12.1229, 5.6094, 29.4883



0.3847, 0.1805, 0.8226



# Previews

## White Background



This preview shows how the XYZ color 24.7069, 34.0782, 17.8459 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 24.7069, 34.0782, 17.8459 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 24.7069, 34.0782, 17.8459**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.7069, 34.0782, 17.8459.



This preview shows how white text looks on a background with the XYZ color 24.7069, 34.0782,



# 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

24.7069, 34.0782, 17.8459

### Protanopia

31.2279, 33.7477, 16.1773

### Deuteranopia

34.2992, 33.5656, 18.5810



## Tritanopia

30.1739, 33.8413, 45.4991

# Trichromacy



## Original Color

24.7069, 34.0782, 17.8459

## Protanomaly

28.3093, 33.5138, 16.7811

## Deuteranomaly

29.8809, 33.2602, 18.2096

## Tritanomaly

27.7025, 33.6376, 33.0496

# Monochromacy



## Original Color

24.7069, 34.0782, 17.8459

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

26.4664, 30.8189, 26.0264

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.7069, 34.0782, 17.8459 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, 171, 102)` looks like.

```
.text, #text, p{  
    color:rgb(120, 171, 102)  
}
```

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, 171, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 171, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 24.7069, 34.0782, 17.8459 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, 171, 102) }
```



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

```
.border{ border-color:rgb(120, 171, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 171, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 171, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 171, 102);  
box-shadow:4px 4px 4px 4px rgb(120, 171,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.7069, 34.0782, 17.8459 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 171, 102) }
```

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

```
.background{ background-color: rgb(120,  
171, 102) }
```

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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