

# Converting Colors

XYZ(72.4505, 86.1012, 20.6638)

Have a look what the booklet for  
XYZ(72.4505, 86.1012, 20.6638)  
contains.

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# **Color**

**XYZ(72.4470, 86.0984,  
20.5849)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F6F651
RGB	246, 246, 81
RGB Percent	96%, 96%, 32%
CMY	0.0353, 0.0353, 0.6823
CMYK	0.00, 0.00, 0.67, 0.04
HSL	60°, 90%, 64%
HSV	60°, 67%, 96%
XYZ	72.4470, 86.0984, 20.5849
YIQ	227.1900, 52.9650, -51.3150

# Conversions

## Conversions Part 2

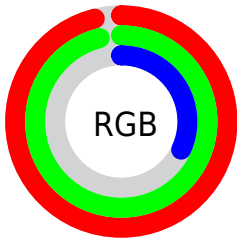
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	81, 246, 81
Decimal	16184913
CIE Lab	94.35, -18.93, 75.48
CIE LCh	94, 77.817, 104.080
Yxy	86.0984, 0.4044, 0.4806
Android (android.graphics.Color)	4294374993 (0xFFFF6F651)
YUV	227.1900, -72.0717, 16.4964
Hunter-Lab	92.7892, -23.0138, 51.7992

# Details

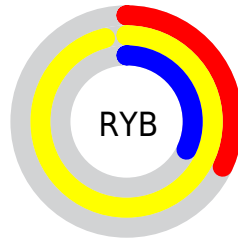
The XYZ color **72.4470, 86.0984, 20.5849** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **22.9729, 14.2898, 88.7415**, and the grayscale version is **73.6354, 77.4702, 84.3650**.

A 20% lighter version of the original color is **81.6602, 94.6441, 38.3903**, and **38.6632, 47.2660, 7.0855** is the 20% darker color. If you saturate the color by 10%, you get **71.6870, 85.7975, 16.5758**, and if you desaturate by 10%, it is **73.5450, 86.5409, 26.3564**.

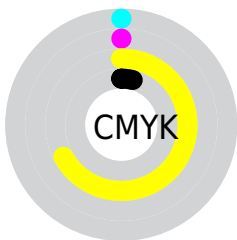
# Distribution



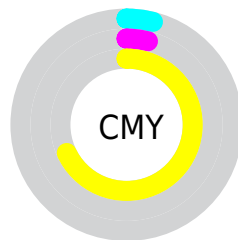
- Red (96%)
- Green (96%)
- Blue (32%)



- Red (32%)
- Yellow (96%)
- Blue (32%)



- Cyan (0%)
- Magenta (0%)
- Yellow (67%)
- Black (4%)




- Cyan (4%)
- Magenta (4%)
- Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.4470, 86.0984, 20.5849 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 72.4470, 86.0984, 20.5849 by changing the saturation by 10% instead.





 72.4470, 86.0984,  
20.5849


 72.4470, 86.0984,  
20.5849


458.2295,  
515.2556, 267.7724

 53.8107, 64.7493,  
12.6326


 121.6992,  
141.9068, 45.2674


 38.6804, 47.2579,  
7.0483


 153.0458,  
177.1349, 62.8348

 26.6908, 33.2396,  
3.4134


 189.3598,  
217.7582, 84.4443

 17.4765, 22.3100,  
1.3094

 231.0067,  
264.1610, 110.5144

 10.6722, 14.0849,  
0.0695

278.3517,  
316.7278, 141.4638

 5.9125, 8.1797,  
0.0000

331.7603,

 2.8321, 4.2102,

375.8429, 177.7108

0.0000

391.5978,  
441.8907, 219.6742

■ 1.0656, 1.7918,  
0.0000

■ 0.0000, 0.4821,  
0.0000

■ 72.4470, 86.0984,  
20.5849

■ 72.4470, 86.0984,  
20.5849

■ 71.6870, 85.7975,  
16.5758

■ 73.5450, 86.5409,  
26.3564

■ 71.2209, 85.6111,  
14.1235

■ 75.0075, 87.1259,  
34.0557

■ 71.0019, 85.5234,  
12.9723

■ 76.8650, 87.8689,  
43.8349

■ 70.9623, 85.5076,  
12.7645

■ 79.1431, 88.7802,  
55.8297

81.8656, 89.8693,  
70.1641

85.0542, 91.1448,  
86.9532

88.7294, 92.6148,  
106.3042

89.0166, 92.7298,  
107.8147

89.0169, 92.7300,  
107.8147

# Harmonies

## Analogous

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



93.3523, 86.0984, 20.9349



72.4470, 86.0984, 20.5849



56.9532, 86.0984, 33.0161

# Triad

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



72.4470, 86.0984, 20.5849



56.2399, 86.0984, 198.6899



126.8514, 86.0984, 128.9692

# Complementary

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



72.4470, 86.0984, 20.5849



22.9729, 14.2898, 88.7415

# 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.



113.0742, 86.0984, 203.0314



72.4470, 86.0984, 20.5849



71.3043, 86.0984, 253.5666

# Square

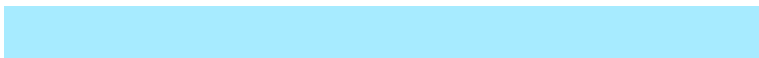
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



