

# Converting Colors

XYZ(70.1366, 77.2140, 17.2371)

Have a look what the booklet for  
XYZ(70.1366, 77.2140, 17.2371)  
contains.

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# **Color**

**XYZ(70.1207, 77.2017,  
17.1669)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE447
RGB	255, 228, 71
RGB Percent	100%, 89%, 28%
CMY	0.0000, 0.1059, 0.7215
CMYK	0.00, 0.11, 0.72, 0.00
HSL	51°, 100%, 64%
HSV	51°, 72%, 100%
XYZ	70.1207, 77.2017, 17.1669
YIQ	218.1750, 66.4890, -43.1030

# Conversions

## Conversions Part 2

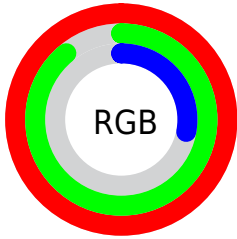
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">103, 255, 71</a>
Decimal	<a href="#">16770119</a>
CIELab	<a href="#">90.41, -6.89, 75.43</a>
CIELCh	<a href="#">90, 75.741, 95.219</a>
Yxy	<a href="#">77.2017, 0.4263, 0.4693</a>
Android (android.graphics.Color)	<a href="#">4294960199</a> (0xFFFFE447)
YUV	<a href="#">218.1750, -72.5573, 32.2955</a>
Hunter-Lab	<a href="#">87.8645, -11.3101, 49.9211</a>

# Details

The XYZ color **70.1207, 77.2017, 17.1669** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed yellow. A complement of this color would be **25.0163, 17.2947, 96.6268**, and the grayscale version is **67.2163, 70.7168, 77.0106**.

A 20% lighter version of the original color is **80.9624, 94.3650, 34.7160**, and **37.1917, 41.3565, 6.0224** is the 20% darker color. If you saturate the color by 10%, you get **68.4503, 74.9076, 13.3849**, and if you desaturate by 10%, it is **72.1600, 79.6850, 22.7662**.

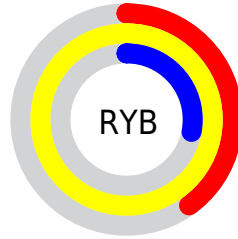
# Distribution



Red (100%)

Green (89%)

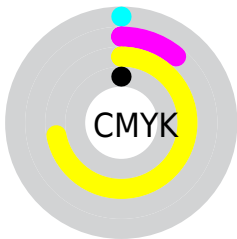
Blue (28%)



Red (40%)

Yellow (100%)

Blue (28%)

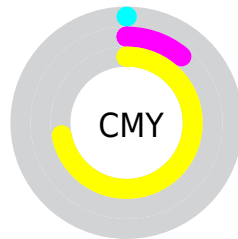


Cyan (0%)

Magenta (11%)

Yellow (72%)

Black (0%)



Cyan (0%)

Magenta (11%)

Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.1207, 77.2017, 17.1669 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 70.1207, 77.2017, 17.1669 by changing the saturation by 10% instead.



