

# Converting Colors

XYZ(70.7763, 77.6610, 49.3761)

Have a look what the booklet for  
XYZ(70.7763, 77.6610, 49.3761)  
contains.

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# Color

**XYZ(70.8124, 77.6731,  
49.2904)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEE6AA
RGB	238, 230, 170
RGB Percent	93%, 90%, 67%
CMY	0.0667, 0.0980, 0.3333
CMYK	0.00, 0.03, 0.29, 0.07
HSL	53°, 67%, 80%
HSV	53°, 29%, 93%
XYZ	70.8124, 77.6731, 49.2904
YIQ	225.5520, 24.0280, -16.9640

# Conversions

## Conversions Part 2

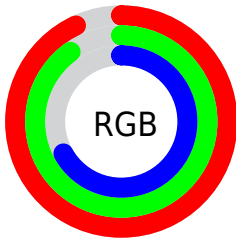
Format	Color
<a href="#">RYB</a>	<a href="#">179, 238, 170</a>
Decimal	<a href="#">15656618</a>
CIELab	<a href="#">90.63, -6.34, 30.28</a>
CIELCh	<a href="#">91, 30.936, 101.828</a>
Yxy	<a href="#">77.6731, 0.3580, 0.3927</a>
Android (android.graphics.Color)	<a href="#">4293846698 (0xFFEEE6AA)</a>
YUV	<a href="#">225.5520, -27.3871, 10.9169</a>
Hunter-Lab	<a href="#">88.1323, -10.8108, 28.5331</a>

# Details

The XYZ color **70.8124, 77.6731, 49.2904** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **47.9303, 46.5586, 87.3495**, and the grayscale version is **72.1462, 75.9034, 82.6588**.

A 20% lighter version of the original color is **90.7275, 98.2710, 86.1379**, and **37.5969, 41.7681, 22.9101** is the 20% darker color. If you saturate the color by 10%, you get **67.9901, 75.3109, 38.2296**, and if you desaturate by 10%, it is **74.0588, 80.2303, 62.5052**.

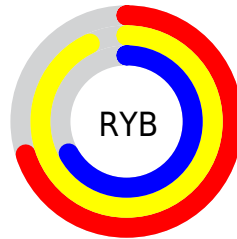
# Distribution



Red (93%)

Green (90%)

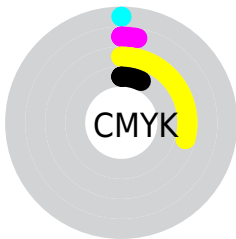
Blue (67%)



Red (70%)

Yellow (93%)

Blue (67%)

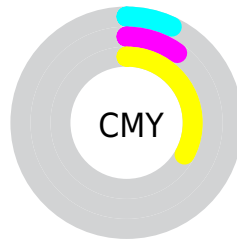


Cyan (0%)

Magenta (3%)

Yellow (29%)

Black (7%)



Cyan (7%)

Magenta (10%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.8124, 77.6731, 49.2904 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 70.8124, 77.6731, 49.2904 by changing the saturation by 10% instead.



70.8124, 77.6731,  
49.2904

70.8124, 77.6731,  
49.2904

452.6194,  
487.0559, 400.5397

52.4711, 57.8055,  
34.4827

119.3865,  
130.0892, 90.5081

37.6065, 41.6523,  
22.9843

150.3501,  
163.4065, 117.7551

25.8533, 28.8291,  
14.3767

186.2517,  
201.9757, 149.9856

16.8460, 18.9516,  
8.2414

227.4569,  
246.1814, 187.6182

10.2194, 11.6353,  
4.1598

274.3309,  
296.4078, 231.0713

5.6080, 6.4959,  
1.7134

327.2391,

2.6466, 3.1489,

353.0395, 280.7636

0.3699

386.5468,  
416.4607, 337.1136

■ 0.9698, 1.2099,  
0.0000

■ 0.0000, 0.0698,  
0.0000

■ 70.8124, 77.6731,  
49.2904

■ 70.8124, 77.6731,  
49.2904

■ 67.9901, 75.3109,  
38.2296

■ 74.0588, 80.2303,  
62.5052

■ 65.5638, 73.1244,  
29.2021

■ 77.7438, 82.9804,  
77.9763

■ 63.5115, 71.1073,  
22.0825

■ 81.8884, 85.9344,  
95.8054

■ 61.8063, 69.2487,  
16.7299

■ 84.8239, 88.4251,  
107.2048

■ 60.4176, 67.5363,  
12.9837

■ 85.6594, 90.0961,  
107.4833

■ 59.3093, 65.9557,  
10.6540

■ 86.5077, 91.7928,  
107.7661

■ 58.4291, 64.4857,  
9.4651

■ 87.3689, 93.5151,  
108.0531

■ 58.3116, 64.2805,  
9.3340

■ 88.2429, 95.2631,  
108.3445

■ 89.0699, 96.9172,  
108.6201

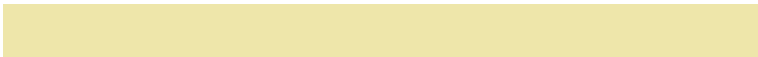
# Harmonies

## Analogous

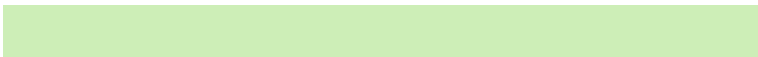
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.5734, 77.6731, 50.1486



