

# Converting Colors

XYZ(70.5638, 77.8204, 18.1392)

Have a look what the booklet for  
XYZ(70.5638, 77.8204, 18.1392)  
contains.

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# **Color**

**XYZ(70.5638, 77.8204,  
18.1392)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE54C
RGB	255, 229, 76
RGB Percent	100%, 90%, 30%
CMY	0.0000, 0.1019, 0.7019
CMYK	0.00, 0.10, 0.70, 0.00
HSL	51°, 100%, 65%
HSV	51°, 70%, 100%
XYZ	70.5638, 77.8204, 18.1392
YIQ	219.3320, 64.6090, -42.0710

# Conversions

## Conversions Part 2

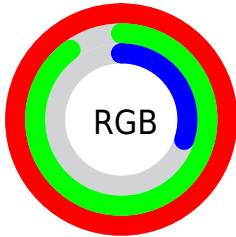
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">106, 255, 76</a>
Decimal	<a href="#">16770380</a>
CIELab	<a href="#">90.70, -7.16, 73.91</a>
CIELCh	<a href="#">91, 74.260, 95.535</a>
Yxy	<a href="#">77.8204, 0.4237, 0.4673</a>
Android (android.graphics.Color)	<a href="#">4294960460 (0xFFFFE54C)</a>
YUV	<a href="#">219.3320, -70.6627, 31.2808</a>
Hunter-Lab	<a href="#">88.2159, -11.5958, 49.5597</a>

# Details

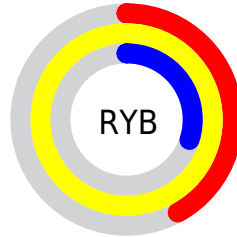
The XYZ color **70.5638, 77.8204, 18.1392** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light washed yellow. A complement of this color would be **25.7819, 18.2589, 96.7726**, and the grayscale version is **68.0088, 71.5505, 77.9185**.

A 20% lighter version of the original color is **81.2336, 94.4735, 36.1440**, and **37.3842, 41.7414, 6.0865** is the 20% darker color. If you saturate the color by 10%, you get **68.8338, 75.5094, 14.0219**, and if you desaturate by 10%, it is **72.6703, 80.3230, 24.1158**.

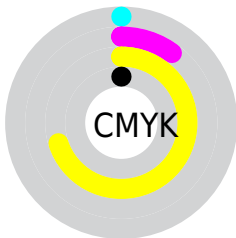
# Distribution



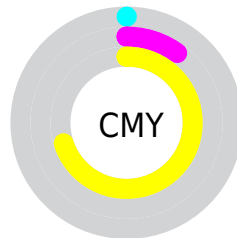
- Red (100%)
- Green (90%)
- Blue (30%)



- Red (42%)
- Yellow (100%)
- Blue (30%)



- Cyan (0%)
- Magenta (10%)
- Yellow (70%)
- Black (0%)



- Cyan (0%)
- Magenta (10%)
- Yellow (70%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.5638, 77.8204, 18.1392 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 70.5638, 77.8204, 18.1392 by changing the saturation by 10% instead.



