

# Converting Colors

XYZ(120.2159, 100.0000,  
33.2186)

Have a look what the booklet for  
XYZ(120.2159, 100.0000, 33.2186)  
contains.

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# **Color**

**XYZ(70.9927, 74.5314,  
31.0664)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FFDD80                      |
| RGB         | 255, 221, 128               |
| RGB Percent | 100%, 87%, 50%              |
| CMY         | 0.0000, 0.1333, 0.4980      |
| CMYK        | 0.00, 0.13, 0.50, 0.00      |
| HSL         | 44°, 100%, 75%              |
| HSV         | 44°, 50%, 100%              |
| XYZ         | 70.9927, 74.5314, 31.0664   |
| YIQ         | 220.5640, 50.1170, -21.7150 |

# Conversions

## Conversions Part 2

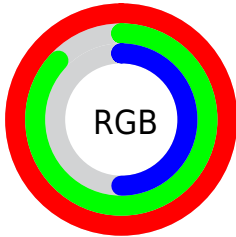
| <b>Format</b>                       | <b>Color</b>                                    |
|-------------------------------------|---|
| <a href="#">RYB</a>                 | <a href="#">174, 255, 128</a>                   |
| Decimal                             | <a href="#">16768384</a>                        |
| CIELab                              | <a href="#">89.17, 0.33, 49.67</a>              |
| CIELCh                              | <a href="#">89, 49.668, 89.624</a>              |
| Yxy                                 | <a href="#">74.5314, 0.4020,<br/>0.4221</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4294958464<br/>(0xFFFFDD80)</a>     |
| YUV                                 | <a href="#">220.5640, -45.6341,<br/>30.2004</a> |
| Hunter-Lab                          | <a href="#">86.3316, -4.2950,<br/>39.0966</a>   |

# Details

The XYZ color **70.9927, 74.5314, 31.0664** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **39.8720, 37.6485, 99.7727**, and the grayscale version is **68.7082, 72.2864, 78.7199**.

A 20% lighter version of the original color is **85.4435, 96.1574, 58.3128**, and **37.7057, 39.5300, 12.4802** is the 20% darker color. If you saturate the color by 10%, you get **67.7556, 70.4141, 22.7217**, and if you desaturate by 10%, it is **74.7285, 78.9710, 41.6595**.

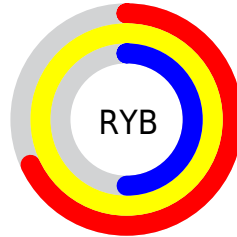
# Distribution



Red (100%)

Green (87%)

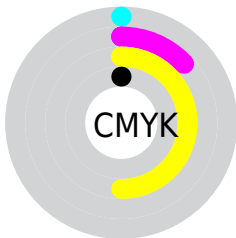
Blue (50%)



Red (68%)

Yellow (100%)

Blue (50%)

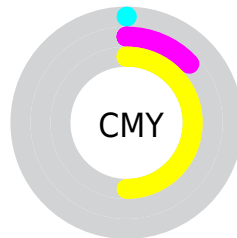


Cyan (0%)

Magenta (13%)

Yellow (50%)

Black (0%)



Cyan (0%)

Magenta (13%)


Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.9927, 74.5314, 31.0664 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 70.9927, 74.5314, 31.0664 by changing the saturation by 10% instead.




 70.9927, 74.5314,  
31.0664

 70.9927, 74.5314,  
31.0664


453.2401,  
476.3054, 321.2048


 52.6188, 55.2291,  
20.3905


 119.6419,  
125.6488, 62.4254

 37.7248, 39.5852,  
12.4923


 150.6479,  
158.2327, 83.9456

 25.9454, 27.2152,  
6.9533


 186.5952,  
196.0126, 109.9177

 16.9153, 17.7349,  
3.3549

227.8493,  
239.3728, 140.7601

 10.2690, 10.7599,  
1.2786

274.7755,  
288.6978, 176.8915

 5.6413, 5.9056,  
0.0442

327.7391,

 2.6668, 2.7878,

344.3720, 218.7304

0.0000

387.1056,  
406.7797, 266.6953

■ 0.9801, 1.0220,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 70.9927, 74.5314,  
31.0664

