

# Converting Colors

XYZ(70.7073, 77.8778, 18.8947)

Have a look what the booklet for  
XYZ(70.7073, 77.8778, 18.8947)  
contains.

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# **Color**

**XYZ(70.7073, 77.8778,  
18.8947)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE550
RGB	255, 229, 80
RGB Percent	100%, 90%, 31%
CMY	0.0000, 0.1019, 0.6863
CMYK	0.00, 0.10, 0.69, 0.00
HSL	51°, 100%, 66%
HSV	51°, 69%, 100%
XYZ	70.7073, 77.8778, 18.8947
YIQ	219.7880, 63.3250, -40.8270

# Conversions

## Conversions Part 2

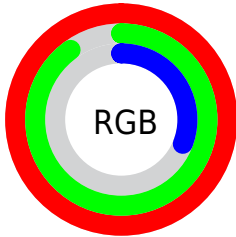
Format	Color
R <sub>Y</sub> B	111, 255, 80
Decimal	16770384
CIE Lab	90.72, -6.97, 72.45
CIE LCh	91, 72.786, 95.494
Yxy	77.8778, 0.4222, 0.4650
Android (android.graphics.Color)	4294960464 (0xFFFFE550)
YUV	219.7880, -68.9155, 30.8809
Hunter-Lab	88.2484, -11.4151, 49.0794

# Details

The XYZ color **70.7073, 77.8778, 18.8947** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **26.5124, 19.2332, 96.9222**, and the grayscale version is **68.3161, 71.8738, 78.2706**.

A 20% lighter version of the original color is **81.5154, 94.5861, 37.6275**, and **37.6691, 41.8852, 6.2429** is the 20% darker color. If you saturate the color by 10%, you get **68.9020, 75.5000, 14.4940**, and if you desaturate by 10%, it is **72.8963, 80.4517, 25.1878**.

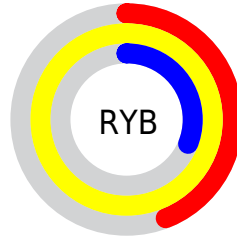
# Distribution



Red (100%)

Green (90%)

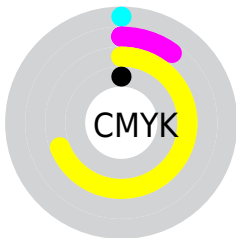
Blue (31%)



Red (44%)

Yellow (100%)

Blue (31%)

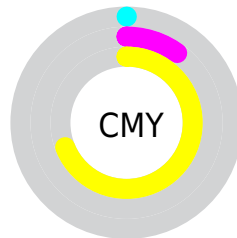


Cyan (0%)

Magenta (10%)

Yellow (69%)

Black (0%)



Cyan (0%)

Magenta (10%)

Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.7073, 77.8778, 18.8947 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 70.7073, 77.8778, 18.8947 by changing the saturation by 10% instead.