70.5638, 77.8204,  
18.1392

70.5638, 77.8204,  
18.1392

451.7627,  
487.5567, 253.9169

52.2676, 57.9265,  
10.8795

119.0343,  
130.2969, 41.0915

37.4435, 41.7495,  
5.8727

149.9393,  
163.6483, 57.6212

25.7263, 28.9052,  
2.7003

185.7779,  
202.2542, 78.0780

16.7506, 19.0091,  
0.9436

226.9155,  
246.4992, 102.8804

10.1510, 11.6769,  
0.0000

273.7174,  
296.7675, 132.4469

5.5623, 6.5241,  
0.0000

326.5490,

2.6189, 3.1663,

353.4436, 167.1961

0.0000

385.7757,  
416.9118, 207.5466

■ 0.9556, 1.2191,  
0.0000

■ 0.0000, 0.0773,  
0.0000

■ 70.5638, 77.8204,  
18.1392

■ 70.5638, 77.8204,  
18.1392

■ 68.8338, 75.5094,  
14.0219

■ 72.6703, 80.3230,  
24.1158

■ 67.4306, 73.3608,  
11.5261

■ 75.1852, 83.0211,  
32.1424

■ 66.3033, 71.3870,  
10.2845

■ 78.1428, 85.9317,  
42.3910

■ 81.5722, 89.0666,  
55.0143

■ 85.5000, 92.4367,  
70.1516

■ 89.9506, 96.0520,  
87.9312

94.9469, 99.9217,  
108.4728

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



89.8188, 77.8204, 21.4481



70.5638, 77.8204, 18.1392



55.0351, 77.8204, 25.6570

# Triad

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



70.5638, 77.8204, 18.1392



48.4726, 77.8204, 159.4573



111.6062, 77.8204, 134.7298

# Complementary

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



70.5638, 77.8204, 18.1392



25.7819, 18.2589, 96.7726

# 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.



96.8052, 77.8204, 198.6692



70.5638, 77.8204, 18.1392



60.0976, 77.8204, 216.6530

# Square

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



70.5638, 77.8204, 18.1392



43.7280, 77.8204, 95.0204



77.4757, 77.8204, 233.4000



115.6669, 77.8204, 75.2167



# Rectangle

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



70.5638, 77.8204, 18.1392



48.1838, 77.8204, 38.9191



77.4757, 77.8204, 233.4000



107.6133, 77.8204, 157.0780

# Sweetspot

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



70.5656, 77.8241, 18.1408



85.1649, 92.1567, 68.8357



46.2654, 27.4058, 15.6450



17.9882, 19.5222, 13.7961



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.



70.5656, 77.8241, 18.1408



68.2642, 74.6737, 12.8951



58.8917, 83.2938, 19.8118



19.3232, 20.6145, 19.1049



34.7310, 37.4732, 5.4025



3.4403, 3.7660, 0.5456



# Inverse Universe

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



25.7819, 18.2589, 96.7726



21.2677, 12.3098, 95.8628



31.2243, 17.8487, 96.4065



17.2158, 17.8032, 22.7789



9.8414, 4.5924, 49.8023



1.0188, 0.5683, 4.8693



# Previews

## White Background



This preview shows how the XYZ color 70.5638, 77.8204, 18.1392 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

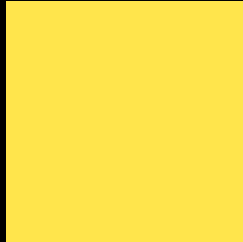
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.5638, 77.8204, 18.1392 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 70.5638, 77.8204, 18.1392**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.5638, 77.8204, 18.1392.



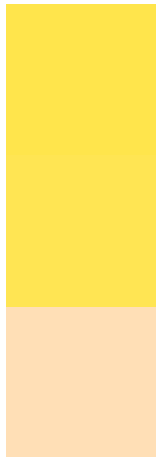
This preview shows how white text looks on a background with the XYZ color 70.5638, 77.8204,



# 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

70.5638, 77.8204, 18.1392

### Protanopia

70.8206, 77.9232, 19.4916

### Deuteranopia

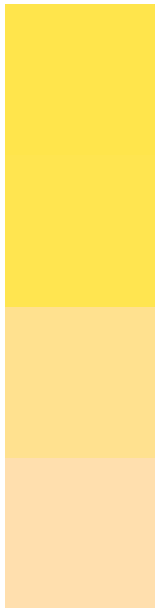
76.0712, 77.4128, 55.1887



## Tritanopia

80.8544, 77.6362, 85.5867

# Trichromacy



## Original Color

70.5638, 77.8204, 18.1392

## Protanomaly

70.7073, 77.8778, 18.8947

## Deuteranomaly

73.1231, 77.0936, 37.0131

## Tritanomaly

75.2677, 77.0913, 50.9575

# Monochromacy



## Original Color

70.5638, 77.8204, 18.1392

## Achromatopsia

67.3311, 70.8376, 77.1421

## Achromatomaly

66.6414, 72.7212, 47.0834

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.5638, 77.8204, 18.1392 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, 76)` looks like.

```
.text, #text, p{  
    color:rgb(255, 229, 76)  
}
```

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, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 229, 76) }
```

## Border

The CSS property to change the border of an element to XYZ 70.5638, 77.8204, 18.1392 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, 76) }
```



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

```
.border{ border-color:rgb(255, 229, 76) }
```

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, 76)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 229, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 229, 76);  
box-shadow:4px 4px 4px 4px rgb(255, 229,  
76) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.5638, 77.8204, 18.1392 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, 76) }
```

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

```
.background{ background-color: rgb(255,  
229, 76) }
```

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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