70.8124, 77.6731, 49.2904



64.3240, 77.6731, 56.5820

# Triad

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



70.8124, 77.6731, 49.2904



63.2656, 77.6731, 116.3591



88.9147, 77.6731, 98.5988

# Complementary

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



70.8124, 77.6731, 49.2904



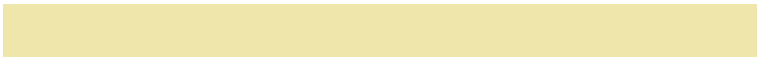
47.9303, 46.5586, 87.3495

# Split Complementary

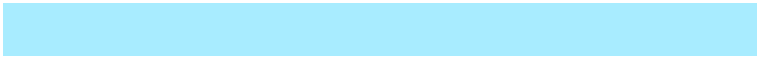
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



84.2204, 77.6731, 120.5415



70.8124, 77.6731, 49.2904



69.2737, 77.6731, 131.9674

# Square

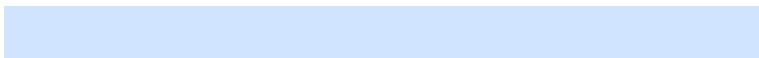
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



70.8124, 77.6731, 49.2904



60.1753, 77.6731, 93.6288



76.9238, 77.6731, 133.6195



89.3990, 77.6731, 76.1204

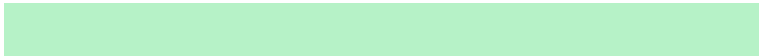


# Rectangle

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



70.8124, 77.6731, 49.2904



61.4491, 77.6731, 65.9752



76.9238, 77.6731, 133.6195



87.7623, 77.6731, 106.3731

# Sweetspot

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



70.8144, 77.6766, 49.2920



90.7179, 96.8997, 90.3033



57.7787, 50.1849, 49.3256



19.2764, 20.6372, 18.7308



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

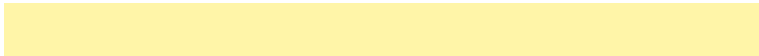


# Same Dimension

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



70.8144, 77.6766, 49.2920



80.9300, 89.2867, 50.1611



65.2906, 78.2078, 49.6857



16.9550, 18.1232, 16.7542



32.5946, 35.9872, 5.2283



2.7560, 3.0827, 0.4498



# Inverse Universe

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



47.9303, 46.5586, 87.3495



50.2810, 47.6150, 101.1483



52.2966, 46.5167, 87.1113



15.0469, 15.5279, 19.9257



8.8889, 4.0020, 45.4318

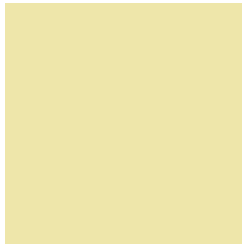


0.7878, 0.4297, 3.7956



# Previews

## White Background



This preview shows how the XYZ color 70.8124, 77.6731, 49.2904 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

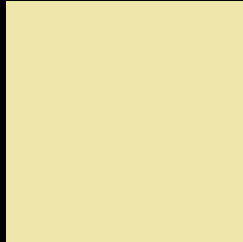
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.8124, 77.6731, 49.2904 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

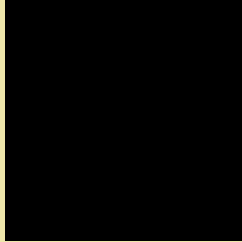
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 70.8124, 77.6731, 49.2904

## Background



This preview shows how black text looks on a background with the XYZ color 70.8124, 77.6731, 49.2904.



This preview shows how white text looks on a background with the XYZ color 70.8124, 77.6731,



# 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

70.8124, 77.6731, 49.2904

### Protanopia

72.5610, 77.7639, 48.7217

### Deuteranopia

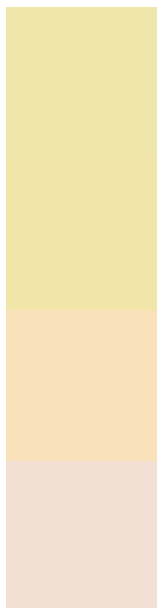
77.2116, 77.4427, 62.5082



## Tritanopia

79.2951, 77.4788, 91.6645

# Trichromacy



## Original Color

70.8124, 77.6731, 49.2904

## Protanomaly

71.7987, 77.7804, 48.7650

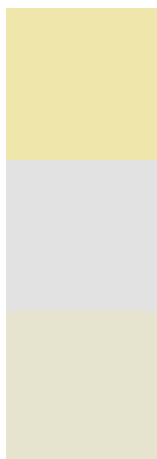
## Deuteranomaly

74.8551, 77.5353, 57.4749

## Tritanomaly

75.6280, 77.1701, 73.8601

# Monochromacy



## Original Color

70.8124, 77.6731, 49.2904

## Achromatopsia

72.2879, 76.0525, 82.8211

## Achromatomaly

71.2428, 76.2174, 69.3491

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.8124, 77.6731, 49.2904 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, 230, 170)` looks like.

```
.text, #text, p{  
    color:rgb(238, 230, 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, 230, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 230, 170) }
```

## Border

The CSS property to change the border of an element to XYZ 70.8124, 77.6731, 49.2904 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, 230, 170) }
```



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

```
.border{ border-color:rgb(238, 230, 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, 230, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 230, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 230, 170);  
box-shadow:4px 4px 4px 4px rgb(238, 230,  
170) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.8124, 77.6731, 49.2904 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 230, 170) }
```

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

```
.background{ background-color: rgb(238,  
230, 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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