

# Converting Colors

XYZ(72.6704, 81.4530, 50.0138)

Have a look what the booklet for  
XYZ(72.6704, 81.4530, 50.0138)  
contains.

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# Color

**XYZ(72.7998, 81.6478,  
49.9529)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEEDAA
RGB	238, 237, 170
RGB Percent	93%, 93%, 67%
CMY	0.0667, 0.0706, 0.3333
CMYK	0.00, 0.00, 0.29, 0.07
HSL	59°, 67%, 80%
HSV	59°, 29%, 93%
XYZ	72.7998, 81.6478, 49.9529
YIQ	229.6610, 22.1030, -20.6250

# Conversions

## Conversions Part 2

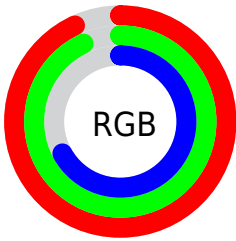
Format	Color
<a href="#">RYB</a>	<a href="#">171, 238, 170</a>
Decimal	<a href="#">15658410</a>
CIELab	<a href="#">92.42, -9.85, 32.68</a>
CIELCh	<a href="#">92, 34.130, 106.773</a>
Yxy	<a href="#">81.6478, 0.3562, 0.3995</a>
Android (android.graphics.Color)	<a href="#">4293848490</a> ( <a href="#">0xFFEEEDAA</a> )
YUV	<a href="#">229.6610, -29.4129, 7.3133</a>
Hunter-Lab	<a href="#">90.3592, -14.3162, 30.4744</a>

# Details

The XYZ color **72.7998, 81.6478, 49.9529** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **46.5730, 43.8439, 86.8972**, and the grayscale version is **75.1640, 79.0784, 86.1164**.

A 20% lighter version of the original color is **90.7275, 98.2710, 86.1379**, and **38.7908, 44.1559, 23.3081** is the 20% darker color. If you saturate the color by 10%, you get **70.6494, 80.6294, 39.1161**, and if you desaturate by 10%, it is **75.3622, 82.8370, 62.9398**.

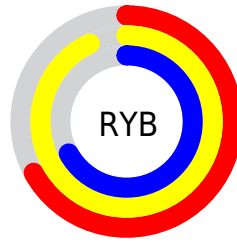
# Distribution



Red (93%)

Green (93%)

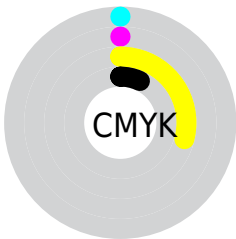
Blue (67%)



Red (67%)

Yellow (93%)

Blue (67%)

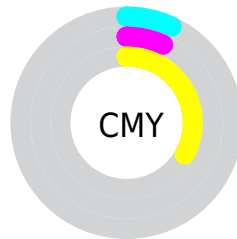


Cyan (0%)

Magenta (0%)

Yellow (29%)

Black (7%)



Cyan (7%)

Magenta (7%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.7998, 81.6478, 49.9529 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 72.7998, 81.6478, 49.9529 by changing the saturation by 10% instead.



72.7998, 81.6478,  
49.9529

72.7998, 81.6478,  
49.9529

459.4352,  
500.4688, 403.2115

54.1001, 61.0753,  
35.0051

122.1976,  
135.6800, 91.5007

38.9127, 44.2859,  
23.3832

153.6264,  
169.9084, 118.9377

26.8722, 30.8953,  
14.6687

190.0290,  
209.4576, 151.3748

17.6134, 20.5192,  
8.4432

231.7706,  
254.7120, 189.2307

10.7708, 12.7730,  
4.2880

279.2167,  
306.0559, 232.9237

5.9791, 7.2724,  
1.7846

332.7326,

2.8729, 3.6330,

363.8737, 282.8725

0.4178

392.6836,  
428.5499, 339.4956

■ 1.0869, 1.4705,  
0.0000

■ 0.0141, 0.2678,  
0.0000

■ 72.7998, 81.6478,  
49.9529

■ 72.7998, 81.6478,  
49.9529

■ 70.6494, 80.6294,  
39.1161

■ 75.3622, 82.8370,  
62.9398

■ 68.8827, 79.7620,  
30.3084

■ 78.3508, 84.1941,  
78.1788

■ 67.4777, 79.0396,  
23.4046

■ 81.7865, 85.7304,  
95.7716

■ 66.4077, 78.4514,  
18.2638

■ 84.0006, 86.7783,  
106.9303

■ 65.6422, 77.9854,  
14.7252

■ 84.1022, 86.9816,  
106.9642

■ 65.1451, 77.6271,  
12.5992

■ 84.2040, 87.1853,  
106.9982

■ 64.8641, 77.3555,  
11.6101

■ 84.3061, 87.3893,  
107.0322

■ 64.8312, 77.3196,  
11.5072

■ 84.4083, 87.5938,  
107.0662

■ 84.5107, 87.7986,  
107.1004

# Harmonies

## Analogous

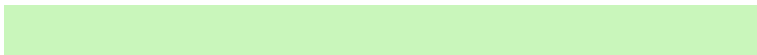
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



81.5596, 81.6478, 49.4237



72.7998, 81.6478, 49.9529



65.8623, 81.6478, 59.5466

# Triad

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



72.7998, 81.6478, 49.9529



66.5315, 81.6478, 129.3114



95.3602, 81.6478, 100.5144

# Complementary

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



72.7998, 81.6478, 49.9529



46.5730, 43.8439, 86.8972

# Split Complementary

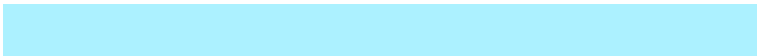
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