72.4470, 86.0984, 20.5849



48.7321, 86.0984, 124.6054



91.9986, 86.0984, 255.4273



127.2991, 86.0984, 68.4559



# Rectangle

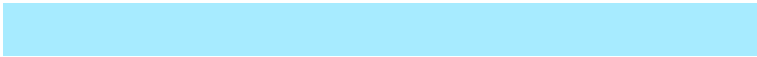
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



72.4470, 86.0984, 20.5849



50.7655, 86.0984, 51.9205



91.9986, 86.0984, 255.4273



123.5326, 86.0984, 153.5501

# Sweetspot

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



72.4490, 86.1024, 20.5867



87.8983, 97.1392, 71.2438



42.4366, 26.0739, 10.5818



18.6340, 20.7198, 14.3020



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.



72.4490, 86.1024, 20.5867



77.5943, 93.0173, 16.9965



49.6513, 74.3498, 19.5198



17.9147, 19.3136, 17.5813



37.8747, 45.6379, 6.8128



3.3288, 4.0111, 0.5988



# Inverse Universe

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



22.9729, 14.2898, 88.7415



20.5995, 10.2917, 95.5085



34.7865, 20.3800, 89.2943



15.5813, 15.9268, 20.7955



8.8790, 3.5516, 46.7556

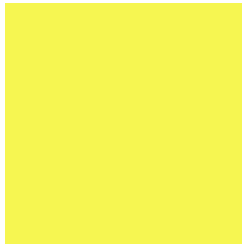


0.7804, 0.3122, 4.1094



# Previews

## White Background



This preview shows how the XYZ color 72.4470, 86.0984, 20.5849 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

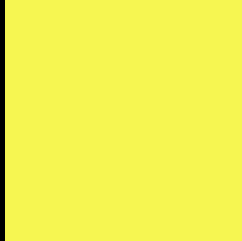
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.4470, 86.0984, 20.5849 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

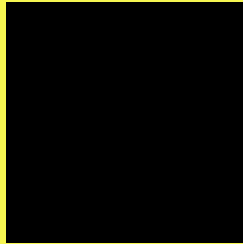
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 72.4470, 86.0984, 20.5849**

## **Background**



This preview shows how black text looks on a background with the XYZ color 72.4470, 86.0984, 20.5849.



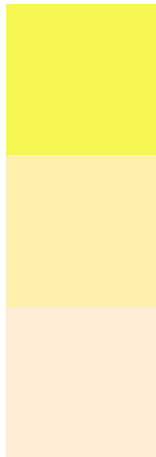
This preview shows how white text looks on a background with the XYZ color 72.4470, 86.0984,



# 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

72.4470, 86.0984, 20.5849

### Protanopia

79.5529, 85.9716, 51.4310

### Deuteranopia

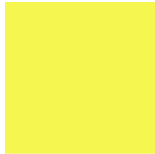
83.2457, 86.0550, 75.1735



## Tritanopia

86.5780, 85.5658, 98.3389

# Trichromacy



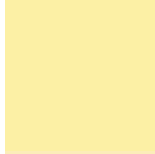
## Original Color

72.4470, 86.0984, 20.5849



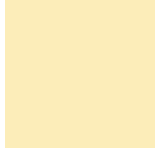
## Protanomaly

76.5572, 86.0638, 37.0031



## Deuteranomaly

78.0965, 85.7322, 48.0292



## Tritanomaly

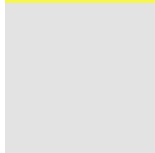
79.1860, 84.7666, 58.0870

# Monochromacy



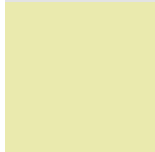
## Original Color

72.4470, 86.0984, 20.5849



## Achromatopsia

73.0128, 76.8151, 83.6517



## Achromatomaly

70.9945, 79.3941, 51.6272

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.4470, 86.0984, 20.5849 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(246, 246, 81)` looks like.

```
.text, #text, p{  
    color:rgb(246, 246, 81)  
}
```

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(246, 246, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 246, 81) }
```

## Border

The CSS property to change the border of an element to XYZ 72.4470, 86.0984, 20.5849 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(246, 246, 81) }
```



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

```
.border{ border-color:rgb(246, 246, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(246, 246, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 246, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 246, 81);  
box-shadow:4px 4px 4px 4px rgb(246, 246,  
81) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.4470, 86.0984, 20.5849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 246, 81) }
```

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

```
.background{ background-color: rgb(246,  
246, 81) }
```

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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