70.1207, 77.2017,  
17.1669

70.1207, 77.2017,  
17.1669

450.2335,  
485.4515, 248.2088

51.9049, 57.4184,  
10.1903

118.4062,  
129.4242, 39.4071

37.1532, 41.3413,  
5.4181

149.2066,  
162.6321, 55.5078

25.5004, 28.5859,  
2.4316

184.9326,  
201.0838, 75.4870

16.5810, 18.7677,  
0.8036

225.9495,  
245.1636, 99.7632

10.0296, 11.5026,  
0.0000

272.6227,  
295.2558, 128.7549

5.4810, 6.4059,  
0.0000

325.3175,

2.5698, 3.0935,

351.7450, 162.8807

0.0000

384.3993,  
415.0154, 202.5592

■ 0.9306, 1.1807,  
0.0000

■ 0.0000, 0.0459,  
0.0000

■ 70.1207, 77.2017,  
17.1669

■ 70.1207, 77.2017,  
17.1669

■ 68.4503, 74.9076,  
13.3849

■ 72.1600, 79.6850,  
22.7662

■ 67.0972, 72.7728,  
11.1722

■ 74.6013, 82.3620,  
30.3796

■ 66.2049, 71.1903,  
10.2517

■ 77.4797, 85.2498,  
40.1834

■ 80.8248, 88.3607,  
52.3332

■ 84.6637, 91.7055,  
66.9708

■ 89.0212, 95.2946,  
84.2264

■ 93.9206, 99.1372,  
104.2213

■ 95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



89.6929, 77.2017, 20.5414



70.1207, 77.2017, 17.1669



54.3475, 77.2017, 24.4696

# Triad

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



70.1207, 77.2017, 17.1669



47.5074, 77.2017, 159.5250



111.5761, 77.2017, 135.6806

# Complementary

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



70.1207, 77.2017, 17.1669



25.0163, 17.2947, 96.6268

# 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.



96.4010, 77.2017, 201.0153



70.1207, 77.2017, 17.1669



59.1719, 77.2017, 218.4299

# Square

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



70.1207, 77.2017, 17.1669



42.8048, 77.2017, 93.8895



76.7344, 77.2017, 236.1938



115.8566, 77.2017, 74.9408



# Rectangle

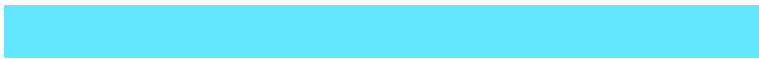
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.1207, 77.2017, 17.1669



47.3882, 77.2017, 37.5611



76.7344, 77.2017, 236.1938



107.4661, 77.2017, 158.5271

# Sweetspot

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



70.1225, 77.2054, 17.1684



84.7277, 91.7598, 67.2178



45.7266, 26.6603, 14.4414



17.9012, 19.4409, 13.4812



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.



70.1225, 77.2054, 17.1684



67.7586, 73.8547, 12.1340



58.2830, 82.9992, 18.9108



19.3208, 20.6097, 19.1041



34.6803, 37.3718, 5.3856



3.4359, 3.7571, 0.5441



# Inverse Universe

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



25.0163, 17.2947, 96.6268



20.6125, 11.4068, 95.7231



30.3602, 16.9115, 96.2711



17.2180, 17.8076, 22.7797



9.8481, 4.6058, 49.8045



1.0198, 0.5703, 4.8696



# Previews

## White Background



This preview shows how the XYZ color 70.1207, 77.2017, 17.1669 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

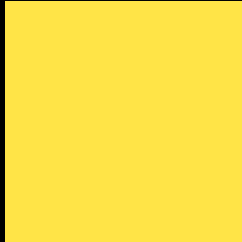
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.1207, 77.2017, 17.1669 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 70.1207, 77.2017, 17.1669

## Background



This preview shows how black text looks on a background with the XYZ color 70.1207, 77.2017, 17.1669.



This preview shows how white text looks on a background with the XYZ color 70.1207, 77.2017,



# 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

70.1207, 77.2017, 17.1669

### Protanopia

70.1207, 77.2017, 17.1669

### Deuteranopia

75.7644, 77.2900, 53.5731



## Tritanopia

80.4543, 77.0600, 84.7624

# Trichromacy



## Original Color

70.1207, 77.2017, 17.1669

## Protanomaly

70.1207, 77.2017, 17.1669

## Deuteranomaly

72.8988, 77.0039, 35.8320

## Tritanomaly

74.8077, 76.4811, 49.8493

# Monochromacy



## Original Color

70.1207, 77.2017, 17.1669

## Achromatopsia

66.6397, 70.1102, 76.3500

## Achromatomaly

65.8678, 71.9481, 46.0131

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.1207, 77.2017, 17.1669 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, 228, 71)` looks like.

```
.text, #text, p{  
    color:rgb(255, 228, 71)  
}
```

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, 228, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 228, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 70.1207, 77.2017, 17.1669 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, 228, 71) }
```



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

```
.border{ border-color:rgb(255, 228, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 228, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 228, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 228, 71);  
box-shadow:4px 4px 4px 4px rgb(255, 228,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.1207, 77.2017, 17.1669 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 228, 71) }
```

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

```
.background{ background-color: rgb(255,  
228, 71) }
```

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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