90.6638, 81.6478, 126.5955



72.7998, 81.6478, 49.9529



73.7780, 81.6478, 145.2280

# Square

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



72.7998, 81.6478, 49.9529



62.4362, 81.6478, 103.7063



82.6146, 81.6478, 144.1490



95.0481, 81.6478, 75.5756

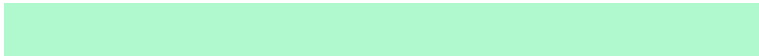


# Rectangle

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



72.7998, 81.6478, 49.9529



63.0042, 81.6478, 71.0461



82.6146, 81.6478, 144.1490



94.3006, 81.6478, 109.5206

# Sweetspot

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



72.8019, 81.6515, 49.9546



91.4656, 98.3951, 90.5526



56.9988, 49.8730, 45.2182



19.4620, 21.0085, 18.7927



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

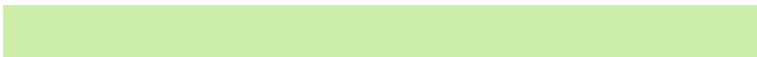
The Same Dimension uses a secret algorithm to generate beautiful new colors.



72.8019, 81.6515, 49.9546



83.6928, 94.8122, 51.0820



63.0445, 77.0499, 49.5807



17.1020, 18.4170, 16.8032



36.1782, 43.1544, 6.4228



3.0160, 3.6027, 0.5364



# Inverse Universe

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



46.5730, 43.8439, 86.8972



48.5562, 44.1654, 100.5733



54.4005, 47.6014, 87.2099



14.9158, 15.2657, 19.8820



8.6390, 3.5022, 45.3485

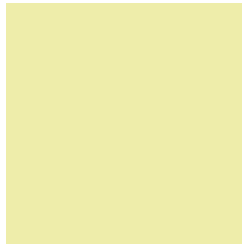


0.7252, 0.3043, 3.7747



# Previews

## White Background



This preview shows how the XYZ color 72.7998, 81.6478, 49.9529 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

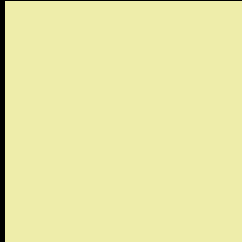
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.7998, 81.6478, 49.9529 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

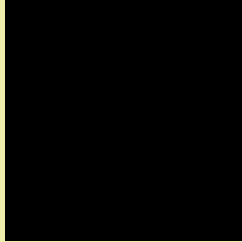
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

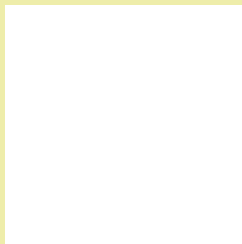
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 72.7998, 81.6478, 49.9529**

## **Background**



This preview shows how black text looks on a background with the XYZ color 72.7998, 81.6478, 49.9529.



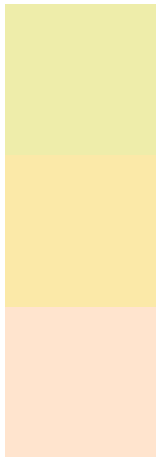
This preview shows how white text looks on a background with the XYZ color 72.7998, 81.6478,



# 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

72.7998, 81.6478, 49.9529

### Protanopia

75.9905, 81.6142, 48.7938

### Deuteranopia

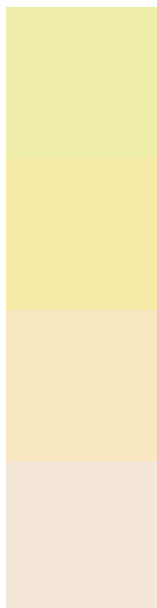
80.1240, 81.2030, 69.8433



## Tritanopia

82.3083, 81.3049, 97.7415

# Trichromacy



## Original Color

72.7998, 81.6478, 49.9529

## Protanomaly

74.5903, 81.3030, 49.2978

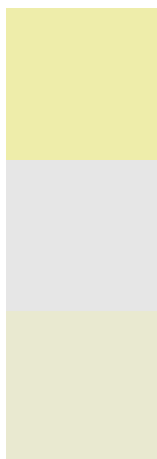
## Deuteranomaly

77.2685, 81.1418, 62.0415

## Tritanomaly

78.5390, 81.4469, 77.9110

# Monochromacy



## Original Color

72.7998, 81.6478, 49.9529

## Achromatopsia

75.2129, 79.1298, 86.1723

## Achromatomaly

74.1284, 80.1555, 71.2391

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.7998, 81.6478, 49.9529 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(238, 237, 170)` looks like.

```
.text, #text, p{  
    color:rgb(238, 237, 170)  
}
```

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(238, 237, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 237, 170) }
```

## Border

The CSS property to change the border of an element to XYZ 72.7998, 81.6478, 49.9529 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(238, 237, 170) }
```



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

```
.border{ border-color:rgb(238, 237, 170) }
```

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

Here you see how a box with a 4 pixel rgb(238, 237, 170) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 237, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 237, 170);  
box-shadow:4px 4px 4px 4px rgb(238, 237,  
170) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.7998, 81.6478, 49.9529 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 237, 170) }
```

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

```
.background{ background-color: rgb(238,  
237, 170) }
```

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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