■ 70.9927, 74.5314,  
31.0664

■ 67.7556, 70.4141,  
22.7217

■ 74.7285, 78.9710,  
41.6595

■ 64.9786, 66.5940,  
16.4509

■ 78.9872, 83.7355,  
54.6488

■ 62.6258, 63.0579,  
12.0611

■ 83.7978, 88.8407,  
70.1747

■ 60.6524, 59.7867,  
9.3207

■ 89.1855, 94.2980,  
88.3656

■ 58.9873, 56.7504,  
7.8594

95.0498, 99.9999,  
108.9000

■ 58.9560, 56.6922,  
7.8354

# Harmonies

## Analogous

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



83.2783, 74.5314, 36.1459



70.9927, 74.5314, 31.0664



59.9424, 74.5314, 35.8914

# Triad

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



70.9927, 74.5314, 31.0664



52.4659, 74.5314, 118.7787



92.8862, 74.5314, 119.7580

# Complementary

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



70.9927, 74.5314, 31.0664



39.8720, 37.6485, 99.7727

# 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.



82.9839, 74.5314, 154.0168



70.9927, 74.5314, 31.0664



59.7061, 74.5314, 153.3473

# Square

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



70.9927, 74.5314, 31.0664



50.0141, 74.5314, 80.7154



70.6872, 74.5314, 167.7661



96.7675, 74.5314, 81.5902

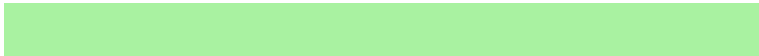


# Rectangle

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



70.9927, 74.5314, 31.0664



54.5411, 74.5314, 45.1658



70.6872, 74.5314, 167.7661



90.0996, 74.5314, 132.4678

# Sweetspot

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



70.9945, 74.5349, 31.0679



86.3122, 91.4175, 78.5715



55.6589, 39.3788, 39.7823



18.2346, 19.3229, 16.0123



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.



70.9945, 74.5349, 31.0679



67.6967, 70.3362, 22.5786



71.4876, 89.4879, 33.9281



19.1258, 20.2198, 19.0391



30.9354, 29.8821, 4.1374



3.1021, 3.0897, 0.4329



# Inverse Universe

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



39.8720, 37.6485, 99.7727



33.3449, 29.6756, 98.5782



39.3868, 29.6790, 98.2601



17.3985, 18.1685, 22.8398



10.6237, 6.1570, 50.0631



1.1198, 0.7702, 4.9029



# Previews

## White Background



This preview shows how the XYZ color 70.9927, 74.5314, 31.0664 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

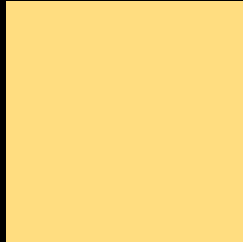
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.9927, 74.5314, 31.0664 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 70.9927, 74.5314, 31.0664**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.9927, 74.5314, 31.0664.



This preview shows how white text looks on a background with the XYZ color 70.9927, 74.5314,



# 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

70.9927, 74.5314, 31.0664

### Protanopia

68.6241, 74.4891, 31.5298

### Deuteranopia

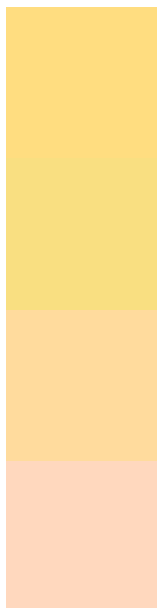
73.9514, 74.4588, 50.5187



## Tritanopia

78.6249, 74.2847, 81.4286

# Trichromacy



## Original Color

70.9927, 74.5314, 31.0664

## Protanomaly

69.4170, 74.5001, 31.4902

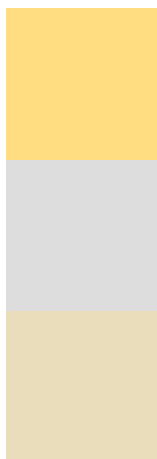
## Deuteranomaly

72.6573, 74.3574, 42.4212

## Tritanomaly

75.0901, 74.0894, 59.0582

# Monochromacy



## Original Color

70.9927, 74.5314, 31.0664

## Achromatopsia

68.7264, 72.3055, 78.7407

## Achromatomaly

68.4304, 72.6244, 57.4250

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.9927, 74.5314, 31.0664 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(255, 221, 128)` looks like.

```
.text, #text, p{  
    color:rgb(255, 221, 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(255, 221, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 221, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 70.9927, 74.5314, 31.0664 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(255, 221, 128) }
```



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

```
.border{ border-color:rgb(255, 221, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 221, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 221, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 221, 128);  
box-shadow:4px 4px 4px 4px rgb(255, 221,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.9927, 74.5314, 31.0664 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 221, 128) }
```

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

```
.background{ background-color: rgb(255,  
221, 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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