70.7073, 77.8778,  
18.8947

70.7073, 77.8778,  
18.8947

452.2573,  
487.7517, 258.2702

52.3850, 57.9736,  
11.4182

119.2376,  
130.3778, 42.3904

37.5376, 41.7874,  
6.2311

150.1764,  
163.7425, 59.2467

25.7996, 28.9349,  
2.9151

186.0515,  
202.3627, 80.0666

16.8057, 19.0316,  
1.0514

227.2281,  
246.6229, 105.2688

10.1905, 11.6931,  
0.0000

274.0716,  
296.9076, 135.2716

5.5887, 6.5351,  
0.0000

326.9474,

2.6349, 3.1731,

353.6010, 170.4938

0.0000

386.2209,  
417.0876, 211.3538

■ 0.9638, 1.2227,  
0.0000

■ 0.0000, 0.0802,  
0.0000

■ 70.7073, 77.8778,  
18.8947

■ 70.7073, 77.8778,  
18.8947

■ 68.9020, 75.5000,  
14.4940

■ 72.8963, 80.4517,  
25.1878

■ 67.4321, 73.2897,  
11.7550


■ 75.5001, 83.2253,  
33.5593


■ 66.2381, 71.2259,  
10.3575

■ 78.5524, 86.2153,  
44.1782

■ 66.0844, 70.9492,  
10.2115

■ 82.0818, 89.4335,  
57.1948

 86.1145, 92.8905,  
72.7465

 90.6748, 96.5962,  
90.9602

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



89.5718, 77.8778, 22.2361



70.7073, 77.8778, 18.8947



55.4369, 77.8778, 26.4212

# Triad

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



70.7073, 77.8778, 18.8947



48.9408, 77.8778, 157.6665



110.8148, 77.8778, 133.7570

# Complementary

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



70.7073, 77.8778, 18.8947



26.5124, 19.2332, 96.9222

# 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.



96.3524, 77.8778, 195.9407



70.7073, 77.8778, 18.8947



60.3822, 77.8778, 213.2663

# Square

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



70.7073, 77.8778, 18.8947



44.2655, 77.8778, 94.7991



77.4356, 77.8778, 229.5745



114.7923, 77.8778, 75.5219



# Rectangle

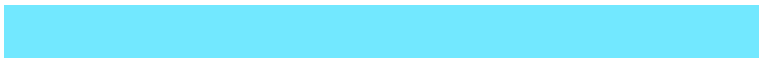
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.7073, 77.8778, 18.8947



48.6776, 77.8778, 39.6113



77.4356, 77.8778, 229.5745



106.9140, 77.8778, 155.5273

# Sweetspot

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



70.7091, 77.8815, 18.8963



85.1105, 92.0479, 68.8175



46.7236, 28.0438, 16.6555



17.9750, 19.4959, 13.7917



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.



70.7091, 77.8815, 18.8963



68.3711, 74.7364, 13.3965



59.3923, 83.5353, 20.5840



19.3178, 20.6038, 19.1031



34.6181, 37.2474, 5.3649



3.4304, 3.7462, 0.5423



# Inverse Universe

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



26.5124, 19.2332, 96.9222



21.8232, 13.1005, 95.9862



31.9465, 18.6430, 96.5219



17.2207, 17.8130, 22.7806



9.8565, 4.6226, 49.8073



1.0211, 0.5729, 4.8700



# Previews

## White Background



This preview shows how the XYZ color 70.7073, 77.8778, 18.8947 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

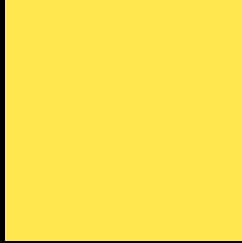
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.7073, 77.8778, 18.8947 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 70.7073, 77.8778, 18.8947**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.7073, 77.8778, 18.8947.



This preview shows how white text looks on a background with the XYZ color 70.7073, 77.8778,



# 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

70.7073, 77.8778, 18.8947

### Protanopia

70.8990, 77.9545, 19.9043

### Deuteranopia

76.4429, 77.9902, 55.8244



## Tritanopia

80.8544, 77.6362, 85.5867

# Trichromacy



## Original Color

70.7073, 77.8778, 18.8947

## Protanomaly

70.8206, 77.9232, 19.4916

## Deuteranomaly

73.6247, 77.7280, 38.3167

## Tritanomaly

75.3655, 77.1305, 51.4729

# Monochromacy



## Original Color

70.7073, 77.8778, 18.8947

## Achromatopsia

68.0267, 71.5694, 77.9390

## Achromatomaly

67.1534, 72.9636, 48.0801

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.7073, 77.8778, 18.8947 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, 229, 80)` looks like.

```
.text, #text, p{  
    color:rgb(255, 229, 80)  
}
```

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, 229, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 229, 80) }
```

## Border

The CSS property to change the border of an element to XYZ 70.7073, 77.8778, 18.8947 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, 229, 80) }
```



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

```
.border{ border-color:rgb(255, 229, 80) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 229, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 229, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 229, 80);  
box-shadow:4px 4px 4px 4px rgb(255, 229,  
80) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.7073, 77.8778, 18.8947 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 229, 80) }
```

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

```
.background{ background-color: rgb(255,  
229, 80) }
```

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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